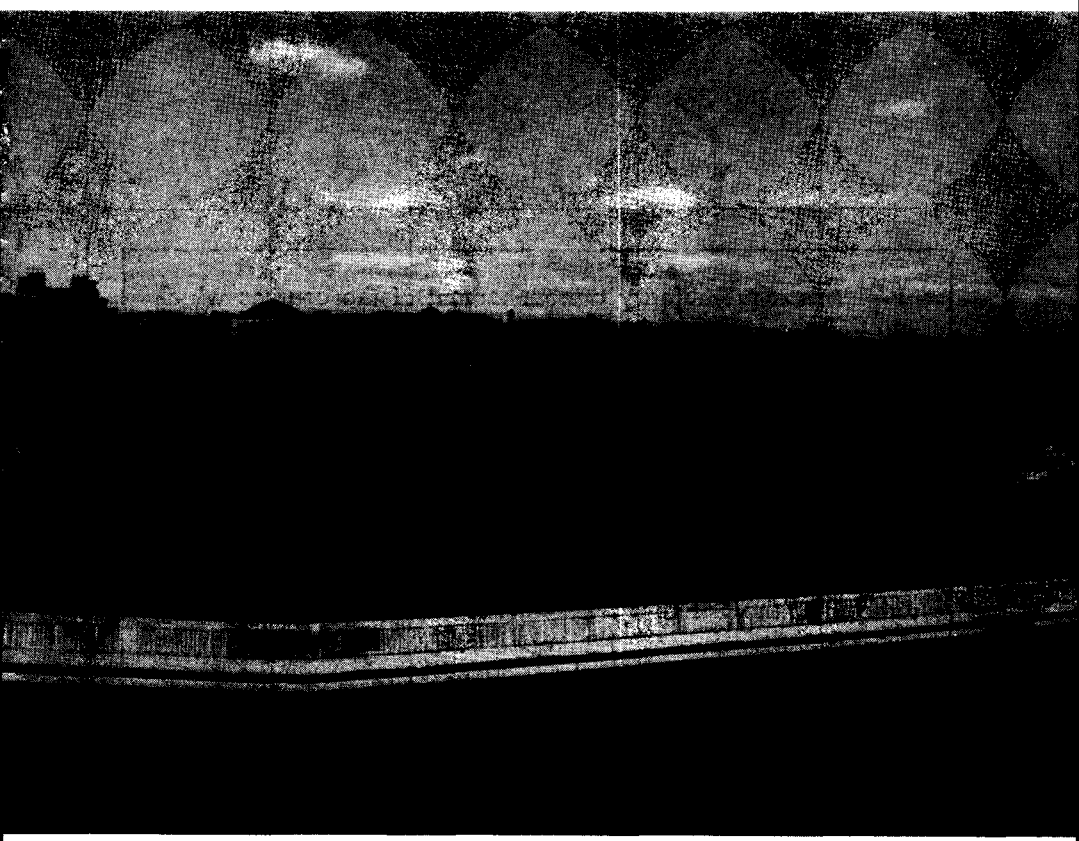


12-20-11

SUMMER SESSION COURSES



1942 Preliminary Announcement

THE *Bulletin* OF

THE UNIVERSITY
OF MINNESOTA

X LIV-71

This is a preliminary announcement of the courses which will be offered in the 1942 Summer Session at the University of Minnesota. This announcement is subject to possible revision and change without notice. We hope that you will read this bulletin and pass it on to any of your friends who may be interested.

The complete Summer Session Bulletin will be issued in March, and copies of that bulletin or additional copies of the preliminary bulletin may be obtained by addressing the director of the Summer Session, 700 Administration Building, University of Minnesota, Minneapolis.

Vol. XLIV

No. 71

December 28, 1941

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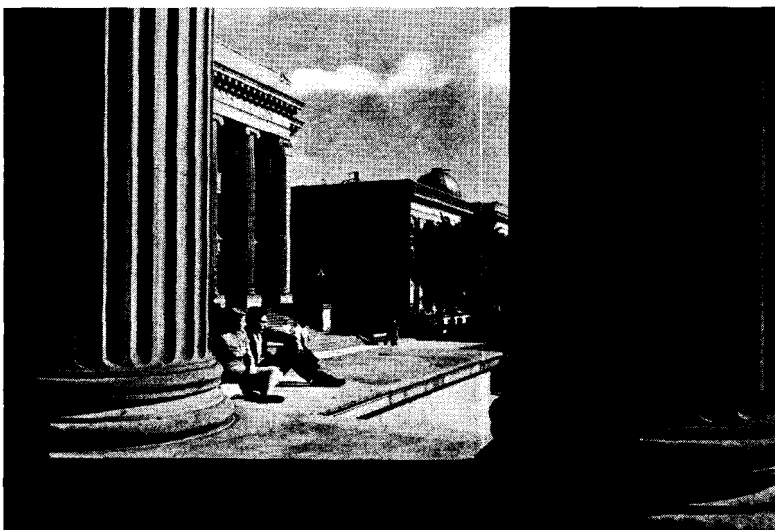
THE SUMMER SESSION FOR 1942

GENERAL INFORMATION

The University of Minnesota, located midway between the Twin Cities of Minneapolis and St. Paul, yet within easy reach of the vast outdoor playground of northern Minnesota, provides an ideal place to enjoy a profitable summer of study and healthful relaxation.

On its Main campus situated on the north bank of the Mississippi River in Minneapolis, the University places at the disposal of the Summer Session student the unexcelled advantages of a great educational institution—its faculty, libraries, laboratories, observatory, and museums—and in addition the recreational resources of its several swimming pools, golf course, and tennis courts. These factors, plus the added cultural advantages of two large metropolitan centers, combine to offer attractions for the Summer Session students that are unique with the University of Minnesota.

Courses in agriculture and home economics are given on the University Farm campus in St. Paul, three miles from the Main campus in Minneapolis. The Farm campus offers all of the ad-



Vista from Colonnade of Northrop Memorial Auditorium



Exterior of Library

vantages of the Main campus, being connected with the latter by an intercampus trolley line which gives regular service free to students enrolled for classes on both campuses. The Como-Harriet inter-urban line also connects the campus with the two cities, thus making available all their advantages. The College of Agriculture, Forestry, and Home Economics has its own library, laboratories, and recreational facilities.

DATES OF THE SUMMER SESSION

The Summer Session consists of two terms. The first term, of six weeks, will begin with registration, Monday and Tuesday, June 15-16. Classes will begin Wednesday, June 17, at 8:00 a.m. The first term will close Friday, July 24. Registration and payment of fees for the second term will close at 4:00 p.m. on Monday, July 27. Classes for this term will open Monday, July 27, and the Summer Session will be brought to a close on Friday, August 28.

FACULTY

The instructional staff for the 1942 Summer Session numbers more than four hundred members, some of whom are eminent visiting professors. The University of Minnesota takes for granted the fact that the students planning to attend its classes expect to become acquainted with, and study under, the regular faculty and therefore many of its most outstanding scholars will be present to teach and to direct research.

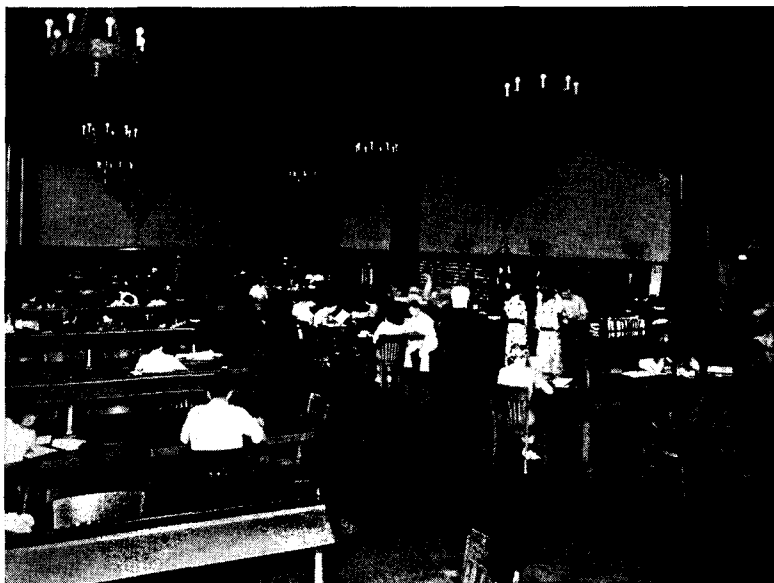
LIBRARIES

Students in the Summer Session enjoy all of the library privileges of regular session students. The University of Minnesota Library is one of the finest college libraries in existence today. It includes over 1,200,000 volumes and many periodicals and pamphlets, and in scope takes in every subject in the university curriculum. Its large, airy reading rooms provide an excellent place to study, and in addition there is a separate floor with rooms for seminars and discussion groups for graduate students and faculty.

On the University Farm campus the library of the Department of Agriculture houses an outstanding collection of material on agriculture and home economics. There are also branch libraries and special collections of value to the students available in several of the schools and colleges at University Farm.

The Minneapolis Public Library, the St. Paul Public Library, the Minnesota Historical Society, and the James Jerome Hill Memorial Library of St. Paul, also are within convenient distance of either campus by street car, bus, or automobile.

The Library Handbook, copies of which may be had gratis upon application at the library, contains all necessary information regarding library hours, rules, and other matters essential to the profitable use of the library.



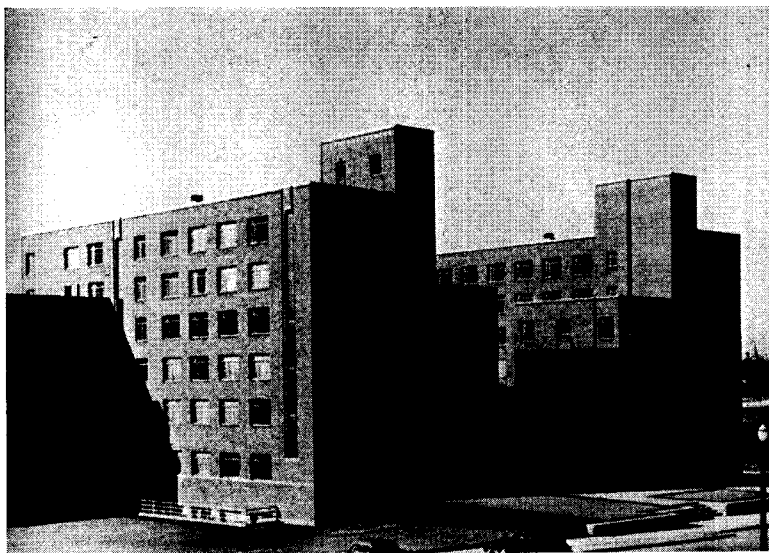
Biological-Medical Room, Main Library

LIVING QUARTERS

Ada Comstock Hall.—Excellent living accommodations are provided in Ada Comstock Hall, a residence hall for women opened in September, 1940. The building, which is modern in every way, faces the Mississippi River and is adjacent to the new Coffman Memorial Union. It accommodates 274 students. The individual rooms as well as the various lounges and dining rooms are most attractive and convenient.

Reservations should be made as far in advance as possible. Applications, accompanied by a deposit of \$2, should be sent direct to Ada Comstock Hall, University of Minnesota. No application will be recorded until a deposit fee of \$2 is received. Checks should be made payable to the University of Minnesota. This deposit will hold the room until the day after the opening of the Summer Session and is applied on the regular dormitory charge. For additional information write the director of Comstock Hall, University of Minnesota, Minneapolis.

Sanford Hall.—Women attending the first term of the Summer Session will be glad to know that Sanford Hall will be open this year for room *with board*. The hall is located on University Avenue one block from the main entrance to the campus. The spacious lounges and large dining room are cool and airy. All the rooms have been furnished with new drapes and spreads. Students furnish only their dresser scarves and towels. Both double and single rooms are available.



Ada Comstock Hall

No definite room assignment can be made before receipt of signed lease and the required \$2 deposit. This deposit will hold the room until the day after the opening of Summer Session and is applied on the regular dormitory charge.

Sanford will not be open for the second term of the Summer Session. For further information, write to the director of Sanford Hall, University of Minnesota, Minneapolis.

Department of Agriculture dormitory.—Women taking regular work during the first term of the Summer Session, either on the Minneapolis or on the University Farm campus, may obtain rooms in Meredith Hall, University Farm. There is convenient street car service to the Main campus. The dormitory contains a few single rooms; other rooms are intended to accommodate two persons. Necessary bedding and hand towels are furnished.

The rates during the summer are as follows: single rooms, \$2.50 per week; other rooms, \$2.25 per week per occupant.

Applications for rooms, accompanied by a \$2 deposit, should be made to the office of the superintendent, School of Agriculture, University Farm, St. Paul.

Assignment of rooms will be made at the time of registration in Meredith Hall. Fee statements may be obtained in Room 205, Administration Building, University Farm, and payment for the first term of the Summer Session must be made to the cashier, at the



Sanford Hall

time of assignment. Dormitories will be open Monday, June 15. They will not be available during the second term.

A cafeteria with reasonable charges is maintained on the University Farm campus.

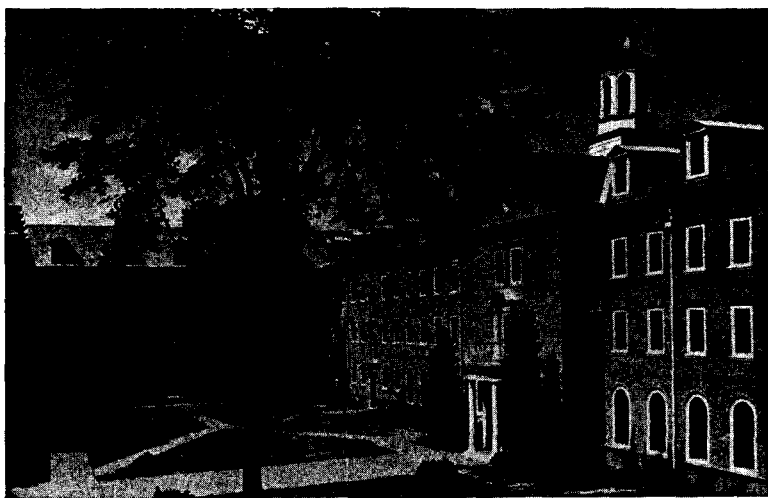
For those women who prefer living off the campus there are numerous private residences and sorority houses adjacent to the University.

Pioneer Hall.—Men will find attractive quarters in this modern dormitory, located on the East River Drive, overlooking the Mississippi River, one block east of the medical buildings. The building, quadrangular in form, is divided into sixteen houses, each having a separate entrance. Approximately thirty-two students are accommodated in each house. Most of the rooms are arranged in three-room suites for two students, altho a few single and double rooms are provided.

Pioneer Hall will be open for room but not for board during the Summer Session.

Students interested in residence in the hall should write to the director of Pioneer Hall, University of Minnesota, for a copy of the special bulletin and an application form. A \$2 deposit fee must accompany applications. Assignments will be made in the order of application.

Again, those men who prefer living off the campus will be able to find numerous private residences and fraternity houses available in the immediate vicinity of the University.



Courtyard of Pioneer Hall

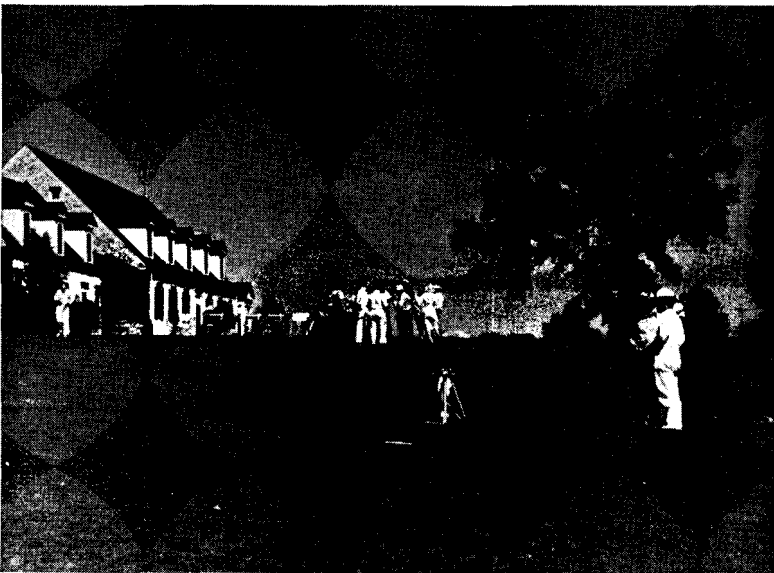
Thatcher Hall.—Thatcher Hall, providing living accommodations for thirty-six married students registered in the Graduate School, is located on the University Farm campus. There are both one-bedroom and non-bedroom quarters. All quarters include a dinette, kitchenette, in-the-wall bed, and a private bathroom with adjoining built-in wardrobe and closet.

Quarters are leased on a twelve-month basis, with the possibility of some of them being sublet for the Summer Session. Graduate students interested in residence at Thatcher Hall should communicate with the real estate manager, Room 12 Administration Building, University of Minnesota, Minneapolis, regarding application, prices, and other details.

SUMMER RECREATION

The University of Minnesota is ideally situated for a program of healthful recreation. A definite program is planned each year to give the Summer Session student a maximum of recreational activity for a minimum of expense. The Twin Cities, with their parks, lakes, art and music centers, libraries, and museums, offer many fine attractions for the summer visitor.

As a gateway to the countless resorts on Minnesota's famed 10,000 lakes, the Twin Cities also provide an advantage for the summer visitor seldom found anywhere else. No classes are scheduled for Saturdays so many students will find it convenient



Clubhouse, Recreation Field

and pleasant to spend week ends at some of these resorts and centers for recreation.

Included in the recreation program are regularly arranged weekly social dances and instruction periods in social dancing, square dancing, contract bridge, and bowling. Musical features include music listening hours, Minnesota WPA Symphony Orchestra concerts, and a music lending library. The University Art Laboratory is open evenings for those who wish to work on art projects of their own choice under informal instruction.

A number of excursions to points of historical, industrial, educational, or purely recreational interest in the vicinity of the Twin Cities also are made each summer. These tours are usually arranged for Mondays, Fridays, and Saturdays, with the cost only the necessary street car or bus fare.

The physical education plant at the University of Minnesota is one of the finest in the United States. Its facilities for healthful exercise are many and varied. These may be summarized briefly as follows: Recreation Field, an eighteen-hole golf course; three gymnasiums containing five swimming pools—Cooke Hall (the athletic building for men), the Norris Gymnasium for Women, and the Farm Gymnasium; Northrop Field, which contains facilities for baseball, track, diamond ball; 25 tennis courts, and space for other sports, such as badminton, horseshoes, handball, squash, table tennis, and archery.

A program of tennis and golf tournaments as well as other competitive sports is arranged each summer.* In addition, the swimming pools with attendants and instructors in charge are available for men at all times, and at scheduled times for women. All of these facilities are available for both men and women and most of them with no extra charge except for towel service.

* A daily sports hour is arranged at the Norris Gymnasium for Women for the enjoyment of women students; activities such as aerial darts, badminton, and table tennis will be available.



Scene from "Knickerbocker Holiday"

Tennis and golf tickets.—Tennis tickets will be issued to regularly enrolled students of the Summer Session, upon payment of a fee of \$1 and presentation of the bursar's receipt for fees. Such tickets entitle the holder to 15 sessions of play. Without tickets, a charge of 25 cents per session of play is made for the use of the tennis courts. Golf tickets are issued in the same manner without charge, but a greens fee of 50 cents is charged for a single round, or ten rounds for \$4.50. Before 10:30 a.m., except Sunday, and after 5:00 p.m. the charge will be 35 cents per round. Application should be made at the golf course clubhouse.

SPECIAL FEATURES

One of the principal features of the Summer Session program is the series of weekly convocation addresses by speakers of more than usual prominence. Scientists, literary figures, artists, observers of national and international affairs are among those who visit the campus to address the Summer Session audiences. In addition, an almost daily series of lectures by faculty members and invited guests adds to this feature of the program.

Each week those who enjoy good music will find opportunity to hear a musical program or a lecture-recital in the concert hall of the Music Building, in Northrop Memorial Auditorium, or in Coffman Memorial Union. These programs are free to students.

Performances of legitimate drama also have become an outstanding feature of the Summer Session. The University Theatre, a university dramatic student organization, functions throughout



Coffman Memorial Union

the summer and demonstrates the success attainable with student actors. For these offerings the very best of stage equipment and facilities is provided.

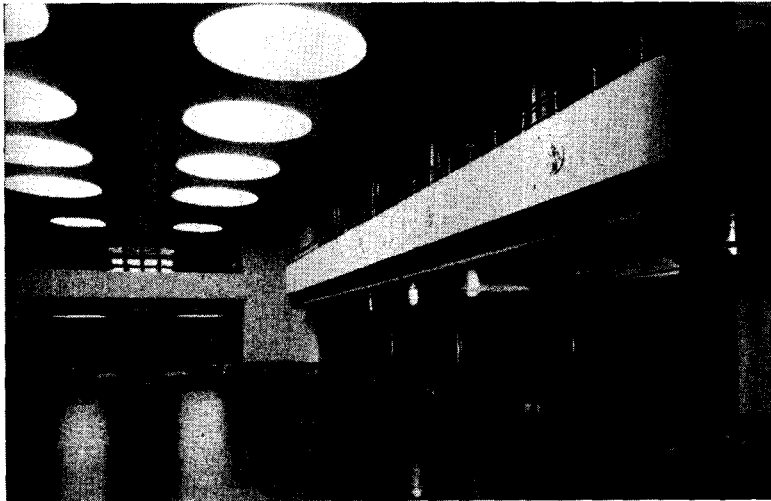
Another weekly feature which has proved increasingly popular is the Newsreel Theater, under direction of the Visual Education Department of the University. Motion pictures of current events, travel pictures, and educational films of various kinds form the subject matter of the theater.

STUDENTS' HEALTH SERVICE

The Students' Health Service conducts a dispensary during the Summer Session on the same basis as any other quarter of the year, the same staff of physicians, dentists, and nurses being on duty. This dispensary maintains, exclusively for students, clinics in medicine, surgery, dermatology, ophthalmology, otolaryngology, and dentistry. Hospitalization, whenever necessary for students, is provided in the "private patient" section of the University of Minnesota Hospitals. Home calls are not made during the Summer Session.

COFFMAN MEMORIAL UNION

The Coffman Memorial Union building has been designed to provide for the social life of university students. Summer Session students will find it a pleasant respite from the rigors of classroom activities. All students are eligible to enjoy the informal, friendly spirit which dominates the Union. Quiet, comfortable lounges,



Union Ballroom

colorful dining rooms, and interesting recreation rooms make the Union the natural "living room" for members of the university family. Here spacious, airy rooms overlooking the broad Mississippi provide a pleasant setting for informal social and recreational experiences.

Recreation facilities.—Popular with men and women students are the sixteen bowling lanes and the modern billiard room for recreation; the large cafeteria and interesting fountain grille for dining; the men's, women's, and coeducational lounges for resting and studying; the spacious open terrace for lounging or dining; the University Post Office and the neighboring Union Bookstore, barber and beauty shops for convenient utilitarian services.

The beautiful ballroom provides the background for the numerous informal dancing parties and dance instruction sessions that are a part of the summer recreational program. Upon occasion some of the dancing and coffee hour programs are conducted on the outdoor terrace.

Union program.—An extensive program of social, recreational, and cultural activities designed to appeal to summer students is conducted by the Union Program Consultants.

Some of the outstanding attractions on this year's schedule are the dancing classes in modern, social, South American, and folk dances; the instruction classes and tournaments in bowling, billiards, and bridge; the classical music hours; the symphony orchestra concerts; the music lending library; and social coffee hours. Timely art and photographic exhibits are made available in the Fine Arts Room. All of these programs are available to students without charge.

Dining facilities.—For dining purposes the Union offers a variety of eating accommodations. The cafeteria and luncheonette feature rapid service, while the fountain grille and the dining terrace provide for leisurely dining. Well-prepared food, moderate prices, and quick, efficient service typify all Union dining accommodations.

UNIVERSITY FARM UNION

This branch of the Coffman Memorial Union will be open throughout the Summer Session and available to undergraduate and graduate students at University Farm. The facilities include a co-educational lounge, women's lounge, fountain grille, men's lounge, game room, and a kitchenette for use in social group gatherings.

ADMISSION AND REGISTRATION

ADMISSION

The courses of the Summer Session are open to all qualified high school graduates. Persons of maturity whose preparation does not meet the entrance requirements, may be admitted as adult special

students on approval of the dean of the college or school concerned. Those who desire college credit for their work, and those who desire advanced standing for college work done elsewhere, should submit their credentials, consisting of official transcripts of their high school, normal school, or college work.

Students should consult the statements in the respective college bulletins of the University of Minnesota for detailed information concerning admission to a given college. General information may be found in the General Information Bulletin. Any of these bulletins may be obtained by calling upon or writing to the director of admissions and records, University of Minnesota, Minneapolis.

Courses to be given during the 1942 Summer Session are listed on pages 33 to 61.

REGISTRATION

In order that the short terms may prove of maximum value, and that the work of the courses may not be interfered with by late entrants, students are urged to complete their registration, including payment of fees, on the days set aside for registration.

The regular registration days are:

For the first term,	Monday, June 15, 8:30 a.m. to 4:00 p.m.
and	Tuesday, June 16, 8:30 a.m. to 4:00 p.m.
For the second term,	Monday, July 27, 8:30 a.m. to 4:00 p.m.



The Start of a Summer Session Excursion

Late registration fees are charged for the first term as follows for registration or payment of fees on:

Wednesday, June 17	\$2.00
Thursday, June 18	3.00
Friday, June 19	4.00
Monday, June 22	5.00

No registrations are allowed for the first term after Monday, June 22, without the special permission of the dean of the school or college concerned, and the payment of the late registration fee of \$5.

The late fees for the second term are as follows for registration or payment of fees on:

Tuesday, July 28	\$2.00
Wednesday, July 29	3.00
Thursday, July 30	4.00
Friday, July 31	5.00

No registrations will be accepted for the second term later than Friday, July 31, without the special permission of the dean of the school or college concerned, and the payment of the late registration fee of \$5.

No provision is made for allowing exemption from the late registration fees to those who are unable to reach the University during the regular registration days.

The University of Minnesota reserves the right to cancel any and all courses in which the registration is insufficient to warrant continuation of the course.

Candidates for admission to all colleges except the College of Agriculture, Forestry, and Home Economics will register in the Armory. Candidates for admission to the College of Agriculture, Forestry, and Home Economics will register at University Farm, 203d Administration Building.

CHANGES IN REGISTRATION

After a student's registration has been accepted by the recorder any change must be approved by the Students' Work Committee or the dean of the college in which the student is registered. *Only in exceptional cases will any change be made after classes have begun.*

FEEES

The following fees are payable each term by each full-time student at the time of registration and must be paid before registration is complete:

Tuition fee (per term)	\$25.80
Incidental fee‡ (per term)	4.20
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Total fee (per term)	\$30.00
General deposit	\$ 2.00

‡ An incidental fee of \$4.20 per term is charged each student for which the student receives the privileges of the Coffman Memorial Union, the Health Service, the Summer Session Daily including the Official Daily Bulletin, and the university post-office service.

The following fees are payable each term at the time of registration by each student taking four credits or less and must be paid before registration is complete:

Part-time tuition fee (4 credits or less) (per term).....	\$15.80
Incidental fee‡ (per term)	4.20
	<hr/>
Total fee (per term)	\$20.00
General deposit	\$ 2.00

In addition certain courses carry a fee as indicated in the description of those courses, in the regular bulletin.

Graduate students who have completed all their graduate work with the exception of their theses will be allowed to register in the Summer Session for *thesis work only* upon the payment of \$5 tuition and \$2 deposit.

Charges for lockers, laboratory breakage, library fines, etc., will be deducted from the \$2 deposit and the balance will be refunded by mail after the close of the term.

AUDITORS

Fees for auditors are the same as for students registered for credit. Permission to attend classes as auditors may be granted by the dean of the college or school with the consent of the department concerned. The procedure for registration as auditor is the same as for registration for credit, except that "auditor" should be indicated on both registration sheet and class card. It is expected that auditors will be registered in at least one course for credit, but this regulation may be waived in exceptional cases.

CREDIT

Credit is administered on the following basis: One quarter credit usually requires not less than 10 lecture or recitation periods (2 per week for a summer term) requiring two hours of preparation each or not less than 20 periods of laboratory work requiring one-half hour of preparation each; or not less than 30 hours of laboratory work with no preparation. Courses carrying two or more units of credit require corresponding multiples of these amounts.

AMOUNT OF WORK

A maximum of 9 credits or two 5-credit courses is considered a full program for either term. Registration for a greater number requires special permission from the Students' Work Committee or the dean of the school or college in which the student is registered.

Examinations are held at the last scheduled class hour for each course.

‡ An incidental fee of \$4.20 per term is charged each student for which the student receives the privileges of the Coffman Memorial Union, the Health Service, the Summer Session Daily including the Official Daily Bulletin, and the university post-office service.

Courses of Study

More than 750 courses covering a wide range of subjects will be offered during the two terms of the 1942 Summer Session. In a number of fields new courses are being prepared, more detailed announcements of which will be given in the regular Summer Session Bulletin.

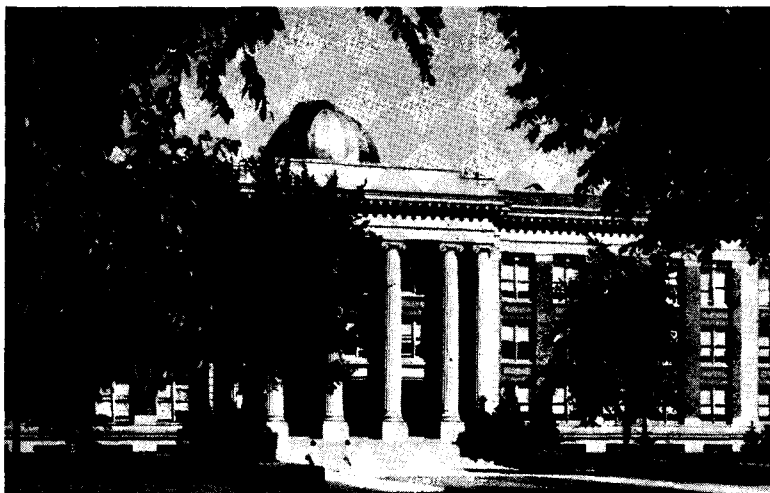
GRADUATE SCHOOL

The Graduate School of the University of Minnesota presents unusual opportunities for research in all the fields in which the school is concerned. The University's libraries, laboratories, and clinics, supplemented by the libraries, hospitals, and other centers in the Twin Cities, offer facilities for the graduate worker seldom found under ordinary conditions.

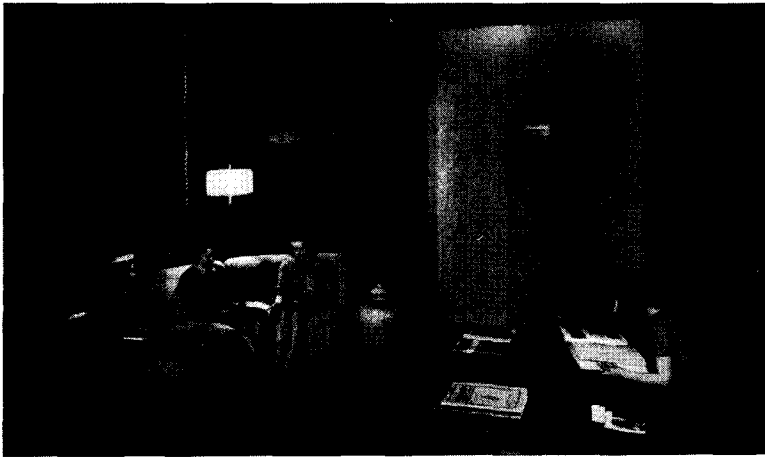
In itself the Graduate School combines in a single organization all the activities of the schools and colleges of the University in so far as they relate to advanced instruction offered for the second or higher degrees, namely master of arts, master of science, and doctor of philosophy.

The privileges of this school are in general open to all who have received Bachelor's degrees from accredited colleges and universities, based on courses substantially equivalent to those at this University.

Students must make application for admission to the Graduate School at least two weeks before the opening of the Summer



Physics Building



Fine Arts Room, Northrop Auditorium

Session which they expect to attend, in order to avoid delay and possible penalty for late registration. All applications for admission, except for graduates of the University of Minnesota, must be accompanied by an *official transcript* in duplicate of all undergraduate work, including degrees earned, and by a single official transcript of all graduate work completed. In certain departments, such as those conducting clinical or laboratory work, it will be necessary for students to check individually with the head of the department concerned as well as with the Graduate School office before their application for admission may be approved. In any case, admission to the Graduate School does not necessarily imply admission to a given major department, and students, therefore, before their arrival at the University, should secure from the chairmen of their major departments assurance that they are adequately prepared and will be accepted as majors in their chosen field.

A more detailed statement of the requirements and work in the Graduate School will be found in the regular Summer Session Bulletin and the Bulletin of the Graduate School, copies of which may be obtained by writing to the director of admissions and records, University of Minnesota, Minneapolis, Minnesota.

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

The College of Science, Literature, and the Arts offers a wide range of selection to the Summer Session student. Courses have been selected from the regular curriculum with especial attention to the needs and interests of the college and for preprofessional students.

The Department of English will offer next summer a particularly attractive program. In addition to members of the department, two distinguished visiting professors will be in residence, Professor Hoyt H. Hudson of Princeton University, and James Gray, novelist and journalist.

The course of study in the College of Science, Literature, and the Arts leads to the degree of bachelor of arts.

For general information regarding requirements for admission as regular or unclassified students, for general rules and regulations, and for the requirements for degrees in the different curricula offered by the college, students should consult one of the administrative officers or the complete Bulletin of the College of Science, Literature, and the Arts, copies of which may be obtained by writing to the director of admissions and records, University of Minnesota, Minneapolis, Minnesota.

THE CREATIVE ARTS

The University offers a rich and varied program of courses in many different fields of the creative arts. Depending on the particular interests of the student, practical or theoretical work may be taken in the several departments specializing in those problems.

The Department of Art Education offers courses in design and studio practice, with particular emphasis on the development of individual abilities and teaching skills.

Introductory courses in art appreciation and also more specialized work in the history and criticism of art are offered by the Department of Fine Arts, with a view toward integrating the creative arts with the student's general cultural and historical background.

In the Division of Home Economics, courses in related art are planned to integrate art with home economics training, and to develop discriminating taste in connection with the home and family life.

Practical skill in drawing and representation, particularly in technical and scientific work, may be developed in a number of courses offered by the Department of Drawing and Descriptive Geometry.

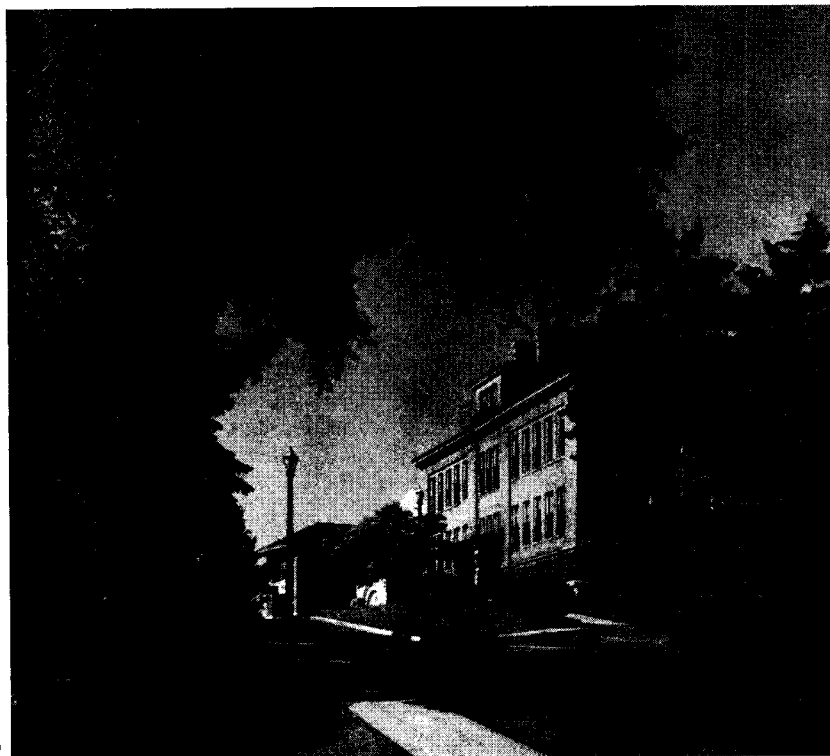
The University Art Gallery offers a number of important exhibits during the Summer Session, and its extensive reference and pictorial material will be available for individual and class use.

INSTITUTE OF TECHNOLOGY

The Institute of Technology, established in 1935, embraces the College of Engineering and Architecture, the School of Chemistry, and the School of Mines and Metallurgy. For the Summer Session

student interested in these fields the resources of its laboratories and the services of some of its ablest faculty members will be available.

Included in the curriculum of the College of Engineering and Architecture will be courses in civil engineering, drawing and descriptive geometry, geology, mathematics and mechanics, and mechanical engineering. In the School of Chemistry, inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and chemical engineering will be offered again this summer. Sufficient graduate courses in chemistry are now offered in the Summer Session so that students may acquire a Master's degree in this field by attending in the summer only. Students entering the Institute of Technology with a deficiency in solid geometry (Drawing 10) have an opportunity to remove this deficiency during the first term of the Summer Session preceding their entrance into the University in the fall.



Soils Building, University Farm

COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Agriculture offers a limited number of courses to college undergraduates interested in this field and a larger number of courses from most of the agricultural divisions for graduate students. For high school teachers of agriculture special agricultural courses are arranged which are supplementary to the courses offered by the Department of Agricultural Education (see College of Education).

The courses offered by the Home Economics Division are designed primarily for advanced undergraduate students and qualified graduate students. The courses listed represent the fields of foods and nutrition, related art, family relationships, textiles and clothing, consumer problems, shelter problems, and home economics education. The results of recent studies and investigations and methods of attack on selected problems in each field will be given consideration.

Graduate study.—Opportunity is offered in many divisions of agriculture for graduate study either for the first six-week term of the Summer Session or for the entire session of eleven weeks. In some divisions both courses and thesis work may be carried for the entire session. In other divisions thesis or course work only may be pursued through the Summer Session. Information concerning graduate work during the summer in any division may be obtained from the head of the division. Thesis and problem work is correlated in most divisions with the work in the Experiment Station, and the facilities offered during the summer are in most divisions especially attractive because of the field work possible only at that time.

Students intending to register for any phase of the graduate work and who expect to obtain credit in the Graduate School should make arrangements through the proper committees and with the dean of the Graduate School.

BIOLOGICAL STATION OF THE UNIVERSITY OF MINNESOTA

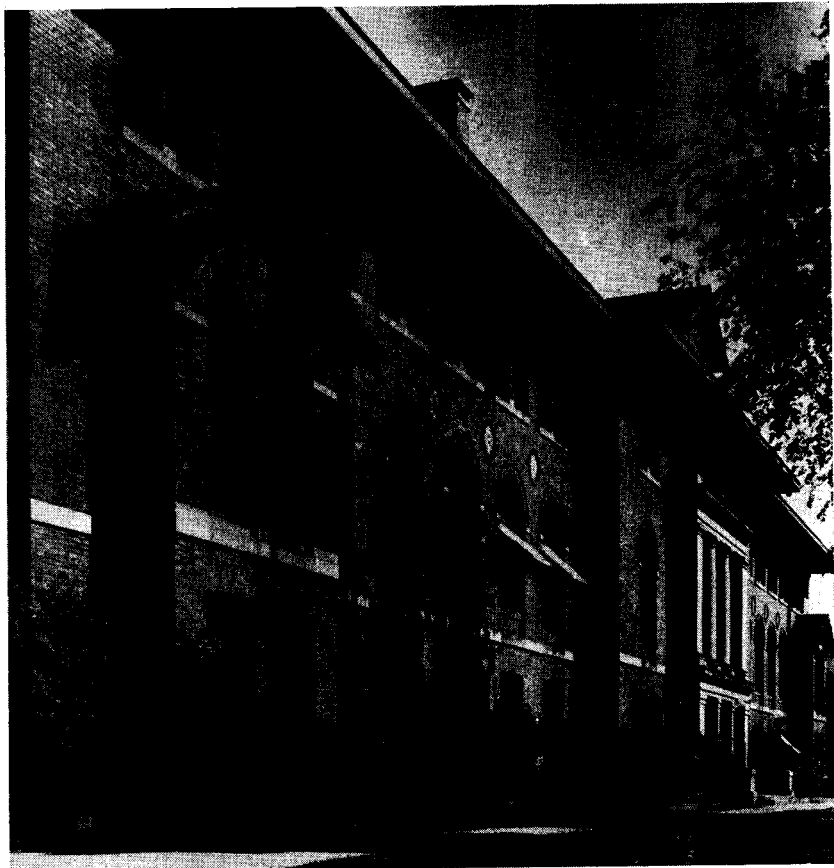
During the second term of the Summer Session an excellent opportunity for the study of terrestrial and fresh-water biology in its fundamental aspects is presented by the Biological Station of the University of Minnesota, located in Itasca Park.

Conducted co-operatively by various departments in the College of Agriculture, Forestry, and Home Economics and the College of Science, Literature, and the Arts, classes at the station will be held beginning July 27, ending August 28.

Courses are designed to provide opportunity for instruction and research and to train scientific investigators in biology. An excellent opportunity for study of the rich flora and fauna found in the midwestern and Lake States region is afforded at the station.

Elementary courses in field botany, field entomology, wildlife conservation, field mycology, etc., of special interest to high school teachers and others interested in conservation and the teaching of conservation, are available.

Field trips and indoor laboratory work are given on alternate days. In the field the student visits typical habitats and gathers specimens for laboratory study, supplemented by informal lectures by instructors in charge of each tour. The same scholastic standards are maintained at the station as on the campus of the University of Minnesota, and college credit is given for work satisfactorily accomplished.



Pendergast Hall, University Farm

Fees and expenses.—Registrations will be accepted during June and July but not later than July 27. The following fees are payable by each registrant on or before July 27 and must be paid before registration is completed:

Tuition fee	\$25.80
Health fee	1.00
<hr/>	
Total tuition fee	\$26.80
General deposit fee	2.00
Equipment fee	10.00
<hr/>	
Total fees for the term	\$38.80

In addition it is estimated on the basis of the experience of other groups of students that the cost of board will not exceed a total of \$30 for the five weeks. Rising costs may, however, necessitate an increase in this item. No additional charge is made for room in the dormitories and cabins of the Biological Station.

Charges for lockers, laboratory breakage, library fines, etc., will be deducted from the \$2 deposit and the balance will be refunded by mail after the close of the term.

Equipment fees include the use of microscopes, nets, boats, various class supplies, and accessories.

The estimated cost of \$68.80 for the five-week session does not include traveling expenses, clothing, laundry, and minor incidental personal expenses.

Admission.—The courses in the Biological Station are open to all qualified graduate and undergraduate students who have had



Amidst the Whispering Pines, Biological Station, Itasca Park



Women's Dormitories, Biological Station, Itasca Park

the usual preliminary courses in biological subjects, as well as to qualified high school graduates. Certain courses are especially designed for the teachers of biological subjects in colleges, high schools, and public schools, and others interested in plant and animal life. Graduate registrations must be approved by the major department and these submitted to the Graduate School for final approval.

For the 1942 session not more than one hundred (100) applicants can be admitted, and the priority of registration will govern admission.

For further information write to the director of the Biological Station, University Farm, St. Paul, Minnesota, or to the director of the Summer Session, 700 Administration Building, University of Minnesota, Minneapolis, Minnesota, for special folder describing the Biological Station.

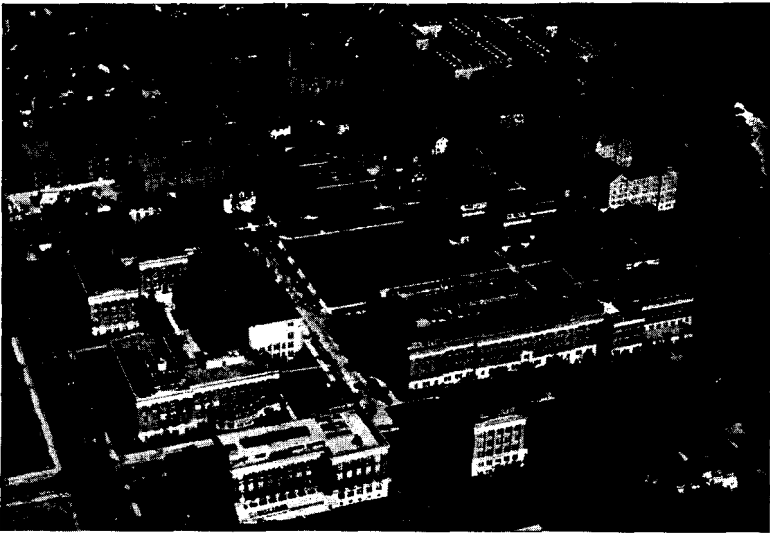
MEDICAL SCHOOL

The University of Minnesota Medical School is known as one of the leading centers for medical instruction and training in the United States. Because of its affiliation with the Mayo Foundation and because of its location in the Twin Cities, one of the principal medical centers of the Northwest, the University of Minnesota Medical School offers opportunities for the Summer Session student that are seldom found in any other place.

In the 1942 Summer Session the Department of Preventive Medicine and Public Health will offer a broad program of study for professional personnel at both the undergraduate and graduate levels extending through both terms of the Summer Session. Courses will be available for public health nurses and for physicians or other professional personnel who are studying toward a special professional degree or certificate in public health work. The basic courses for public health nurses will again be divided between the two summer terms but with a reversal of the order so that those courses offered last year in the second term will be available this year in the first term and vice versa. A special course will be offered for school nurses and school teachers covering the health problems of the school and the co-ordination of the health service with the teaching of health. Special attention is called to a course on nutrition in public health that will be offered the second term.

The courses in public health nursing have been so arranged that the work of the two terms constitutes a satisfactory introduction to public health nursing and at the same time serves as a refresher for those who have been out of the field for some years and now wish to return to active duty.

Three principal courses are offered in the Medical School: one for physicians, one for nurses, and one for medical technologists. The medical course proper leads to the degree of doctor of medicine, while the School of Nursing offers a course leading to the degrees of bachelor of science and graduate in nursing. The course



Air View of Medical Group, Minneapolis Campus

for medical technologists leads to the degree of bachelor of science. Courses in all of these fields are offered during the Summer Session. For more detailed information regarding fees, courses, etc., consult the regular Summer Session Bulletin.

COURSE FOR MEDICAL TECHNOLOGISTS

Several courses which are required in the Course for Medical Technologists are given during the Summer Session. See special bulletin on medical technology. Before registering for courses in the Summer Session, medical technology students should consult Dr. Charlotte M. Gast, assistant director of the Course for Medical Technologists, 136 Medical Sciences Building, University of Minnesota, Minneapolis.

SCHOOL OF DENTISTRY

Courses in the School of Dentistry are offered during the first and second terms of the Summer Session. For complete detailed information regarding the work offered and fees charged see the regular Summer Session Bulletin.

COLLEGE OF EDUCATION

Service to teachers and to other educational workers is the first consideration of the College of Education in planning the summer program. For the 1942 Summer Session a special effort has been made to have all regular staff members and graduate advisers in residence, making adequate provision in both terms for advisory work with graduate and undergraduate students. Emphasis has been placed on offering both basic courses and "refresher" courses on current trends in the various educational specialties.

In addition to the usual graduate offering in education, programs leading to the master of education (M.Ed.) degree have been approved in art education, industrial education, music education, and physical education. The work for these degrees is administered by the College of Education, and the offerings in the 1942 Summer Session will make it possible for teachers in these fields to make progress towards the professional degree. In industrial education, special descriptive materials in mimeographed form, including information on entrance requirements and program pattern for the M.Ed. degree, have been prepared. The Industrial Education Department will send these materials on request.

Many public and private school staff members wish to work in the Summer Session on particular problems of importance to their own schools. Such individual work, with competent assistance, will be available through registration in problems courses listed



Burton Hall

in all of the main areas of education. The Curriculum Laboratory will serve as a workshop during both terms for people concerned with practical problems of curricular reorganization. All staff members will schedule office hours for individual conferences.

The College of Education is aware of the desire of both teachers and administrators for observation of actual school processes. Many courses will provide for discussion of school problems based on observation in the Institute of Child Welfare, the Tuttle Demonstration Elementary School in Minneapolis, and the University High School.

In the elementary field a varied offering will be provided for teachers, supervisors, and administrators, with the core of courses required for the elementary education major being given in both summer terms. An exceptional program of training in reading will be offered, with courses in problems of teaching reading at the elementary and secondary levels and in remedial work, supplemented by observation and clinical practice. The College of Education will send a special announcement of this program on request.

High school teachers and administrators, also, will find a full offering for the 1942 session. Advanced courses will provide discussions of current problems of the junior and senior high school, as well as consideration of materials, methods of teaching, and curriculum problems. In the field of the social studies a workshop in guided reading in the social sciences will be offered through co-



Demonstration Class, Tuttle Elementary Demonstration School

operation of staff members in education and the various social science fields. Adolescent literature and children's literature will be of particular value to teachers of English.

Among the courses last year which were in particular demand for elementary and secondary school teachers were Visual Education and Radio in Education. These courses will be given again in the 1942 Summer Session.

The summer offering in school administration at the University of Minnesota is always strong. The regular staff and several visiting instructors will provide the courses desired by the principals and superintendents of the state. Special provision has been made for advisory work on graduate research studies in this field, and for meeting requirements of the State Department of Education for certification of principals and superintendents.

Problems of education in a democracy will receive special attention through offerings in philosophy and history of education and in the social problems of education. Dr. Theodore Brameld will offer courses in the social problems and philosophy of education, and history of education courses will provide background for the consideration of modern educational problems.

In guidance and personnel work, emphasis will be placed on organization problems, individual diagnosis, group guidance, and clinical practice. Courses in personnel work will be offered in both terms of the Summer Session.

A strong offering in educational psychology has been planned to meet the needs of teachers for better understanding of their students. Courses will be given in the application and evaluation of

test materials, personality development, problems of learning, the education of gifted children, the psychology of elementary school subjects, and the development of the elementary school child.

The Home Economics Education courses are so planned as to provide for student participation in setting up problems upon which the discussions and reports are based. Capable leadership is provided. It is expected that the experience will orient the student to present problems of the home economics teacher and suggest methods of attack. Special advanced work in methods of teaching has been added for the 1942 program.

Teachers of special subjects will find particularly good offerings in art education, agricultural education, music education, and industrial education. In these fields, so much in demand in public education at the present time, many teachers will want to take advantage of the opportunity to study for advanced degrees.

Because of the emergencies of the war, there will be a shortage of teachers. Persons who are already qualified and who have had experience will be the first ones to be called back into school service. The Summer Session will offer courses that such persons can take to rehabilitate themselves for certificates. More detailed information will be given in the complete Summer Session Bulletin, which will be published in March and may be obtained by addressing the director of the Summer Session, 700 Administration Building, University of Minnesota, Minneapolis.

CENTER FOR CONTINUATION STUDY

The program of the Center will contain a number of non-credit institutes and courses arranged for those who cannot attend the regular Summer Session. Further information may be obtained from Mr. J. M. Nolte, director of the Center for Continuation Study.

PHYSICAL EDUCATION FOR WOMEN

The Department of Physical Education for Women offers courses which carry credit toward:

1. A master of education degree. The entire curriculum of forty-five credits may be taken in summer sessions. A necessary prerequisite is the equivalent of an undergraduate major.

2. A major in physical education. Courses essential to the four-year major which leads to the degree of bachelor of science are offered in the first term of the Summer Session.

3. A minor in physical education. Because the State Department of Education may shortly require a minor in physical education to replace the present nine-credit endorsement for part-time teachers of physical education, most of the courses needed for the minor are offered during the first term of the Summer Session.



Archery Tournament, Farm Campus

4. A nine-quarter-credit state teaching endorsement. It is possible to meet this endorsement entirely in the first term.

The role of physical education in relation to the national emergency and the defense program will be considered in all courses offered in the summer of 1942.

The University of Minnesota has featured flexibility of graduate work in relation to individual professional interests and needs. Work leading to the degree of master of education is administered by the College of Education.

All particulars relating to these curricula may be secured by writing to the Department of Physical Education for Women.

PHYSICAL EDUCATION FOR MEN

MASTER OF EDUCATION DEGREE

The University offers an opportunity for students to take graduate work in physical education and to earn a master of education degree in this field. A five-year curriculum designed to prepare students for administrative and teaching positions in the various phases of physical education, upon satisfactory completion of which the master of education degree is received, is now in operation.

Transfer students and those who have taken work in physical education at the University of Minnesota may obtain this degree by completing a minimum of forty-five credits of work, provided their undergraduate training in physical education is comparable to that offered at the University at the present time. A very liberal number of courses that can be applied toward this advanced degree will be offered during both terms of the Summer Session.

BACHELOR OF SCIENCE DEGREE

The Department of Physical Education for Men also offers a four-year curriculum which leads to a bachelor of science degree.

This course prepares men to teach physical education in elementary and secondary schools and offers a good background for athletic coaching and other related activities. Courses applying toward this degree and toward fulfillment of the state requirements for teaching physical education will be offered in both terms of the Summer Session.

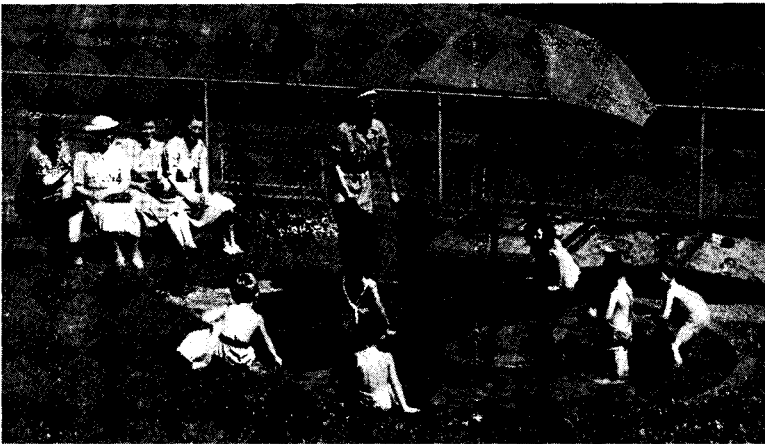
For details of these courses, correspondence should be addressed to the Department of Physical Education for Men, University of Minnesota, Minneapolis, Minnesota.

INSTITUTE OF CHILD WELFARE

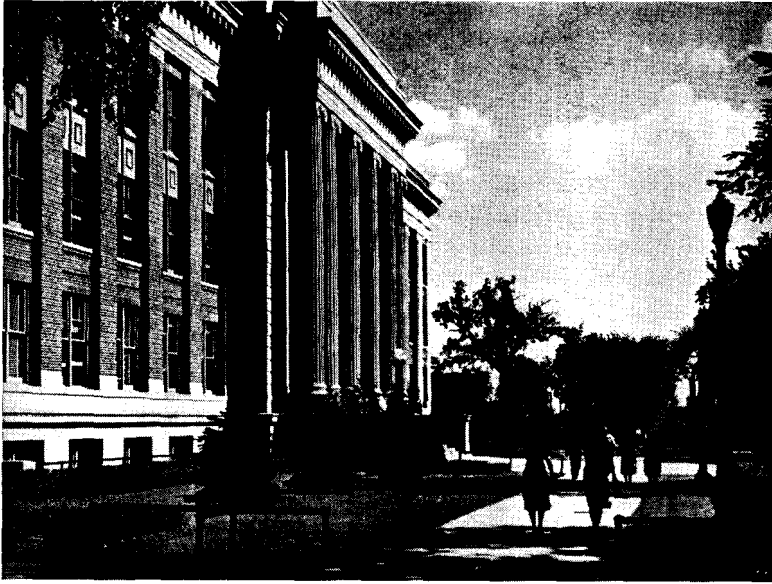
The Institute of Child Welfare, an organization for the scientific study of children, for the training of workers in the field of child development, and for the dissemination of information through a program of parent education, is offering a full program including both graduate and undergraduate courses in the first term of the Summer Session, and several courses in the second term.

SCHOOL OF BUSINESS ADMINISTRATION

Admission.—For admission to the School of Business Administration a student must have satisfied the requirements of one of the two-year prebusiness courses, either in the College of Science, Literature, and the Arts, the College of Agriculture, Forestry, and Home Economics, or the Institute of Technology. A student must have a minimum of 90 credits with one honor point per credit or a smaller number of credits determined as follows: For every five honor points in excess of one per credit, the number 90 is diminished by one.



Observation Class in the Nursery School, Institute of Child Welfare



Vincent Hall

Special students.—High school graduates who have reached the age of twenty-four and can furnish evidence to the effect that they have had business experience in an executive capacity may be admitted as special students.

Students in other schools or colleges of the University.—Regularly enrolled students in other schools or colleges of the University may be admitted to such courses in the School of Business Administration as are authorized by the faculties of the School of Business Administration and the school or college concerned.

LIBRARY INSTRUCTION

Academic credit is given only to students with at least two full years of approved work of collegiate grade. Candidates for a degree in library instruction must have had at least three years of work of collegiate grade approved by the assistant dean of the College of Science, Literature, and the Arts or a corresponding approval by the College of Education, in addition to a full year (45 quarter credits) in the Division of Library Instruction. "No-credit" students will be admitted only with the approval of the Library Division of the Minnesota State Education Department (in the case of residents of Minnesota) or of the director of the Division of Library Instruction (in the case of those not residents of Minnesota). Admission of "no-credit" students will be limited to candidates under appointment or written promise of appointment to definite library positions.

Program

This program is subject to change without notice.

EXPLANATION OF COURSE NUMBERS

- Courses 1 to 49 carry credit in the Junior College.
 Courses 50 to 99 carry credit in the Senior College.
 Courses 100 to 199 carry Senior College credit and graduate credit for those registered in the Graduate School.
 Courses 200 and above are open only to those registered in the Graduate School.

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

ANTHROPOLOGY

FIRST TERM

41su	Introduction to Anthropology	Mr. Stewart
118su	Indian Civilizations of Mexico and Peru	Mr. Stewart
122su	Problems in Anthropology	Mr. Stewart

ASTRONOMY

FIRST TERM

11su	Descriptive Astronomy	Mr. Luyten
13su	Stellar and Practical Astronomy	Mr. Luyten
140su	Least Squares	Mr. Luyten

BOTANY

FIRST TERM

1su	General Botany	Mr. Huff
10su	Minnesota Plant Life	Mr. Huff

Courses To Be Given at the Biological Station, Itasca Park

SECOND TERM

8su	Elements of Field Taxonomy	Mr. Buell
11su	Field Botany	Mr. Rosendahl
20su*	Elementary Field Ecology	
60su	Fresh Water Algae	Mr. Buell
62su*	Bryophytes and Pteridophytes	
116su	Advanced Field Taxonomy	Mr. Rosendahl
135su*	Field Research Methods in Ecology	
196su	Special Problems in Taxonomy	Mr. Rosendahl

CLASSICS

Opportunity will be offered to graduate students to pursue independent reading or to undertake work on theses. Students interested will enroll in 171su and are requested to communicate with Professor Ogle.

FIRST TERM

17su*	Greek and Latin Elements in English	Mr. Cram
42su*	Greek Mythology	Mr. Heller
141su*	Problems in Teaching of Latin	Mr. Heller
171su	Independent Reading	Mr. Ogle
221su*	Graduate Seminar in Latin Lyric Poetry	Mr. Cram

* This course will not be offered in the 1942 Summer Session.

ENGLISH

FIRST TERM

Courses in Literature

22su	Introduction to Literature	Mr. Hessler
55su	Shakespeare	Miss Christie
56su	Shakespeare	Mr. Bouvier
62su	Milton	Mr. Dunn
74su	American Literature	Mr. McDowell
75su	Chaucer	Arrange
100su	Old English	Arrange
106su	Eighteenth-Century Poetry	Mr. Hillhouse
109su	Romantic Poets	Mr. Beach
113su	American Short Story	Mr. McDowell
115su	Victorian Prose	Mr. Beach
129su	Modern Drama	Mr. Hillhouse
135su	Spenser	Mr. Hudson
153su	Seventeenth-Century Lyrists	Mr. Dunn
157su	Elizabethan Non-Dramatic Literature	Mr. Hudson

Courses in Composition

4su	Freshman Composition	Mr. Buckley
5su	Freshman Composition	Mr. Bouvier
27su	Advanced Writing	Miss Christie
28su	Advanced Writing	Mr. Buckley
101su	Creative Writing	Mr. Gray

SECOND TERM

Courses in Literature

56su	Shakespeare	Mr. Flanagan
73su	American Literature	Mr. Flanagan
110su	Romantic Poets	Mr. Nichols
126su	Drama, 1660-1800	Miss Jackson
151su	Recent Poetry	Miss Jackson
156su	The American Drama to 1880	Mr. Nichols

Courses in Composition

6su	Freshman Composition	Mrs. Phelan
29su	Advanced Writing	Mrs. Phelan

FINE ARTS

FIRST TERM

3su	Introduction to Renaissance and Baroque Art	Mr. Schmeckebier
107su	Modern Mexican Art	Mr. Schmeckebier

GEOGRAPHY

FIRST TERM

11su	Human Geography	Mr. Davis
53su	Historical Geography of North America	Mr. Brown
71su	Geography of North America	Mr. Dicken
101su	Geography of Europe	Mr. Dicken
110su	Geography of South America	Mr. Brown

GEOLOGY

FIRST TERM

1su	General Geology	Mr. Stauffer
100su	Field Geology in Northern Minnesota (July 15-30, approximately)	Mr. Gruner, Mr. Thiel
150su	Field Geology in the Black Hills (June 13-July 11)	Mr. Gruner, Mr. Schwartz

GERMAN

FIRST TERM

1su	Beginning A	Mr. Downs
3su	Beginning C	Mr. Wagman
110su	Introduction to Germanic Philology	Mr. Downs
175su	The Modern German Novel	Mr. Pfeiffer

SECOND TERM

2su	Beginning B	Mr. Meessen
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HISTORY

FIRST TERM

21su	American History (1844-1877)	Mrs. Tyler
51asu	Roman History	Mr. Jones
55su	Medieval History	Mr. Krey
65su	Twentieth-Century Europe	Mr. Deutsch
68su	United States since Reconstruction (after 1900)	Mr. Stephenson
83su	American Economic History (early period)	Mr. Loehr
86su	American Colonies in Seventeenth Century	Mrs. Tyler
101su	Roman History	Mr. Jones
106su	Medieval Europe	Mr. Krey
107su	Twentieth-Century Europe	Mr. Deutsch
116su	American Economic History (early period)	Mr. Loehr
131su	United States since Reconstruction (after 1900)	Mr. Stephenson
132su	American Colonies in Seventeenth Century	Mrs. Tyler
155su	Readings in Medieval History	Mr. Krey
157su	Readings in Twentieth-Century Europe	Mr. Deutsch
184su	Readings in American Economic History	Mr. Loehr
191su	Readings in American History: Political Leaders	Mr. Stephenson
192su	Readings in Latin-American History	Mr. Jones

SECOND TERM

22su	American History	Mr. Osgood
58su	European History (French Revolution)	Mr. Steefel
91su	American West	Mr. Osgood
107su	European History (French Revolution)	Mr. Steefel
123su	American West	Mr. Osgood
157su	Readings in European History (19th Century)	Mr. Steefel

JOURNALISM

FIRST TERM

13su	Introduction to Reporting	Mr. Kildow
68su	Problems in Radio Writing	Mr. Charnley
73su	Magazine Writing and Editing	Mr. Charnley
82su	Supervision of School Publications	Mr. Kildow
113su	The Press and World Affairs	Mr. Casey
133su	Propaganda and Censorship in the Modern World	Mr. Casey
210su	Research in Newspaper Problems	Mr. Casey, Mr. Charnley

MATHEMATICS

FIRST TERM

1su	Higher Algebra	Miss Elveback
6su	Trigonometry	Mr. Crawford
7su	College Algebra	Mr. Olmsted, Miss Elveback
50su	Calculus I	Miss Gibbens, Mr. Crawford
90su	Tutorial Course in Senior College Mathematics	Mr. Underhill, Miss Gibbens, Mr. Olmsted
105su	Intermediate Calculus	Mr. Underhill
110su	Tutorial Course in Advanced Mathematics	Mr. Jackson, Mr. Underhill, Miss Gibbens
112su	Space Curves	Miss Gibbens
114su	Tensor Analysis	Mr. Jackson
150su	History of Modern Mathematics	Mr. Jackson

SECOND TERM

6su	Trigonometry	Mr. Munro
51su	Calculus II	Miss Carlson, Mr. Munro
125su	Theory of Geometrical Constructions	Miss Carlson

MUSIC

FIRST TERM

1su	Ear Training	Miss Kendall
2su	Ear Training	Miss Kendall
5su	Harmony	Mr. Jennings
11su	Piano	Mr. Lindsay, Miss Kendall
12su	Voice	Mr. Killeen, Miss Hull
13-26su	Instruments of the Orchestra	Arrange
27su	Organ	Mr. Jennings
33su	Music Appreciation	Mr. Killeen
34su	History of Music	Mr. Ferguson
43su	Chorus	Mr. Killeen
60su	Instrumental Ensemble	Mr. Pepinsky
77-78- 79su	Composition—Orchestration	Mr. Ferguson
83-84- 85su	Advanced Composition	Mr. Ferguson
200-201- 202su	Basis of Musical Expression	Mr. Ferguson
205-206- 207su	Composition in Larger Forms	Mr. Ferguson
209-210- 211su	Advanced Topics in Musical Analysis	Mr. Pepinsky

SECOND TERM

11su	Piano	Mr. Lindsay
12su	Voice	Mrs. Snyder
13-26su	Instruments of the Orchestra	Arrange

PHILOSOPHY

FIRST TERM

1su	Problems of Philosophy	Mr. Conger
63su	Principles of Mature Thinking	Mr. Feigl
153su	Philosophy of Science	Mr. Feigl
180su	History of Religions	Mr. Conger

SECOND TERM

2su	Logic	Mr. Norborg
3su	Ethics	Mr. Everett
20su	Social Philosophy	Mr. Everett
114su	American Philosophy from Puritanism to Pragmatism	Mr. Norborg
192su	Seminar (Research Problems)	Mr. Conger, Mr. Feigl

PHYSICS

FIRST TERM

1-2-3su	Introduction to Physical Science, Part I	Mr. Miller
1A-2A-3Asu	Introduction to Physical Science, Part I (with laboratory)	Mr. Miller
4su	General Physics (Mechanics and Heat) (primarily for premedical students)	Mr. Williams
7su	General Physics (Mechanics and Heat) (for majors in physics and engineers)	Mr. Williams
29su	Introduction to Meteorology	Mr. Miller
100su	Intermediate Physics (Mechanics)	Mr. Sutton
109su	Modern Physics	Mr. Williams
114su	Elementary Physical Investigation	Mr. Miller, Mr. Williams, Mr. Sutton
151su	Demonstrations in Physics for High School Classes (same as Ed.C.I. 106)	Mr. Sutton

SECOND TERM

1-2-3su	Introduction to Physical Science, Part II	Mr. Schmitt
1A-2A-3Asu	Introduction to Physical Science, Part II (with laboratory)	Mr. Schmitt
5su	General Physics (Optics-Sound) (primarily for premedical students)	Mr. Valasek
6su	General Physics (Electricity and Modern Physics) (for majors in physics and engineers)	Mr. Buchta
8su	General Physics (Electricity and Modern Physics) (for majors in physics and engineers)	Mr. Buchta
9su	General Physics (Optics-Sound) (primarily for premedical students)	Mr. Valasek
116su	Elementary Physical Investigation	Mr. Buchta, Mr. Valasek, Mr. Schmitt
134su	Experimental Optics	Mr. Valasek
136su	Spectroscopy	Mr. Valasek
146su	Thermionics—Vacuum Tube Circuits	Mr. Schmitt

POLITICAL SCIENCE

FIRST TERM

1su	American Government and Politics, Part I	Mr. Kirkpatrick
2su	American Government and Politics, Part II	Mr. Christensen
25su	World Politics	Mr. Mills
100su	The Constitution and Social Change	Mr. Latham
109su	National Defense: Organization and Law	Mr. Latham

125su	Recent Social Legislation	Mr. Christensen
161su	Recent Political Thought	Mr. Kirkpatrick
197su	Contemporary World Problems	Mr. Mills
201su	Seminar in American Government	Mr. Christensen, Mr. Kirkpatrick, Mr. Latham
297su	Seminar for Research in International Relations	Mr. Mills

SECOND TERM

1su	American Government and Politics, Part I	Mr. McLaughlin
25su	World Politics	Mr. McLaughlin
137su	American Political Parties	Mr. Starr
148su	European Dictatorships	Mr. Starr
202su	Seminar in American Government	Mr. Starr, Mr. McLaughlin

PSYCHOLOGY

FIRST TERM

1-2su	General Psychology	Mr. Heron
109su	Psychology of Individual Differences	Mr. Carlson
116su	Psychology of Literature	Mr. Skinner
120su	Psychology of Thinking	Mr. Skinner
136su	Psychology of Motivation and Conflict	Mr. Carlson
281su	Practice in Personnel Work	Mr. Darley

SECOND TERM

1-2su	General Psychology	Mr. Clark
3su	Psychology Applied to Daily Life	Mr. Longstaff
107su	Vocational and Employment Psychology	Mr. Longstaff
144-145su	Abnormal Psychology	Mr. Bird

ROMANCE LANGUAGES

FIRST TERM

French

1su	Beginning French	Mr. Wilson
106su	French Syntax and Composition	Mr. Clefton
120su	French Literature: Eighteenth Century—Rousseau	Mr. Clefton
142su	Romantic Drama	Mr. Clefton
259su	Direction of Graduate Work	Mr. Clefton

Spanish

1su	Beginning Spanish	Mr. Cuneo
3su	Intermediate Spanish	Mr. LeFort
53su	Spanish Composition and Conversation	Mr. Cuneo
70su	Latin-American Culture (course conducted in Spanish)	Mr. LeFort
259su	Direction of Graduate Work	Mr. LeFort

NOTE.—The Department of Romance Languages is also making tentative plans for an Institute of Spanish Studies to be held during the first term of the Summer Session. The plans include a Spanish House where both students and teachers of Spanish would live; small classes in conversation and composition, lectures in Spanish on South American culture and literature, Spanish movies, etc., would be given. The courses would carry university credit. The probable cost would be approximately \$150, including board and room. Those interested should write to the Department of Romance Languages, University of Minnesota, Minneapolis, Minnesota, at once, as plans cannot be completed until some idea of the number of probable registrants is available.

SECOND TERM

French

1su	Beginning French	Mr. Clefton
165su	Romantic Poetry	Mr. Clefton
259su	Direction of Graduate Work	Mr. Clefton

Spanish

1su	Beginning Spanish	Mr. Pattison
2su	Beginning Spanish	Mr. Grismer
53su	Spanish Composition and Conversation	Mr. Pattison
259su	Direction of Graduate Work	Mr. Pattison

SOCIOLOGY AND SOCIAL WORK

FIRST TERM

Sociology

1su	Introduction to Sociology (3 sections)	Mr. Tannous, Mr. Washburn
6su	Social Interaction	Mr. Kirkpatrick
14su	Rural Sociology	Mr. Tannous
53su	Elements of Criminology	Mr. Vold
100su	Social Psychology	Mr. Kirkpatrick
105su	Criminological Theories	Mr. Vold
200su	General Seminar	Staff

Social Work

129-130su	Principles of Social Case Work	Mrs. Fenlason
135su	Survey of Social Work for Children	Miss Quinlan
180su	Field Work Training in Social Work	Miss Phillips
218su	Seminar in Family Case Work	Mrs. Fenlason
236su	Research Topics in Social Work	Staff

SECOND TERM

Sociology

1su	Introduction to Sociology (2 sections)	Mr. Strong, Mr. Gross
6su	Social Interaction	Mr. Gross
14su	Rural Sociology	Mr. Nelson
114su	Rural Social Institutions	Mr. Nelson
200su	General Seminar	Staff

Social Work

138su	Case Work with Children	Miss Laabs
181su	Field Work Training in Social Work	Mrs. Doyle
197su	Historical Development of Theories of Personality	Mr. Strong
236su	Research Topics in Social Work	Staff

SPEECH

FIRST TERM

	Speech Clinic	Mr. Bryngelson, Miss Hull, Mrs. Chapman, Miss Shinn
1su	Fundamentals of Speech	Mr. Gilkinson
31cu	Introduction to the Theater	Mr. Whiting
32su	Beginning Acting	Mr. Lees
61su	Speech Hygiene	Mr. Bryngelson
65su	Radio Speech	Mr. Ziebarth
66su	Radio Drama	Mr. Erekson
67su	Phonetics	Miss Hurd
81su	Interpretative Reading	Miss Hurd
111su	Stage Direction	Mr. Whiting
121-122su	Advanced Speech Problems	Mr. Gilkinson
151su	The Teaching of Speech	Mr. Gilkinson
162su	Speech Pathology	Mr. Bryngelson
173su	History of the Modern Theater	Mr. Lees
181su	Readings in Speech	Staff

SECOND TERM

1su	Fundamentals of Speech	Mr. Brown
2su	Fundamentals of Speech	Arrange
3su	Fundamentals of Speech	Arrange
33su	Beginning Acting	Mr. Whiting
112su	Stage Direction	Mr. Whiting
163su	Speech Pathology	Mr. Brown
181su	Readings in Speech	Mr. Brown

ZOOLOGY

FIRST TERM

1su	General Zoology	Mr. Clark
51su	Introductory Animal Parasitology	Mr. Wallace
197su	Problems	Mr. Clark, Mr. Wallace

SECOND TERM

2su	General Zoology	Mr. Olson
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Courses To Be Given at the Biological Station, Itasca Park

SECOND TERM

54su*	Parasitology	
55su	Natural History of Invertebrates and Fishes	Mr. Eddy
107su*	Protozoology	
108su*	Advanced Protozoology	
115su	Advanced Natural History of Invertebrates and Fishes	Mr. Eddy
116su	Limnology	Mr. Eddy
147su*	Helminthology	
198su	Problems in Limnology	Mr. Eddy

INSTITUTE OF TECHNOLOGY

COLLEGE OF ENGINEERING AND ARCHITECTURE

CIVIL ENGINEERING

FIRST TERM

31su	Stresses in Structures	Mr. Hughes, Mr. Johnston
32su	Stresses in Structures	Mr. Hughes, Mr. Johnston
33su	Elementary Structural Design	Mr. Hughes, Mr. Johnston
38su	Stresses in Structures (Arch.)	Mr. Hughes, Mr. Johnston
39su	Structural Design (Arch.)	Mr. Hughes, Mr. Johnston
41su	Reinforced Concrete (Arch.)	Mr. Hughes, Mr. Johnston
83su	Stresses in Simple Structures (Aero. E.)	Mr. Hughes, Mr. Johnston
115su	Airplane Stresses (Aero. E.)	Mr. Hughes, Mr. Johnston
131su	Bridge Analysis and Design	Mr. Hughes, Mr. Johnston
132su	Bridge Analysis and Design	Mr. Hughes, Mr. Johnston
134su	Statically Indeterminate Structures	Mr. Hughes, Mr. Johnston
137su	Structural Laboratory	Mr. Hughes, Mr. Johnston
141su	Reinforced Concrete	Mr. Hughes, Mr. Johnston
142su	Reinforced Concrete Design	Mr. Hughes, Mr. Johnston

* This course will not be offered in the 1942 Summer Session.

DRAWING AND DESCRIPTIVE GEOMETRY

FIRST TERM

1-2su	Engineering Drawing	Mr. Potter
3su	Descriptive Geometry	Mr. Myers
7-8su	Engineering Drawing and Descriptive Geometry	Mr. Myers
10su	Solid Geometry	Mr. Potter
11, 12,		
13su	Engineering Drawing (Mines)	Mr. Potter
14su	Descriptive Geometry (Mines)	Mr. Myers
21, 22,		
23su	Drafting	Mr. Myers
26su	Drafting	Mr. Potter
28-29su	Drafting	Mr. Potter
34su	Lettering	Mr. Myers
41-42-		
43su	Technical Drawing	Mr. Doseff
81-82-		
83su	Advanced Drawing	Mr. Doseff
86-87su	Anatomical Drawing	Mr. Doseff

SECOND TERM

1-2su	Engineering Drawing	Mr. French
3su	Descriptive Geometry	Mr. French
7-8su	Engineering Drawing and Descriptive Geometry	Mr. French
21, 22,		
23su	Drafting	Mr. French
26su	Drafting	Mr. French
28-29su	Drafting	Mr. French

MATHEMATICS AND MECHANICS

FIRST TERM

13su	Analytical Geometry	Mr. Peebles
26su	Technical Mechanics: Statics	Mr. Siler

SECOND TERM

9su	Higher Algebra	Mr. McEwen
13su	Analytical Geometry	Mr. McEwen
26su	Technical Mechanics: Statics	Mr. Loye
127su	Technical Mechanics: Dynamics	Mr. McNown

MECHANICAL ENGINEERING

FIRST TERM

1su*	Elementary Woodworking	Mr. Richards
1asu*	Elementary Woodworking	Mr. Richards
2su*	Machine Woodworking	Mr. Richards
2asu*	Machine Woodworking	Mr. Richards
3su*	Wood Finishing and Furniture Construction	Mr. Richards
3asu*	Wood Finishing	Mr. Richards
4su*	General Woodwork	Mr. Richards
4asu*	Furniture Construction	Mr. Richards
5su*	Pattern Practice	Mr. Richards
6su*	Advanced General Woodwork	Mr. Richards
8su*	Foundry Practice (Ind. Ed.)	Mr. Holtby
9su*	Foundry Practice	Mr. Holtby
10su*	Advanced Foundry Practice	Mr. Holtby
11su	Metal Working (Prebus.)	Mr. Hughes
11asu	Welding Principles and Practice	Mr. Hughes
11bsu	Art Metal Work	Mr. Hughes
12su	General Metal Work (Ind. Ed.)	Mr. Hughes
13su	Forging, Heat Treating, and Welding	Mr. Hughes
14su	Advanced Welding	Mr. Hughes

* This course will not be offered in the 1942 Summer Session.

16su	Machine Shop Practice (Mines)	Mr. Crowder
17su	Machine Shop Practice (E.E., Prebus.)	Mr. Crowder
18su	Machine Shop Practice (Aero. E.)	Mr. Crowder
19su	Machine Shop Practice (Ind. Ed.)	Mr. Crowder
71su	Machine Shop Practice	Mr. Crowder
72su	Machine Shop Practice	Mr. Crowder
73su	Advanced Machine Shop	Mr. Crowder
110su*	Foundry Control Methods	Mr. Holtby
111su*	Advanced Foundry Practice	Mr. Holtby

INSTITUTE OF TECHNOLOGY

SCHOOL OF CHEMISTRY

INORGANIC CHEMISTRY

FIRST TERM

1su	General Inorganic Chemistry	Mr. Taylor
4su	General Inorganic Chemistry	Mr. Klug
6su	General Inorganic Chemistry	Mr. Taylor
9su	General Inorganic Chemistry	Mr. Klug
11su	Semimicro Qualitative Analysis	Mr. Heisig
12su	Semimicro Qualitative Analysis	Mr. Heisig
14su	General Inorganic Chemistry	Mr. Taylor
102su	Semimicro Qualitative Analysis (Advanced)	Mr. Barber
103su	Advanced Inorganic Chemistry	Mr. Klug
104su	Advanced Inorganic Chemistry	Mr. Taylor
109su	Synthetic Inorganic Chemistry	Mr. Heisig
115su	Commercial Products and Their Analysis	Mr. Barber
301su	Research in Inorganic Chemistry	Mr. Heisig, Mr. Barber, Mr. Klug, Mr. Taylor

SECOND TERM

2su	General Inorganic Chemistry	Mr. Maynard
5su	General Inorganic Chemistry	Mr. Maynard
7su	General Inorganic Chemistry	Mr. Maynard
10su	General Inorganic Chemistry	Mr. Maynard
11su	Semimicro Qualitative Analysis	Mr. Pervier
12su	Semimicro Qualitative Analysis	Mr. Pervier
15su	General Inorganic Chemistry	Mr. Maynard
105su	Advanced Inorganic Chemistry	Mr. Maynard
302su	Research in Inorganic Chemistry	Mr. Maynard

ANALYTICAL CHEMISTRY

FIRST TERM

1su	Quantitative Analysis (Gravimetric)	Mr. Geiger
7su	Quantitative Analysis for Premedics	Mr. Geiger
96su	Senior Thesis	Mr. Geiger
123-124su	Advanced Analytical Chemistry	Mr. Geiger
203su	Selected Topics in Analytical Chemistry	Mr. Geiger
301su	Research in Quantitative Analysis	Mr. Geiger

ORGANIC CHEMISTRY

FIRST TERM

1su	Elementary Organic Chemistry	Mr. Lauer
110su	Organic Qualitative Analysis	Mr. Koelsch
130su	Organic Quantitative Analysis	Mr. Lauer
140su	Aromatic Compounds	Mr. Koelsch
301su	Research in Organic Chemistry	Mr. Lauer, Mr. Koelsch

* This course will not be offered in the 1942 Summer Session.

SECOND TERM

2su	Elementary Organic Chemistry	Mr. Arnold
139su	Advanced Organic Laboratory Work	Mr. Arnold
302su	Research in Organic Chemistry	Mr. Arnold

PHYSICAL CHEMISTRY

FIRST TERM

107su	Elementary Physical Chemistry	Mr. Crawford
141su	Special Topics in Physical Chemistry	Mr. Crawford
211su	Advanced Physical Chemistry Laboratory	Mr. Crawford
301su	Research in Physical Chemistry	Mr. Crawford

SECOND TERM

108su	Elementary Physical Chemistry	Mr. Hull
142su	Special Topics in Physical Chemistry	Mr. Hull
212su	Advanced Physical Chemistry Laboratory	Mr. Hull
302su	Research in Physical Chemistry	Mr. Hull

CHEMICAL ENGINEERING

FIRST TERM (JUNE 15 TO JULY 17)

151su	Chemical Manufacture (Inorganic)	Mr. Reed
152su	Chemical Manufacture (Organic)	Mr. Montonna

SECOND TERM (JULY 20 TO AUGUST 21)

151su	Chemical Manufacture (Inorganic)	Mr. Mann
152su	Chemical Manufacture (Organic)	Mr. Haugen

THIRD TERM (AUGUST 24 TO SEPTEMBER 25)

151su	Chemical Manufacture (Inorganic)	Mr. Stoppel
152su	Chemical Manufacture (Organic)	Mr. Pike

INSTITUTE OF TECHNOLOGY

SCHOOL OF MINES AND METALLURGY

MINING

FIRST TERM

15su	Field Trip (4 weeks, beginning about June 15)	Mr. Lambert, Mr. Heilig
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COLLEGE OF AGRICULTURE, FORESTRY, AND
HOME ECONOMICS

AGRICULTURAL BIOCHEMISTRY

FIRST TERM

4su	Introduction to Organic and Biochemistry	Mr. Greenwood
203su	Research Problems	Staff

SECOND TERM

203su	Research Problems	Staff
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AGRICULTURAL ECONOMICS

FIRST TERM

170su	Land Economics	Mr. Dowell
180su	Advanced Farm Accounting	Mr. Engene

AGRICULTURAL EDUCATION

For list of courses in Agricultural Education, see courses listed elsewhere in this bulletin under the College of Education.

AGRICULTURAL ENGINEERING

FIRST TERM

42su	Art Metal Work	Mr. Dent
124su	Agricultural Machinery and Mechanical Power Management	Mr. Schwantes, Mr. Field

AGRONOMY AND PLANT GENETICS

FIRST AND SECOND TERMS

Agronomy

201su	Research in Farm Crops	Mr. Wilson, Mr. Army
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Plant Genetics

241su	Research in Plant Genetics	Mr. Hayes, Mr. Immer, Mr. Burnham
244su	Laboratory Methods in Plant Breeding	Mr. Immer

ANIMAL AND POULTRY HUSBANDRY

FIRST AND SECOND TERMS

213su	Research in Animal Husbandry	Mr. Peters, Mr. Ferrin, Mr. Winters, Mr. Harvey
214su	Research in Poultry Husbandry	Mr. Sloan

DAIRY HUSBANDRY

FIRST TERM

208su	Research in Dairy Production	Mr. Fitch, Mr. Petersen, Mr. Gullickson
209su	Research in Dairy Manufacturing	Mr. Combs, Mr. Coulter
215su	Research in Dairy Bacteriology	Mr. Macy

SECOND TERM

210su	Research in Dairy Production	Mr. Fitch, Mr. Petersen, Mr. Gullickson
211su	Research in Dairy Manufacturing	Mr. Combs, Mr. Coulter
216su	Research in Dairy Bacteriology	Mr. Macy

ENTOMOLOGY AND ECONOMIC ZOOLOGY

FIRST TERM

55su	Entomological Techniques	Mr. Mickel
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FIRST AND SECOND TERMS

197su	Introduction to Research	Staff
204su	Research in Entomology	Staff

Courses To Be Given at the Biological Station, Itasca Park

FIRST TERM†

13su	Field Zoology	Mr. Mickel
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† Open only to students in Forestry.

SECOND TERM

59su	Field Entomology	Mr. Granovsky
62su	Wildlife Conservation Principles and Administration	Mr. Swanson
68su	Natural History of the Higher Vertebrates	Mr. Swanson
76su	Techniques of Field Biology	Mr. Granovsky
168su	Advanced Natural History of the Higher Vertebrates	Mr. Swanson
196su	Special Problems in Entomology or Economic Zoology	Mr. Granovsky, Mr. Swanson

FORESTRY

Courses To Be Given at the Biological Station, Itasca Park

FIRST TERM

(Open only to students who have completed at least one year of forestry in the University or one year in a junior college or other college.)

2su	Field Dendrology	Mr. Benseid
5su	Field Silviculture	Mr. Cheyney
6su	Field Mensuration	Mr. Brown
11su	Camp Management	Mr. Brown
Ent. 13su	Field Zoology (see under Entomology and Economic Zoology)	

SECOND TERM

11su*	Field Dendrology	Mr. Buell
145su	Conservation of Natural Resources	Mr. Schantz- Hansen

HOME ECONOMICS

FIRST TERM

61su	Quantity Cookery	Miss Dunning
86su	Home Management Laboratory	Miss Studley
142su	Experimental Cookery	Miss Donelson
150su	Textile Problems	Miss Phelps
170su	Nutrition of the Family	Miss Biester
180su	Home Planning and Furnishing	Miss V. Goldstein
184su	Home Management Problems	Miss Studley
185su	Family Relationships	Arrange
295su	Home Economics Problems (Housing the American Family)	Miss H. Goldstein

SECOND TERM

85su	Home Management Lectures	Miss Jeary
86su	Home Management Laboratory	Miss Jeary

HORTICULTURE

FIRST AND SECOND TERMS

190-191- 192su	Special Problems	Mr. Alderman and others
247su	Report on Special Horticultural Topics	Mr. Alderman and others

PLANT PATHOLOGY AND BOTANY

FIRST AND SECOND TERMS

206su	Research in Plant Pathology	Mr. Stakman and others
210su	Research in Mycology	Mr. Stakman, Miss Dossdall
257su	Research Problems in Applied Plant Physiology	Mr. Harvey, Mr. Landon

Courses To Be Given at the Biological Station, Itasca Park

SECOND TERM

50su	Field Mycology	Mr. C. M. Chris- tensen
210su	Research in Mycology	Mr. C. M. Chris- tensen

* This course will not be offered in the 1942 Summer Session.

BIOLOGICAL STATION

The courses to be given at the Biological Station will begin July 27 and close August 28. Special arrangements will be made for those whose school or other duties make it impossible to remain through the final week of the session.

The following courses are offered in the Biological Station for the year 1942 at Itasca Park during the second term of the Summer Session:

SECOND TERM

BOTANY

8su	Elements of Field Taxonomy	Mr. Buell
11su	Field Botany	Mr. Rosendahl
20su*	Elementary Field Ecology	
60su	Fresh Water Algae	Mr. Buell
62su	Bryophytes and Pteridophytes	Mr. Rosendahl
116su	Advanced Field Taxonomy	Mr. Rosendahl
135su*	Field Research Methods in Ecology	
196su	Special Problems in Ecology or Taxonomy	Mr. Rosendahl

ENTOMOLOGY AND ECONOMIC ZOOLOGY

59su	Field Entomology	Mr. Granovsky
62su	Wildlife Conservation Principles and Administration	Mr. Swanson
68su	Natural History of the Higher Vertebrates	Mr. Swanson
76su	Techniques of Field Biology	Mr. Granovsky
168su	Advanced Natural History of the Higher Vertebrates	Mr. Swanson
196su	Special Problems in Entomology or Economic Zoology	Mr. Granovsky, Mr. Swanson

FORESTRY

11su*	Field Dendrology	Mr. Buell
145su	Conservation of Natural Resources	Mr. Schantz- Hansen

PLANT PATHOLOGY AND BOTANY

50su	Field Mycology	Mr. C. M. Chris- tensen
210su	Research in Mycology	Mr. C. M. Chris- tensen

ZOOLOGY

54su*	Parasitology	
55su	Natural History of Invertebrates and Fishes	Mr. Eddy
107su*	Protozoology	
108su*	Advanced Protozoology	
115su	Advanced Natural History of Invertebrates and Fishes	Mr. Eddy
116su	Limnology	Mr. Eddy
147su*	Helminthology	
198su	Problems in Limnology	Mr. Eddy

MEDICAL SCHOOL

ANATOMY

FIRST TERM

The Department of Anatomy is co-operating with the United States Public Health Service, through the School of Nursing, by admitting a special preparedness class (composed of college graduates only) during the first term.

59su	Systematic Anatomy	Dr. Miller
61su	Histology and Embryology	Dr. Rasmussen
65su	Hematology	Miss Sundberg
100su	Gross Human Anatomy	Dr. Boyden, Dr. Wells

* This course will not be offered in the 1942 Summer Session.

103su	Human Histology	Dr. Rasmussen
111su	Human Neurology	Dr. Rasmussen
156su	Advanced Anatomy	Dr. Boyden, Dr. Rasmussen, Dr. Wells, Dr. Miller
204su	Research in Anatomy	Dr. Boyden, Dr. Rasmussen, Dr. Wells

SECOND TERM

60su	Anatomy of Head and Neck	Dr. Blount
101su	Gross Human Anatomy	Dr. Blount
156su	Advanced Anatomy	Dr. Blount
204su	Research in Anatomy	Dr. Blount

BACTERIOLOGY AND IMMUNOLOGY

FIRST TERM

53su	General Bacteriology	Dr. Larson
116su	Immunity	Dr. Larson
201su	Research in Bacteriology	Dr. Larson

SECOND TERM

102su	Medical Bacteriology	Dr. Skinner
114su	Yeasts, Molds, and Actinomycetes	Dr. Skinner
201su	Research in Bacteriology	Dr. Skinner

MEDICINE

FIRST TERM

Required

18su	Principles of Medical and Surgical Nursing	Dr. Fahr and staff
110su	Class Clinic in Medicine	Dr. Fahr and staff
111su	Clinical Clerkship in Medicine	Dr. Watson and staff
111xsu	Clinical Clerkship in Medicine (Minneapolis General Hospital)	Dr. Fahr and staff
111ysu	Admission Clerkship	Dr. Wetherby and staff
118su	Clinical Clerkship in Neuropsychiatry	Dr. McKinley and staff
124su	Physical Diagnosis and Therapy—Dermatology	Dr. Michelson and staff

Elective

70su and 170su	Introductory Neuropsychiatry	} Dr. Hinckley
	Social Work	
171su and 171su	Descriptive Neuropsychiatry	} Dr. Cottrell
	Social Work	
106su	Physical Diagnosis and Case Taking	Dr. Wetherby
131su	Practical Aspects of Physical Diagnosis of the Chest	Dr. Weisman
136su	The Respiratory Organs in Health and Disease	Dr. Myers
143su	Problems in Neuropathology	Dr. Baker
144su	Neuropathology	Dr. Baker
149su	Resident Clerkship in Psychiatry	Dr. Freeman, Dr. Patterson, and staffs

150su	Resident Clerkship in Tuberculosis	Dr. Mariette and staff
159su	Assistantship, Dermatology and Syphilis	Dr. Sweitzer, Dr. Rusten, Dr. Winer
160su	Assistantship and Conference in Dermatology	Dr. Michelson and staff
163su	Treatment of Syphilis	Dr. Michelson and staff

SECOND TERM

Required

18su	Principles of Medical and Surgical Nursing	Dr. Fahr and staff
110su	Class Clinic in Medicine	Dr. Fahr and staff
111su	Clinical Clerkship in Medicine	Dr. Watson and staff
111xsu	Clinical Clerkship in Medicine (Minneapolis General Hospital)	Dr. Fahr
111ysu	Admission Clerkship	Dr. Wetherby and staff
118su	Clinical Clerkship in Neuropsychiatry	Dr. McKinley and staff
124su	Physical Diagnosis and Therapy—Dermatology	Dr. Michelson and staff

Elective

106su	Physical Diagnosis and Case Taking	Dr. Wetherby
131su	Practical Aspects of Physical Diagnosis of the Chest	Dr. Weisman
136su	The Respiratory Organs in Health and Disease	Dr. Myers
143su	Problems in Neuropathology	Dr. Baker
144su	Neuropathology	Dr. Baker
149su	Resident Clerkship in Psychiatry	Dr. Freeman, Dr. Patterson, and staffs
150su	Resident Clerkship in Tuberculosis	Dr. Mariette and staff
159su	Assistantship, Dermatology and Syphilis	Dr. Sweitzer, Dr. Rusten, Dr. Winer
160su	Assistantship and Conference in Dermatology	Dr. Michelson and staff
163su	Treatment of Syphilis	Dr. Michelson and staff

FIRST AND SECOND TERMS

Graduate Courses

201su	Clinical Medicine	Dr. Watson and staff
202su	Diseases of the Cardiovascular Apparatus	Dr. Fahr
203su	Research in Medicine	Dr. Watson, Dr. Fahr, Dr. Spink
205su	Tuberculosis	Dr. Myers
208su	Clinical Neurology	Dr. McKinley, Dr. Baker
208xsu	Clinical Psychiatry	Dr. McKinley, Dr. Clarke, Dr. Baker, Dr. Hathaway
209su	Research in Neurology and Psychiatry	Dr. McKinley, Dr. Hathaway, Dr. Baker

214su	Psychiatric Disorders of Childhood.....	Dr. Clarke
216su	Research in Neuropathology.....	Dr. Baker
217su	Neuropsychiatric Case Conference.....	Dr. McKinley and staff
226su	Problems in Pathological Physiology.....	Dr. Fahr
227su	Problems in Clinical Physiology.....	Dr. Fahr
267su	Dermatology and Syphilology.....	Dr. Michelson and staff
268su	Histopathology	Dr. Michelson and staff
269su	Syphilis Therapy	Dr. Michelson and staff
270su	Dermatology and Syphilology.....	Dr. Sweitzer and staff
271su	Dermatology in Students' Health Service.....	Dr. Michelson and staff
272su	Allergy in Dermatology.....	Dr. Michelson, Dr. Sweitzer, and staff
273su	Dermatology and Syphilology.....	Dr. Michelson and staff

OBSTETRICS AND GYNECOLOGY

FIRST AND SECOND TERMS

130su	Obstetrics and Gynecology Clinic.....	Dr. McKelvey, Dr. Dippel, Dr. Solhaug, Dr. McLennan
135su	Clinical Clerkship in Obstetrics and Gynecology (University Hospitals).....	Dr. McKelvey, Dr. Dippel, Dr. LaVake, Dr. Solhaug, Dr. McLennan
135xsu	Clinical Clerkship in Obstetrics and Gynecology (Minneapolis General Hospital).....	Dr. Lang, Dr. Simons, and staff
155su	Prenatal Clinic (Wells Memorial).....	Dr. Abramson
155asu	Prenatal Clinic (Margaret Barry).....	Dr. Abramson
204su	Graduate Work in Hospital	Dr. McKelvey and staff
208su	Graduate Work in Hospital (Advanced).....	Dr. McKelvey and staff
212su	Graduate Work in Hospital (Advanced).....	Dr. McKelvey and staff
219su	Research Work	Dr. McKelvey and staff
224su	Dispensary Service (Graduate).....	Dr. McKelvey, Dr. LaVake, Dr. Simons, and staff

OPHTHALMOLOGY AND OTOLARYNGOLOGY

FIRST AND SECOND TERMS

Required

103su	Clinic in Diseases of the Eye.....	Dr. Burch and staff
104su	Clinic in Diseases of the Ear.....	Dr. Boies and staff
105su	Clinic in Diseases of the Nose and Throat.....	Dr. Boies and staff

Elective

106su	Operative Clinic in Eye	Dr. Burch and staff
116su	Operative Clinic in Ear, Nose, and Throat	Dr. Boies and staff
117su	Clinical Otorhinolaryngology	Staff

A didactic course in ophthalmology can be given (Dr. Macnie) during the Summer Session, if sufficient students desire it.

PATHOLOGY

FIRST TERM

107su*	Surgical Pathology	Dr. McCartney
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FIRST AND SECOND TERMS

104su	Autopsies	Dr. Bell and staff
109su	Clinical Pathological Conference	Dr. Bell and staff
111su	Conference on Autopsies	Dr. Bell and staff
201su	Research in Pathology	Dr. Bell and staff

PEDIATRICS

FIRST TERM

130su	Pediatrics—Amphitheater Clinic	Dr. McQuarrie
135su	Pediatrics—Clinical Clerkship	Dr. McQuarrie and others
208su	Pediatric Research	Dr. McQuarrie and others

SECOND TERM

130su	Pediatrics—Amphitheater Clinic	Dr. Hansen, Dr. Stoesser, and others
135su	Pediatrics—Clinical Clerkship	Dr. Hansen, Dr. Stoesser, and others
208su	Pediatric Research	Dr. Hansen, Dr. Stoesser, and others

PHARMACOLOGY

FIRST TERM

8su	Elementary Pharmacology	Dr. Wright
108su	Prescription Writing	Dr. Wright
109su	Pharmacological Problems	Dr. Hirschfelder, Dr. Wright
110su	Toxicology	Dr. Wright
115su	General Pharmacology for Medical Students	Dr. Hirschfelder, Dr. Wright
115xsu	General Pharmacology for Dental Students	Dr. Hirschfelder, Dr. Wright
203su	Research in Pharmacology	Dr. Hirschfelder, Dr. Wright

SECOND TERM

8su	Elementary Pharmacology	Dr. Bieter
103su	General Pharmacology	Dr. Bieter
104su	General Pharmacology	Dr. Bieter
109su	Pharmacological Problems	Dr. Bieter
111su	Advanced Toxicology	Dr. Bieter
203su	Research in Pharmacology	Dr. Bieter

* This course will not be offered in the 1942 Summer Session.

PHYSIOLOGY

FIRST TERM

1su	Elements of Physiological Chemistry	Arrange
2su	Elements of Physiology	Arrange
4su	Human Physiology	Dr. King
58su	Human Physiology for Dental Students	Dr. Scott
100su	Physiological Chemistry for Medical and Other Students	Dr. Burr, Dr. Barnes
103su	Physiology Advanced Course for Medical, Graduate, and Other Qualified Students	Dr. Scott, Dr. Lorber
113asu	Aviation Physiology	Dr. Visscher
113bsu	Selected Topics in Clinical Physiology	Dr. Visscher
117su	Tissue Culture Laboratory	Dr. King
203su	Research in Physiology	Dr. Visscher
205su	Research in Physiological Chemistry	Dr. Burr

SECOND TERM

59su	Human Physiology for Dental Students	Dr. Hemingway
101su	Physiological Chemistry, Continuation of Course 100su	Dr. Arnow, Dr. Samuels
104su	Physiology of Nervous System and Special Senses	Dr. Hemingway
203su	Research in Physiology	Dr. Hemingway
205su	Research in Physiological Chemistry	Dr. Arnow, Dr. Samuels

PREVENTIVE MEDICINE AND PUBLIC HEALTH

FIRST TERM

50su	Public and Personal Health	Dr. Boehrer
60su	Tuberculosis and Its Control	Dr. Myers
61su	Mental Hygiene	Miss Shalit
62-63su	Principles of Public Health Nursing	Miss Freeman
66su	Field Practice in Rural Nursing	Miss Freeman
67su	Field Practice with Family Health Agency	Miss Freeman, Miss Draper, Mrs. Lyons
101su	Public Health Administration and Field Work	Dr. Anderson
124su	Health Education Problems	Miss Nyswander
171su	Problems in Public Health Nursing	Miss Freeman

Biometry

110su	Biometric Principles	Mr. Treloar
111su	Biostatistics Laboratory	Mr. Treloar
140su	Topics in Biostatistics	Mr. Treloar

SECOND TERM

53su	Elements of Preventive Medicine and Public Health	Dr. Anderson
59su	Health of the School Child	Dr. Ellis
65su	Field Practice in School Nursing	Miss Pangburn
66su	Field Practice in Rural Nursing	Miss Pangburn
67su	Field Practice with Family Health Agency	Miss Draper, Mrs. Lyons, Miss Pangburn
69su	School Nursing	Miss Pangburn
70su	Special Methods and Supervised Teaching in Health Education for Public Health Nurses	Miss Pangburn
76su	Nutrition for Public Health Nurses	Miss Donelson
101su	Public Health Administration and Field Work	Dr. Anderson

102su	Environmental Sanitation	Mr. Whittaker, Mr. Pierce
106su	Public Health Administration	Dr. Anderson
118su	Environmental Sanitation II	Mr. Whittaker, Mr. Pierce
123su	Topics in Public Health	Dr. Anderson

RADIOLOGY

FIRST AND SECOND TERMS

Required

135x,y,zsu is offered as part of the clerkships in Medicine, Pediatrics, and Surgery (see Bulletin of the Medical School).

Elective

85su	Plate Reading	Dr. Rigler and others
88asu	X-Ray Diagnosis	Dr. Ude
88bsu	X-Ray Diagnosis	Dr. M. B. Hanson
95su	Clinic in X-Ray Therapy	Dr. Stenstrom
101su	Surgical-Roentgenological Conference	Dr. Rigler
103su	Physical Therapy Clinic	Dr. Knapp
107su	Medical-Roentgenological Conference	Dr. Rigler
108su	Pediatric-Roentgenological Conference	Dr. Rigler
200su	Research in Roentgen Diagnosis	Dr. Rigler
205su	Research Related to Radiation Therapy	Dr. Stenstrom
207su	Roentgen and Radium Therapy	Dr. Stenstrom

SURGERY

FIRST AND SECOND TERMS

Required

135su	Clinical Clerkship	University Hospital Surgery staff
135asu	Clinical Pathology of Tumors	Dr. Rea, Dr. Ritchie
135bsu	Reading Course	Dr. Ritchie
135csu	Surgical-Pathological Conference	Dr. Rea, Dr. Bergh
135dsu	Roentgenological-Surgical Conference	Radiology and Surgery staffs
135esu	Surgical Ward Conference	Surgery staff
135gsu	Outpatient Surgical Clinic	University Hospital Surgery staff
135gasu	Applied Surgical Anatomy	Dr. Sperling
135hasu	Laboratory Surgery	Surgery staff
135isu	Anesthetics	Dr. Knight
135ysu	Clinical Clerkship	Minneapolis Gen- eral Hospital staff
145su	Orthopedic Clinic (Part of Course 135)	Orthopedics staff
149su	Urology Clinic (Part of Course 135)	Urology staff

Elective

153su	Problems in Clinical Investigation	Dr. Wangensteen and others
154su	Proctology: Assistantship in Proctology	Dr. Fansler, Dr. J.K. Anderson
156su	Bedside Diagnostic Clinic	Dr. Robitshek
161su	Urology Clinic	Dr. Foley
167su	Problems in Experimental Surgery	Dr. Wangensteen and others

SCHOOL OF NURSING†§

FIRST TERM

12su§	Introduction to Nursing.....	Miss Harrington
60su††	Ward Administration for Instructional Purposes.....	Miss MacDonald
61su	Personnel Work in Schools of Nursing.....	Miss Schneider
63su	Motion Study.....	Mr. Koepke
72su††	Teaching and Supervision in Schools of Nursing.....	Miss Petry

SCHOOL OF DENTISTRY

Medical Science Subjects

FIRST TERM

53su	General Bacteriology.....	Dr. Larson
58su	Human Physiology.....	Dr. King
59su	Systematic Anatomy.....	Dr. Miller
61su	Histology and Embryology.....	Dr. Rasmussen
115xsu	General Pharmacology for Dental Students.....	Dr. Hirschfelder

SECOND TERM

59su	Human Physiology.....	Dr. Code
60su	Anatomy of the Head and Neck.....	Dr. Miller

Clinical Practice

FIRST AND SECOND TERMS

Crown and Bridge Work.....		Dr. Wells
Operative Dentistry.....		Dr. Green
Orthodontia.....		Dr. Rudolph
Prosthetic Dentistry.....		Dr. Flagstad
Oral Surgery.....		Dr. Griffith
Major Oral Surgery of the Mouth and Jaws.....		Dr. Waldron

COLLEGE OF EDUCATION

AGRICULTURAL EDUCATION

FIRST TERM

Agr.Ed.141su	Supervised Practice in Vocational Agriculture.....	Mr. Ekstrom
Agr.Ed.145su	Integrated Course of Study in Agriculture.....	Mr. Field
Agr.Ed.191su	Seminar in Agricultural Education.....	Mr. Field
Agr.Ed.232su	Research in Agricultural Education.....	Mr. Field, Mr. Ekstrom
Agr.Ed.237su	Adult Education in Agriculture.....	Mr. Ekstrom
Agr.Ed.286su	Special Problems in Agricultural Education.....	Mr. Field, Mr. Ekstrom

ART EDUCATION

FIRST TERM

ArtEd.18su	Art for Elementary Teachers.....	Mr. Gayne
ArtEd.24,26,28, 66,67, or 68su	Painting.....	Mrs. Torbert
ArtEd.31su	Orientation in Handcraft Processes.....	Miss Lien, Mrs. Torbert

† For courses in Public Health Nursing see pages 51-52.

†† A limited amount of observation can be arranged.

§ First quarter courses for basic preparation of undergraduate students will be taught during the Summer Session and will be open to graduate nurses. These courses will include anatomy, bacteriology, physiological chemistry, physiology, and introductory nursing.

ArtEd.54,55, or 56su	Fundamental Experiences in Art	Mrs. Torbert
ArtEd.84su	Teaching of Art in the Elementary Grades	Mr. Gayne
ArtEd.124E,125E, or 126Esu	Advanced Painting	Mrs. Torbert
ArtEd.153su	Art in Society: The Scandinavian Home as an Expression of Northern Art	Miss Lien
ArtEd.284su	Reading and Research in Art Education	Miss Lien
ArtEd.290E, 291E, or 292Esu	Special Problems in Art Education (M.Ed. candidates)	Miss Lien
ArtEd.295su	Special Problems in Art Education (M.A. can- didates)	Miss Lien

CURRICULUM AND INSTRUCTION

Courses Offered

Students reading this section of the bulletin should note that under each main division in Education the courses are grouped for those interested in elementary, secondary, and higher education fields. Under each division courses of general interest are listed General Courses and these are followed by the offerings in Elementary Education, Secondary Education, and Higher Education.

FIRST TERM

General Courses

Ed.C.I.105su	Visual Aids in Teaching	Mr. Archer
Ed.C.I.107su	Radio in Education	Mr. Tyler
Ed.C.I.129su	Principles and Problems of Teaching Social Hygiene	Mr. Griffiths
Ed.C.I.145su	Remedial Reading	Mr. Tinker
Ed.C.I.271su	Problems in Curriculum Construction	Mr. Bossing, Mr. Cook
Ed.C.I.273su	Problems in Reading	Mr. Bond, Mr. Tinker

Elementary Education

Ed.C.I.63su	Children's Literature	Miss Smith
Ed.C.I.102su	Contents and Activities of the Social Studies in the Elementary Grades	Mr. Wesley
Ed.C.I.103su	The Teaching of Science in the Elementary School	Mr. Carlson
Ed.C.I.119su	Elementary School Curriculum	Mr. Cook
Ed.C.I.143su	Teaching of Reading in the Elementary School	Mr. Bond
Ed.C.I.150su	Supervision and Improvement of Instruction	Mr. Brueckner
Ed.C.I.186su	Laboratory in Elementary Instructional Prac- tices	Mr. Stauden- maier
Ed.C.I.226su	Seminar in Elementary School Problems	Mr. Brueckner, Mr. Bond
Ed.C.I.255su	Supervision and Teaching of Arithmetic	Mr. Brueckner
Ed.C.I.261su	Special Problems in School Supervision	Mr. Brueckner

Secondary Education

Ed.C.I.106su	Demonstrations in Physics for High School Classes (same as Physics 151su)	Mr. Sutton
Ed.C.I.113su	High School Curriculum	Mr. Bossing
Ed.C.I.122su	Literature for Adolescents	Miss Handlan
Ed.C.I.144su	Teaching of Reading in the Upper Grades and Junior and Senior High Schools	Miss Handlan
Ed.C.I.169su	Extra-curricular Activities	Mr. Bossing
Ed.C.I.171su	Curriculum Laboratory Practice	Mr. Bossing

Ed.C.I.201su	Problems in Teaching the Social Studies (Workshop in Guided Reading in the Social Sciences)	Mr. Wesley and others
Ed.C.I.266su	Supervision of High School Instruction	Mr. Boardman
Ed.C.I.294su	Advanced Course in Methods of Teaching English	Miss Smith
Ed.C.I.296su	Special Problems in Techniques of Secondary School Instruction	Miss Smith

Higher Education

Ed.C.I.250su	Higher Education in the United States	Miss Eckert
Ed.C.I.288su	Problems in Higher Education	Miss Eckert

SECOND TERM

General Courses

Ed.C.I.107su	Radio in Education	Mr. Tyler
Ed.C.I.145su	Remedial Reading	Mr. Bond
Ed.C.I.271su	Problems in Curriculum Construction	Mr. Bossing, Mr. Cook
Ed.C.I.273su	Problems in Reading	Mr. Bond

Elementary Education

Ed.C.I.119su	Elementary School Curriculum	Mr. Cook
Ed.C.I.143su	Teaching of Reading in the Elementary School	Mr. Bond
Ed.C.I.150su	Supervision and Improvement of Instruction ...	Mr. Brueckner
Ed.C.I.151su	Diagnosis and Remedial Instruction	Mr. Brueckner
Ed.C.I.153su	Supervision and Teaching of English in the Elementary Schools	Mr. Archer
Ed.C.I.261su	Special Problems in School Supervision	Mr. Brueckner

Secondary Education

Ed.C.I.113su	High School Curriculum	Mr. Bossing
Ed.C.I.168su	Current Developments in the Social Studies ...	Mr. Wesley
Ed.C.I.170Bsu	Curriculum and Course of Study Construction	Mr. Bossing
Ed.C.I.171su	Curriculum Laboratory Practice	Mr. Bossing
Ed.C.I.254su	Supervision of the Social Studies	Mr. Wesley
Ed.C.I.266su	Supervision of High School Instruction	Mr. Boardman
Ed.C.I.293su	Foundations of Secondary School Methods	Mr. Johnson

EDUCATIONAL ADMINISTRATION

FIRST TERM

General Courses

Ed.Ad.124su	Public School Administration	Arrange
Ed.Ad.125su	Techniques in Administration	Arrange
Ed.Ad.210su	Financial Aspects of Public School Business Administration	Arrange
Ed.Ad.226su	School Plant Planning and Management	Mr. Neale
Ed.Ad.228su	Special Problems in Educational Administra- tion	Mr. Neale
Ed.Ad.230su	Public Relations for Schools	Arrange
Ed.Ad.234su	Research in Educational Administration	Mr. von Borgers- rode
Ed.Ad.235su	Seminar in Educational Administration	Mr. Neale

Elementary Education

Ed.Ad.115su	Organization of the Elementary School	Mr. von Borgers- rode
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Secondary Education

Ed.Ad.133su	Guidance in Secondary Schools	Mr. Wrenn, Mr. Hahn
Ed.Ad.167su	Junior High Schools	Mr. Anderson
Ed.Ad.265su	High School Administration	Mr. Boardman
Ed.Ad.270su	Special Problems in Secondary Education	Mr. Boardman

Higher Education

Ed.Ad.274su	The Junior College	Arrange
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SECOND TERM

General Courses

Ed.Ad.124su	Public School Administration	Arrange
Ed.Ad.125su	Techniques in Administration	Mr. von Borgers- rode
Ed.Ad.210su	Financial Aspects of Public School Business Administration	Arrange
Ed.Ad.226su	School Plant Planning and Management	Mr. Neale
Ed.Ad.228su	Special Problems in Educational Administra- tion	Mr. Neale
Ed.Ad.235su	Seminar in Educational Administration	Mr. Neale

Elementary Education

Ed.Ad.115su	Organization of the Elementary School	Mr. von Borgers- rode
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Secondary Education

Ed.Ad.133su	Guidance in the Secondary Schools	Mr. Wrenn
Ed.Ad.167su	Junior High School	Mr. Anderson
Ed.Ad.264su	High School Administration	Mr. Boardman
Ed.Ad.270su	Special Problems in Secondary Education	Mr. Boardman

EDUCATIONAL PSYCHOLOGY

FIRST TERM

General Courses

Ed.Psy.60su	Introduction to Statistical Methods	Mr. Fattu
Ed.Psy.120su	Basic Principles of Measurement	Mr. Cook
Ed.Psy.150su	Psychoeducational Clinic (Clinical Practice in Reading)	Mr. Bond, Mr. Tinker
Ed.Psy.208su	Methods in Educational Research	Mr. Johnson
Ed.Psy.216su	Statistical Methods in Education	Mr. Johnson
Ed.Psy.225su	Diagnosis and Counseling in Guidance	Mr. Wrenn
Ed.Psy.233su	Problems in Guidance and Personnel Work	Mr. Wrenn
Ed.Psy.253su	Research Problems	Mr. Johnson, Mr. Wrenn, Mr. Cook, Mr. Van Wagenen
Ed.Psy.281su	Practice in Personnel Work	Mr. Darley
Ed.Psy.291su	Psychology of Individual Differences (See Psychology 109su)	Mr. Carlson
Ed.Psy.293su	Psychology of Learning	Mr. Anderson

Elementary Education

Ed.Psy.114su	Psychology of Elementary School Subjects	Mr. Van Wagenen
Ed.Psy.140Esu	Tests and Measurements in Elementary Educa- tion	Mr. Van Wagenen
Ed.Psy.148su	Development of the Elementary School Child	Miss Mechem

Secondary Education

Ed.Psy.133su	Guidance in Secondary Schools	Mr. Wrenn, Mr. Hahn
Ed.Psy.140Ssu	Tests and Measurements in Secondary Educa- tion	Miss Eckert

SECOND TERM

General Courses

Ed.Psy.120su	Basic Principles of Measurement	Mr. Cook
Ed.Psy.141su	Group Aptitude Testing	Mr. Van Wagenen
Ed.Psy.159su	Personality Adjustments in Education	Mr. Wrenn
Ed.Psy.217su	Statistical Methods in Education	Mr. Johnson
Ed.Psy.233su	Problems in Guidance and Personnel Work	Mr. Wrenn, Miss Edwards
Ed.Psy.253su	Research Problems	Mr. Johnson, Mr. Wrenn, Mr. Cook, Mr. Van Wagenen
Ed.Psy.293su	Psychology of Learning	Mr. Anderson

Elementary Education

Ed.Psy.183su	Education of Gifted Children	Mr. Van Wagenen
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Secondary Education

Ed.Psy.133su	Guidance in Secondary Schools	Mr. Wrenn
Ed.Psy.158su	Psychology of Adolescence	Miss Edwards

GENERAL EDUCATION

FIRST TERM

Ed.51Asu	Introduction to Secondary School Teaching	Mr. Dugan
Ed.51Bsu	Introduction to Secondary School Teaching	Mr. Fattu
Ed.51Csu	Introduction to Secondary School Teaching	Mr. Curtis
Ed.61Asu	Introduction to Elementary School Teaching	Mr. Dugan
Ed.Wsu	Professional Preparation for Teaching	Mr. Anderson

SECOND TERM

Ed.51Asu	Introduction to Secondary School Teaching	Mr. Fattu
Ed.51Bsu	Introduction to Secondary School Teaching	Mr. Fattu
Ed.51Csu	Introduction to Secondary School Teaching	Mr. Curtis
Ed.61Asu	Introduction to Elementary School Teaching	Mr. Fattu

HISTORY AND PHILOSOPHY OF EDUCATION

FIRST TERM

H.Ed.101su	Historical Foundations of Modern Education	Miss Alexander
H.Ed.103su	History of Modern Elementary Education	Miss Alexander
H.Ed.176su	Conflicting Issues in Modern Education	Mr. Brameld
H.Ed.178su	Education and Problems of American Democ- racy	Mr. Brameld

HOME ECONOMICS EDUCATION

FIRST TERM

H.E.Ed.94su	Supervised Teaching in Home Economics	Miss Rose
H.E.Ed.191su	Advanced Special Methods	Miss Rose
H.E.Ed.192su	Educational Measurement in Home Economics	Miss Brown
H.E.Ed.294su	Research Problems	Miss Brown
H.E.Ed.295su	Current Problems	Miss McNeal

INDUSTRIAL EDUCATION

FIRST TERM

Ind.103su	Instructional Aids	Mr. Fryklund
Ind.104su	Vocational Education for Defense Workers	Mr. Widdowson
Ind.107su	Co-ordination	Mr. Widdowson
Ind.111su	Curriculum Procedures	Mr. Fryklund
Ind.200su	Research Problems	Mr. Fryklund

SECOND TERM

Ind.112su	Curriculum Procedures	Mr. Fryklund
Ind.172su	Part-time Education	Mr. Fryklund
Ind.200su	Research Problems	Mr. Fryklund

METHODS AND DIRECTED TEACHING†

FIRST TERM

General Courses

Ed.T.52su	Directed Teaching—Elementary Education	Mr. Anderson
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Elementary Education

Ed.T.55su	Principles of Early Childhood Education	Miss Peterson
Ed.T.56su	Permanent Play Materials	Arrange
Ed.T.57su	Plastic Materials	Miss Headley
Ed.T.76Asu	Methods and Observation, Nursery School	Miss Peterson
Ed.T.76Csu	Methods and Observation, Kindergarten	Miss Headley

Secondary Education

Ed.T.66Amsu	The Teaching of Composition in the Senior High School	Mr. Voelker
Ed.T.66Bmsu	The Teaching of Literature in the Senior High School	Mr. Voelker
Ed.T.69Am,Bmsu	Methods of Teaching the Social Studies	Mr. Carr

MUSIC EDUCATION

FIRST TERM

Mu.Ed.4-5-6su	Applied Instrumental Technique	Mr. Pepinsky
Mu.Ed.50Asu	Primary Methods	Mrs. Nohavec
Mu.Ed.54su	Operetta Production	Mrs. Nohavec
Mu.Ed.65su	Instrumentation	Mr. Pepinsky
Mu.Ed.220Esu	Survey and Application of Research in Music Education	Mrs. Nohavec
Mu.Ed.224Esu	Seminar and Individual Research Problems in Music Education	Mr. Pepinsky, Mrs. Nohavec
Mu.Ed.225Esu	Advanced Applied Music	Arrange

See also courses offered in the Music Department of the College of Science, Literature, and the Arts.

See Institute of Child Welfare, pages 60-61, for additional courses.

PHYSICAL EDUCATION AND ATHLETICS

PHYSICAL EDUCATION FOR MEN†

FIRST TERM

5A,B,Csu	Physical Education Activities	Mr. Piper, Mr. Beise
6A,B,Csu	Intramural Sports	Mr. Bartelma
7A,B,Csu	Recreational Games and Sports	Mr. Bartelma, Mr. Beise
50su	Human Anatomy	Mr. Osell
51su	Mechanics of Movement	Mr. Osell
53,54,55su	Methods and Materials in Physical Education	Mr. Bartelma
63su	Organization and Administration of Physical Education and Athletics	
67su	Football Coaching	Mr. Piper
103Esu	Physical Examination and Adaptation of Activities	Mr. Beise
133Esu	Special Administrative Problems in Physical Education in Secondary Schools	Arrange
134Esu	The Curriculum in Physical Education in Secondary Schools and Colleges	Mr. Nordly
135Esu	Tests and Measurements in Physical Education	Mr. Nordly
138Esu	Administration of Physical Education in Colleges and Universities	Mr. Keller
237Esu	Problems in Physical Education	Mr. Keller Mr. Nordly

SECOND TERM

101Esu	Principles of Physical Education	Mr. Keller
134Esu	The Curriculum in Physical Education in Secondary Schools and Colleges	Mr. Nordly
135Esu	Tests and Measurements in Physical Education	Mr. Nordly
136Esu	Leadership in Community Recreation	Mr. Keller
137Esu	Recent Literature and Research in Physical Education	Mr. Haislet
141Esu	Administration and Supervision of Public Recreation	Mr. Nordly
237Esu	Problems in Physical Education	Mr. Haislet Mr. Nordly

PHYSICAL EDUCATION FOR WOMEN†

FIRST TERM

4su	Fundamentals of All Rhythm	Arrange
5su	Methods of Coaching and Conducting Team Games for the Junior and Senior High School	
7su	Tennis for Beginners	Miss Snell
8su	Golf for Beginners	Miss Tenney
10su	Teachers Course in Fundamentals of Physical Education	Miss Tenney
13su	Tumbling, Stunts, and Pyramids for Senior High Schools	Miss Tenney
18su	Elementary Folk Dancing and Games	Arrange
33su	Intermediate and Advanced Swimming	Miss Snell
37su	Individual and Dual Games	Miss Starr
52su	Principles and Curriculum of Physical Education	Miss Tenney
		Miss Baker

† Courses marked "E" carry credit toward the degree of master of physical education.

53su	Organization and Administration of Physical Education	Miss Snell
65su	Integration of Special Methods	Arrange
90su	Student Teaching	Miss Starr
112Esu	Supervision of Physical Education	Miss Baker
114Esu	The Administration of the Health Education Program	Miss Starr

SECOND TERM

32su	Elementary Swimming	Miss Starr
33su	Intermediate Swimming	Miss Starr
37su	Individual and Dual Games	Miss Starr
52su	Principles of Physical Education	Arrange
63su	Technique of Teaching Folk Dancing	Arrange
111Esu	Advanced Course in Methods of Physical Education	Miss Starr

SCHOOL OF BUSINESS ADMINISTRATION

FIRST TERM

Econ.3su	Elements of Money and Banking	Mr. Graves
Econ.5su	Elements of Statistics	Mr. Graves
Econ.6su	Principles of Economics	Mr. Boddy
B.A.54su	Elementary Accounting—Combined Course	Mr. Heilman
B.A.89su	Production Management	Mr. Filipetti
B.A.101su	Advanced General Economics	Mr. Boddy
B.A.139su	Advanced General Accounting	Mr. Heilman
B.A.142su	Advanced Money and Banking	Mr. Marget
Econ.149su	Business Cycles	Mr. Marget
Econ.175su	Government Regulation and Business	Mr. Garver
Econ.178su	Consumer Economics	Mr. Vaile
Econ.185su	Economics of Marketing	Mr. Vaile
Econ.189su	Principles of Taxation	Mr. Blakey
Econ.204su	Seminar in Economic Theory	Mr. Garver

SECOND TERM

Econ.7su	Principles of Economics	Arrange
B.A.55su	Elementary Accounting—Combined Course	Mr. Reighard
B.A.102su	Advanced General Economics	Mr. Mudgett
B.A.112su	Business Statistics	Mr. Mudgett
B.A.135su	Auditing and Public Accounting	Mr. Reighard
B.A.146su	Investments	Mr. Stehman
B.A.155su	Corporation Finance	Mr. Stehman
Econ.161su	Labor Problems and Trade Unionism	Mr. Yoder
B.A.167su	Personnel Administration	Mr. Yoder

INSTITUTE OF CHILD WELFARE

FIRST TERM

C.W.40su	Child Training	Arrange
C.W.130su	Motor, Linguistic, and Intellectual Development of the Child	Mr. Anderson
C.W.132su	The Development of the Elementary School Child	Miss Mechem
C.W.140su	Behavior Problems	Miss Mechem
C.W.270su	Readings in Child Development	Mr. Anderson

Courses Ed.T. 55su, 56su, 57su, 76Asu, and 76Csu under Methods and Directed Teaching and Ed.Psy. 148su under Educational Psychology in the College of Education are also offered by the institute.

SECOND TERM

C.W.80su	Child Psychology	Arrange
C.W.131su	Personality, Emotional, and Social Development of the Child	Mr. Harris
C.W.140su	Behavior Problems	Mr. Harris
C.W.270su	Readings in Child Development	Mr. Harris

LIBRARY INSTRUCTION

FIRST TERM

Lib.Meth.54su	Classification	Mr. Noggle
Lib.Meth.62su	Reference	Mr. Noggle
Lib.Meth.64su	Adolescent Book Selection	Miss Scott
Lib.Meth.67su	Printing	Mr. Shove
Lib.Meth.69su	Current Library Problems	Miss Hutchinson
Lib.Meth.74su	Selection of Books for Adults	Miss Hutchinson

SECOND TERM

Lib.Meth.52su	Cataloging	Miss Brainard
Lib.Meth.54su	Classification	Miss Brainard
Lib.Meth.57su	School Library Administration	Miss Ersted

PARTIAL LIST OF VISITING FACULTY

- Brainard, Edith M., M.A., Librarian, Southwestern College, Winfield, Kansas
- Buell, Murray F., Ph.D., Assistant Professor of Botany, State College of Agriculture and Engineering, University of North Carolina, Raleigh, North Carolina
- Ersted, Ruth M., B.S., Supervisor of School Libraries, Minnesota State Department of Education, St. Paul, Minnesota
- Gray, James, B.A., Novelist and Journalist, *St. Paul Pioneer Press-Dispatch*, St. Paul, Minnesota
- Griffiths, William, M.A., Social Hygienist, Minnesota State Board of Health, Minneapolis, Minnesota
- Hudson, Hoyt H., Ph.D., Professor of Rhetoric and Oratory and Chairman of the Department of English, Princeton University, Princeton, New Jersey
- Laabs, Alma M., M.A., Co-ordinator of Schools and Social Agencies, Community Chest, St. Paul, Minnesota
- Noggle, Wave L., M.S., Librarian, Virginia Junior College, Virginia, Minnesota
- Nyswander, Dorothy, Ph.D., Director of the District Health Education Demonstration, Department of Health, New York, New York
- Quinlan, Lucile A., M.A., Training Consultant, Bureau of Personnel, Division of Social Welfare, St. Paul, Minnesota
- Scott, Carrie E., B.A., New York State Library Certificate, Supervisor of Children's Work and Director of Training Class, Indianapolis Public Library, Indianapolis, Indiana
- von Borgersrode, Fred, Ph.D., Director of Research, Minnesota Education Association, St. Paul, Minnesota

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