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Bulletin of The University of Minnesota

THE PRESIDENT'S REPORT

1914-1915



VOL. XIX, NO. 1. DECEMBER 1916

Entered at the Post-Office
in Minneapolis as second-class matter
Minneapolis, Minn.

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THE PRESIDENT'S REPORT

To the Board of Regents of the University of Minnesota:

GENTLEMEN: I herewith submit my report for the year ending July 31, 1915. In reporting changes in the personnel of the teaching staff, I include only men and women of professorial rank.

Resignations.—During the year the following men of professorial rank resigned from the faculty: George F. James, Professor of Education and Dean of the College of Education; Edward Van Dyke Robinson, Professor of Economics in the College of Science, Literature, and the Arts; John Zeleny, Professor and Head of the Department of Physics in the College of Science, Literature, and the Arts; Howard R. Smith, Professor of Animal Husbandry, in the Department of Agriculture; Charles Lyman Greene, Professor of Medicine in the Medical School; Thomas B. Hutcheson, Associate Professor of Agronomy and Associate Agronomist of the Experiment Station; Ernest W. Major, Associate Professor of Animal Nutrition; George D. Head, Associate Professor of Medicine in the Medical School; Paul H. Neystrom, Associate Professor of Economics in the General Extension Division; J. Burt Miner, Assistant Professor of Psychology in the College of Science, Literature, and the Arts; J. Paul J. Williams, Assistant Professor of Structural Engineering, in the College of Engineering; Louis D. H. Weld, Assistant Professor of Economics and Chief of the Division of Research in Agricultural Economics, in the Department of Agriculture; Louise McDanell, Assistant Professor of Foods and Cookery in the College of Agriculture; Dr. James S. Gilfillan, Assistant Professor of Medicine, in the Medical School; Samuel Quigley, Assistant Professor of Education, in the College of Education.

Deaths.—Dr. Samuel G. Smith, Professor of Sociology and Anthropology, died March 25, 1915.

Leaves of absence granted during the year.—Dean George F. James, for six months from October 1, 1914, on full pay. Professor Francis P. Leavenworth until October 15, to continue work in Yerkes Observatory; Professor Gisle Bothne, for the first semester of the academic year 1914-15 on full pay; Assistant Professor Frank F. Grout for the year 1915-16 on half pay; Pro-

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fessor Anthony Zeleny for one year beginning August 1, 1915, on half salary; Professor William H. Kavanaugh for one month beginning April 30, 1915, with full pay, to act as member of the International Jury of Awards, Department of Machinery, at the Panama-Pacific Exposition; Dean William R. Appleby for the remainder of the school year, beginning May 7, 1915, with full pay, to act as a member of the Jury of Awards, Section of Mines and Metallurgy, at the Panama-Pacific Exposition; Professor David F. Swenson for the year beginning August 1, 1915, on half salary; Professor Andrew A. Stomberg for the second semester of the academic year 1915-16, on full pay.

Appointments.—The following appointments to positions of professorial rank were made during the year:

Lotus D. Coffman, Professor of Education and Dean of the College of Education.

B.A., 1906, M.A., 1910, Indiana University; Ph.D., 1911, Columbia; Superintendent, Salem, Indiana, 1903-6; Superintendent, Connersville, Indiana, 1906-8; Director of Practice in Normal School, Charleston, Illinois, 1908-12; Professor of Education, University of Illinois, 1912-15.

Thomas S. Roberts, Professor of Ornithology and Associate Curator of the Zoological Museum.

M.D., 1885, University of Pennsylvania; Professor of Pediatrics, University of Minnesota, 1906-13.

Elmer E. Stoll, Professor of English in the College of Science, Literature, and the Arts.

B.A., 1895, M.A., 1896, Harvard University; Ph.D., 1904, Munich; Instructor in English, Adelphi College, 1900-02; Instructor in English, Harvard University, 1905-06; Assistant Professor of English, Western Reserve University, 1906-12; Professorial Lecturer in English, University of Minnesota, 1914-15.

A. J. Todd, Professor of Sociology.

B.L., 1904, University of California; Ph.D., 1911, Yale University; 1909-10 at University of Aix-Marseilles, University of Paris, University of Munich, College de France; Instructor in Sociology, University of Illinois, 1911-12; Associate Professor of Sociology, University of Illinois, 1912-14; Professor of Sociology, University of Pittsburgh, 1914-15.

Joseph Peterson, Professorial Lecturer in Psychology in the Department of Philosophy and Psychology.

B.S., 1905, Ph.D., 1907, University of Chicago; Instructor in Psychology and Education, Drake University, Iowa, summer of 1907;

Professor of Psychology, Brigham Young University, Provo, Utah, 1907-11; Head Department of Psychology, University of Utah, 1911 to 1915; Professor of Psychology, University of Chicago, summer of 1915.

Charles L. Pillsbury as Professorial Lecturer in the College of Engineering.

Mac Martin, Professorial Lecturer in Advertising in the General Extension Division.

President Mac Martin Advertising Agency.

Edgar E. Robinson, Resident Lecturer in the Department of History of the College of Science, Literature, and the Arts.

B.A., 1908, M.A., 1910, University of Wisconsin; Acting Professor of History, Carleton College, 1910-11; Assistant Professor of American History, Leland Stanford Junior University, 1911-15.

Dr. W. F. Braasch, Professor of Urology in the Medical School.

B.S., 1900. M.D., 1903, University of Minnesota; Vienna Post Graduate Course one year; Interne, Minneapolis City Hospital one and a half years; Assistant City Physician, Minneapolis, two years; Mayo Clinic, Rochester, Minnesota, 1907-14.

Dr. Russell D. Carman, Professor of Roentgenology.

M.D., 1901, St. Louis University; Johns Hopkins, 1901-2; University of Pennsylvania Hospital, 1902; Children's Hospital, Boston, 1903; St. John's Skin and Cancer City Hospital, 1905-12; Assistant in Surgery, Marion-Sims College of Medicine, 1902-07; Assistant in Roentgenology, 1907-09; Assistant Professor of Roentgenology, 1909-10; Instructor in Roentgenology, Medical Department, Washington University, 1910-12; Mayo Clinic, 1913-14.

Dr. Christopher Graham, Professor of Medicine.

B.A., 1887, University of Minnesota; M.D., 1894, University of Pennsylvania.

Dr. Charles H. Mayo, Professor of Surgery.

M.D., 1888, M.A., 1902, Northwestern University; LL.D., 1909, University of Maryland; F.A.C.S., 1913, American College of Surgeons; Surgeon, Mayo Clinic, Rochester, Minnesota, 1888-1914.

Dr. Henry S. Plummer, Professor of Medicine.

M.D., 1898, Northwestern University; Mayo Clinic, Rochester, Minnesota, 1902-14.

Dr. Edward C. Rosenow, Professor of Experimental Bacteriology.

M.D., 1902, Rush Medical College; Fellow Pathological Division, Rush Medical, 1902-04; Fellow Medical Division, Rush Medical, 1904-06; Instructor, Rush Medical, 1907.

Dr. Louis B. Wilson, Professor of Pathology.

B.E., State Normal School, California, Pennsylvania; M.D., 1896, University of Minnesota; Instructor, California Normal School, California, Pennsylvania, 1886-7; St. Paul Central High School, Department of Biology, 1888-1896; Assistant Professor Pathology and Bacteriology, University of Minnesota, 1896-1905; Assistant Director Minnesota State Board of Health Laboratory, 1896-1905; Mayo Clinic, Rochester, Minnesota, 1905-14.

Herbert K. Hays, Associate Professor of Plant Breeding, in the College of Agriculture.

B.S., 1908, Massachusetts Agricultural College; M.S., 1911, Harvard; U. S. Department of Agriculture, Tobacco Investigation, 1909-10; Assistant Agriculturist, Connecticut Experiment Station, 1910-11; Plant Breeder, Connecticut Experimental Station, 1911-14.

Arthur J. McGuire as Agriculturist in the Agricultural Extension Division with the rank of Associate Professor.

B.S. in Agr., 1904, University of Minnesota.

Adolph F. Meyer as Associate Professor of Hydraulics in the College of Engineering.

B.C. in Civil Engineering, 1905, University of Wisconsin; C.E., 1909, University of Wisconsin; Professorial Lecturer, University of Minnesota, 1912-14.

Emil H. Beckman, Associate Professor of Surgery in the Medical School.

Ph.B., 1894, Grinnell College; M.D., 1901, University of Minnesota; Minnesota State Board of Health, 1901-05; City Physician, Minneapolis, 1 year and 9 months; Surgeon, Mayo Clinic, Rochester, Minnesota, 1907-14.

Dr. Carl Fisher, Associate Professor of Ophthalmology and Otology.

B.S., 1901, Carleton College; M.D., 1905, Harvard Medical School; European Clinics, 7 months, 1907; Externe, Infants' Hospital, Boston, 1904; Interne, Massachusetts Char. Eye and Ear Infirmary, 1905-07; Clinical Assistant, Massachusetts General Hospital, Nose and Throat, 1907-08; Carney Hospital, Boston, Ophthalmology, 1908; Mayo Clinic, Rochester, Minnesota, 1909-14.

Dr. Herbert Z. Giffin, Associate Professor of Medicine.

B.S., 1900, Princeton University; M.D., 1904, Johns Hopkins Medical School; Medical Interne, Johns Hopkins Hospital, 1904-05; Assistant Instructor Pathology and Clinical Medicine, Johns Hopkins Medical School, 1904-05; Interne, Children's Hospital, Philadelphia, Pennsylvania, 1905-06; Mayo Clinic, Rochester, Minnesota, 1906-14.

Dr. Melvin S. Henderson, Associate Professor of Orthopedia.

M.B., 1906, M.D., 1914, University of Toronto; Clinics of England and Scotland, two months; Robert Jones, Liverpool, November, 1911; Interne City and County Hospital, St. Paul, Minnesota, 1906-07; Mayo Clinic, Rochester, Minnesota, 1907-14.

Dr. Edward S. Judd, Associate Professor of Surgery.

M.D., 1902, University of Minnesota; Internship at St. Mary's Hospital, Rochester, Minnesota, one year; Surgeon, Mayo Clinic, Rochester, Minnesota, 1904-14.

Dr. William C. McCarty, Associate Professor of Pathology.

M.S., 1900, Kentucky State University; M.D., 1904, Johns Hopkins University; Fellow Instructor, Botany, Kentucky State University, 1899-1900; Assistant Pathologist, Hospitals in Berlin, 1904-05; Mayo Clinic, Rochester, Minnesota, 1907-14.

Dr. Justus Matthews, Associate Professor of Rhinology and Laryngology.

M.D., 1905, University of Minnesota; Minneapolis City Hospital, 1905-06; Mayo Clinic, Rochester, Minnesota, 1906-14.

Dr. Walter D. Sheldon, Associate Professor of Medicine.

B.S., 1891, University of Wisconsin; M.D., 1895, Rush Medical College; University of Vienna, 1901-03; Cook County Hospital, 1895-97; Clinical Instructor in Medicine, 1906-10; Clinical Professor of Medicine, 1910-13; Mayo Clinic, Rochester, Minnesota, 1913-14.

Roy G. Blakey, Assistant Professor of Economics, College of Science, Literature, and the Arts.

Ph.B., 1905, Drake University; M.A., 1910, University of Colorado; Ph.D., 1912, Columbia University; Assistant Professor of Economics, Cornell University, 1912-15.

Solon J. Buck, Assistant Professor of History.

B.A., 1904, M.A., 1905, University of Wisconsin; Ph.D., 1911, Harvard University; Instructor in History, Indiana University, 1910; Research Assistant, University of Illinois, 1910-11; Research Associate, University of Illinois, 1911; Associate Professor of History, University of Illinois, 1913-14.

Elmer J. Lund, Assistant Professor of Zoology.

Ph.B., 1910, Hamline University; Ph.D., Johns Hopkins, 1914; Instructor in Zoology at the Marine Biological Laboratory, Woods Hole, Massachusetts, summers 1912-13-14-15; Instructor in Zoology, University of Pennsylvania, 1914-15.

Robert C. Ashby, Assistant Professor of Animal Husbandry in charge of the section of Swine Husbandry, in the College of Agriculture.

B.A., 1908, University of Nebraska; B.Sc., 1910, Nebraska Wesleyan University; M.A., 1915, University of Minnesota; Instructor in Animal Husbandry, University of Nebraska, 1908-09; Adjunct Professor of Animal Husbandry, University of Nebraska, 1909-10; Assistant Superintendent, Farmers' Institute, Washington State College, May-October, 1910; Assistant Superintendent Farmers' Institutes and Extension Work, Washington State College, October, 1910-April, 1911; Professor Animal Husbandry, Washington State College, September, 1912, to March, 1914.

Alice Biester, Assistant Professor of Nutrition.

B.A., 1912, University of Illinois; M.A., 1913, University of Illinois; Dietitian, Illinois Training School, Cook County Hospital, Chicago, summer of 1911; University of Illinois, Summer Session, Assistant Home Economics, 1913; Purdue University, 1913-15, Summer Sessions, 1914-15; Instructor in Home Economics, Acting Head of Department, Summer Session, 1915, Purdue.

William Forbes, Assistant Professor of Dairy Husbandry and Assistant Dairy Husbandman in the Experiment Station.

B.Sc., 1912, M.A., 1914, University of Nebraska; Assistant in Laboratory, University of Nebraska, 1909-10; Assistant and Lecturer in Dairy Stock Judging and Dairy Practice, University of Nebraska, 1910-12; U. S. Department of Agriculture, 1912-15.

Gustav W. Gehrand, Assistant Professor of Dairy Husbandry.

Graduated from State Normal School, Whitewater, Wisconsin, 1894; Ph.B., 1903, M.S., 1916, University of Wisconsin.

Dr. Alexander R. Colvin, Assistant Professor of Surgery.

M.D., 1894, McGill Medical College; House Surgeon Royal Victoria Hospital, Montreal, 1894-96; Post Graduate work at Breslau, Vienna, Munich, 1901-02.

Promotions.—Edward E. Nicholson to be Assistant Dean in the College of Science, Literature, and the Arts; Dr. Richard O. Beard to be Assistant Dean and Secretary of the Medical School; Henry A. Erikson from Associate Professor to Professor; Jeremiah S. Young from Associate Professor to Professor; Robert M. Washburn from Associate Professor to Professor; Elexious T. Bell from Assistant Professor to Associate Professor; Peter J. Brekhus from Assistant Professor to Associate Professor; Robert O. Green from Assistant Professor to Associate Professor; Harry C. Lawton from Assistant Professor to Associate Professor; George W. Reynolds from Assistant Professor to Associate Professor; Maxwell J. Dorsey from Assistant Professor to Associate Professor; Alois F. Kovarik from Assistant Professor to Associate Professor; Winford P. Larson from As-

sistant Professor to Associate Professor; Alfred A. Pagenkopf from Assistant Professor to Associate Professor; Charles Wiethoff from Assistant Professor to Associate Professor; Oscar Cooperman from Instructor to Assistant Professor; Carl O. Flagstad from Instructor to Assistant Professor; Roy C. Jones from Instructor to Assistant Professor; Robert S. Maybury from Instructor to Assistant Professor; Louis W. McKeehan from Instructor to Assistant Professor; Mark O. Pattridge from Instructor to Assistant Professor; William A. Roll from Instructor to Assistant Professor; John F. Shellman from Instructor to Assistant Professor; Ralph W. Countryman from Instructor to Assistant Professor; Harriet Goldstein from Instructor to Assistant Professor; August C. Krey from Instructor to Assistant Professor; William McDougall from Instructor to Assistant Professor; James F. McClendon from Instructor to Assistant Professor; Franklin R. McMillan from Instructor to Assistant Professor; Charles H. Petri from Instructor to Assistant Professor; Charles E. Rudolph from Instructor to Assistant Professor; Mabel B. Trilling from Instructor to Assistant Professor; Grace I. Williams from Instructor to Assistant Professor.

ADMINISTRATIVE CHANGES

Honors in Agriculture.—On the recommendation of the Department of Agriculture the Regents have adopted a form of honorable recognition for men and women who have made contributions to the development of Agriculture, especially of the State of Minnesota. These honors have been awarded during the year to the following persons: Mr. Oren C. Gregg, Lynd, Minnesota, in appreciation of his efforts in developing the work of farmers' institutes; Mr. Charles G. Patten, Charles City, Iowa, in appreciation of his services as a pioneer breeder of fruits; Mr. William Gates LeDuc, Hastings, Minnesota, in appreciation of his services as a pioneer promoter of agriculture and administrator of agricultural research and education; Mr. Alanson Winslow Latham, Minneapolis, Minnesota, in appreciation of his services as a promoter and organizer of horticulture.

Required Military Camp.—On the recommendation of the Commandant the Regents have voted to make compulsory for all

students subject to military drill, a camp during the first week of June, 1916. This action was taken with the belief that a week's encampment will be of marked military value. Authorities agree that the ordinary close formation drills, exercise in the manual of arms, etc., while they have an important bearing upon development of discipline, do not afford the practical experience and training which camp life, maneuvers in the field, etc., supply. It is believed that the example set by Minnesota will be followed by the other institutions, and will constitute an important contribution to the development of military training in American universities.

The use of University property by religious organizations.—The following action was adopted during the year by the Board of Regents: "It is the policy of the University that none of its property shall be used exclusively for the purpose of any religious society or organization. It is recognized that the work of various student religious organizations is useful and beneficial and, therefore, the President of the University, with the approval of the Board, is authorized to grant permission, subject to revocation at any time, to any such organization temporarily to use any space or room, when not needed for University purposes, to hold meetings and to have desk room for its secretary in any place or room which may be used for that purpose without interfering with the regular work of the University. It is distinctly understood that all such organizations shall be accorded equal treatment without discrimination of any kind."

Changes in the University Dispensary.—In order to provide more satisfactory quarters, and at the same time to utilize more fully the new buildings of the Medical School, it was decided to transfer the Out-Patient Department from the old building near Seven Corners to the basement of the New Millard Hall. A thoro remodeling of the quarters has provided excellent facilities for this important work of the Medical School and Hospital. At the same time that the transfer of the Dispensary was made, the authorities were authorized to charge a fee of ten cents per patient with the proviso that this fee might be waived in the case of patients unable to meet even this nominal expense. It is believed that in its new location the Dispensary will not suffer in attendance except temporarily, and will be much more valuable, both for the public and the purposes of medical educa-

tion. The concentration of the staff in the one building will make for efficiency and will foster *esprit de corps*.

EDUCATIONAL POLICIES

Graduate work in Medicine and Surgery.—On May 6, 1915, the Regents unanimously adopted the report and the recommendations of the Executive Committee upon a plan to establish at Rochester, Minnesota, graduate instruction and research in coöperation with the Mayo Foundation. The report of the Committee reads as follows: "The Committee believes that the extension of graduate teaching proposed would enable the University to serve the State by insuring more expert medical service to its people, by furthering research into the causes, cure, and prevention of disease, by protecting the public by a system of educational standards, diplomas, and degrees for specialists, against incompetency and exploitation. The Committee recommends, therefore, that the University establish graduate work at Rochester, Minnesota, that such work be directed by the Graduate School through its Dean and the Medical School Graduate Committee, that professors and other teachers be appointed or nominated by the same committee to carry on graduate teaching and research at Rochester, and that the offer of clinical and other facilities or gifts made by the Mayo Foundation be accepted." At the same time an agreement was entered into with the Mayo Foundation. This agreement provides that during a period of six years a fund of \$1,500,000 shall be held by trustees who shall add the net income to the principal sum until September, 1921. The Mayo Foundation will grant to the University free use of laboratory and clinical facilities at Rochester, Minnesota, and will also pay all salaries fixed by the Board of Regents and payable to professors, assistant professors, and instructors appointed by the Board for service in connection with the Mayo Foundation. Unless the agreement is terminated before September, 1921, upon one year's notice given by either of the parties to the other, the principal and the accumulated interest of the endowment fund will be transferred to the University Regents with the stipulation that the principal shall always be kept intact by the Board, and that the income from the fund shall be used for the purposes of gradu-

ate medical and surgical instruction and research, carried on under the direction of the Board of Regents at Rochester, Minnesota, with the understanding that appropriations may be made for carrying on medical investigation anywhere within or outside the State of Minnesota. In accordance with the above agreement, the Regents on July 26, 1915, provided for the organization of the Medical Graduate Committee to consist of nine members as follows: The President of the University, the Dean of the Graduate School, and the Dean of the Medical School, together with six appointed members to serve for a period of three years. The appointed members shall be chosen, three from the members of the Graduate Faculty on the Mayo Foundation, and three from the members of the University Faculty who are doing graduate teaching. This Graduate Committee was duly organized and entrusted with the duty of nominating members for appointment to the staff, with the recommending of a budget for the Mayo Foundation, and such other administrative duties as naturally devolve upon a body of this kind.

A four-year course in Dentistry.—On the recommendation of the faculty of the College of Dentistry the Regents voted to approve the establishment, beginning September, 1916, of a four-year course in Dentistry on the condition that a majority of the Dental Colleges in the University Association agree to adopt a similar policy. It was later agreed, however, that the University of Minnesota would undertake to establish a four-year course independently of the action of other institutions. The Regents were convinced that the College of Dentistry was in a position to take the lead in this movement and that the University was justified in assuming the risk involved. Dental education has been developing so rapidly that it is quite impossible to provide in a three-year course the scientific foundations, the training in technique, and the actual clinical experience which are necessary for the training of dental surgeons of the best type.

Raising of the College of Pharmacy standards.—Heretofore there has been no fixed standard for admission to the College of Pharmacy. Students have been admitted on the basis of apparent ability to profit by the curriculum of the College. For some time the leaders in Pharmacy in the United States have been urging the adoption of a higher standard of admission. The Minnesota Pharmaceutical Association has supported this proposal. On the

recommendation of the College of Pharmacy the Regents have voted to require for entrance to that Department of the University a high school course or its equivalent. This standard will become effective in September, 1916. Not only have the entrance requirements been raised but it has been further decided to increase the length of the course from two to three years. This policy recognizes the need of a more thoro course in the scientific as well as the technical aspects of Pharmacy. The change is in harmony with the general movement toward higher efficiency in the various professions, especially those which have to do with individual and public health.

Teaching Fellowships in Medicine.—On the recommendation of the Administrative Board of the Medical School the Regents have established a system of Graduate Fellowships to be known as Teaching Fellowships. These fellowships are designed to provide an opportunity for men of promise to pursue graduate courses and to perfect themselves in the technique of the profession. The fellowships carry a stipend of \$500 for the first year, \$750 for the second, and \$1,000 for the third, together with exemption from tuition fees. These graduate fellows are expected to render service as Assistants to the members of the teaching staff both in class room and in laboratory. If these fellowships prove successful it is the intention of the Medical School to recommend that the system be extended by the annual addition of a certain number of fellowships to the original five.

THE STUDENTS

High school and college records.—Attention was called in the report for last year to the fact that there is an obvious connection between high school standing and college grades. The student who does well in his secondary course is likely to maintain the same relative position in college. There are, it is true, individual exceptions. Experience has shown that to exclude all high school graduates who fail to reach a higher grade than that required for a diploma, would work a hardship upon a considerable number who are capable of profiting by college work. The Secretary of the Department of Agriculture has made a careful study of the records in the College of Agriculture and Forestry of matriculating students who are distributed into two groups, those

who have high school records of "pass with credit" and those who were graduated with merely "pass" marks. The results are reported on p. 60.

The Charlotte Winchell House.—The success of the first co-operative cottage for women students, the Elizabeth Northrop House, has led to the equipping of another of the campus houses and the opening of it to fifteen occupants. The Regents have fixed a moderate rent, which includes heat from the University's central heating plant. Committees of the Alumnae and of the Faculty Women's Club coöperated in furnishing and equipping the house. It is hoped that these two houses may be but the beginning of a steadily extended system of residence cottages managed on a coöperative basis. While these cottages are primarily designed for the use of self-supporting students, it is not the policy to exclude a certain number of women who could afford a more expensive scale of living. This practice preserves the essential democracy of the plan without doing serious injustice. These coöperative cottages should not be confused with the houses maintained by the Department of Home Economics as experiment stations for determining living costs and affording training in household management. The former do not pay market costs for either rent or heat, while the latter are run on the basis of current prices for all expenses. The average cost of living in the two campus houses is \$16 per month for each student.

Student self-government.—This form of social control is making steady progress. The All-University Students' Council, the various College Councils and the Woman's Self-Government Association have shown an increasing sense of responsibility. All questions which involve student offenses against the University Community are referred to the Committee for investigation and report. Student recommendations are almost invariably carried out by the Faculty. At the request of the All-University Student Council the Faculties of the College of Agriculture, the Law School, and the College of Science, Literature, and the Arts adopted the honor system. Under this plan the students assume responsibility for enforcing honesty in examinations and other forms of testing scholarship. The adoption of this policy is an encouraging sign of awakened sense of social responsibility. The outcome of the experiment will be watched with interest. The Senate Committees on Student Publications, Student Affairs,

Finance and Audit, and Debate and Oratory are in a sense a part of the self-government system, for on all these bodies the students outnumber the faculty representatives. It is noteworthy that these committees almost never divide on a faculty vs. student basis. The members of these groups work together coöperatively and with gratifying good feeling and mutual confidence. The University is increasingly a place in which young men and women are receiving a practical training in the problems and methods of self-government.

Intra-mural sports.—The reports of the Directors of Physical Education and of the Chairman of the Senate Committee on Intra-Mural Sports show that progress is being made in widening student participation in competitive games. There are, however, a number of difficulties in the way of extending the system to practically all students. Hundreds of students live at a distance from the Campus; playing fields, tennis courts are wholly inadequate; the Armory gymnasium is too small, is poorly planned and lacks modern equipment; the staff is under-manned and over-worked. With the completion of the gymnasium for women and the new gymnasium at the University Farm, the solution will be somewhat improved. This problem demands careful study. It is closely related to another, health supervision, in which much needs to be done. The creation of a central agency, the appointment of a University Health Officer and the working out of a complete system of housing inspection, dispensary service, contagious hospital, courses of instruction in personal hygiene and public health, etc., are measures which it is unfortunate and dangerous to postpone.

Student advisers for freshmen.—A difficult problem in a large institution is to establish relations with freshmen and help them to adjust themselves to college life. Deans and faculty members can discharge routine duties of office and class-room, but they find it hard to establish personal relations with so large a number of individuals. A plan has been put into operation in the College of Science, Literature, and the Arts which promises assistance at this point. Thirty-five to forty senior men and a smaller number of junior women have volunteered to serve as advisers to freshmen. At registration time each entering student is assigned to one of these advisers, whose duty it is to aid the newcomer to fit himself into the community life. The adviser is a

friend of the student, not an employee of the Faculty. He gives counsel, introduces his protégé to the Minnesota Union, shows him about the buildings and grounds, talks with him about his studies, appeals to Deans and instructors in his behalf—in short, tries in a brotherly way to make the newcomer feel at home and to give him a right start. The students who have volunteered for this service are almost without exception diligent and devoted to the plan which gives promise of permanent success.

Fraternities and sororities.—The average scholarship of these groups has, until recent years, been distinctly lower than that of the non-society students. Of late special efforts have been made by the University authorities, with the coöperation of Alumni and the fraternities and sororities themselves, to stimulate scholarship in the societies. A change in the method of rating these groups makes it impossible to compare accurately the averages of this year (1914-15) and of last. It is the judgment of the officer in charge of the records that the slight lead of the non-fraternity group reported last year (1913-14) has been overcome, and that the fraternity average for the current year is almost the same as that of the students who do not belong to secret societies. Efforts to induce the fraternities to give up the practice of pledging high-school students have not been successful. This reform is desirable, but experience shows that any attempt to enforce such a policy by faculty action is futile, and merely leads to evasion and deceit. It is hoped that fraternity opinion and self-regulation will deal with this problem. In the sororities "rushing" features of the first semester were so hostile to good scholarship that the Pan-Hellenic Association passed the following regulation: "There shall be no initiation of freshman students until the second semester, and then, only if they have passed in all hours of their previous semester's work." This affords a gratifying example of self-government.

Student loan fund.—As a result of leasing certain property in St. Paul, a part of the bequest of the late Mr. John D. Luddick, an annual income of \$3,000 has become available for assisting students. For the administration of this fund the Regents have adopted the general regulations which control the use of the C. C. Fillan Fund with these modifications: aid is not limited to residents of the State nor to undergraduates, nor to students who have completed one semester's attendance at the University.

STATISTICS OF REGISTRATION

Table I shows the comparative registration figures of students of collegiate grade for the years 1913-14 and 1914-15. This group includes only those departments in which graduation from a four year High School course is included in the requirements for entrance. The totals of this group are used in comparing Minnesota with other Universities and Colleges. The substantial net gain of 597 is made up principally from Science, Literature, and the Arts, Agriculture, and Summer Session, altho Engineering, Medicine, Nurses, and Graduate School show advances. Departments showing losses are Dentistry, Mines, Chemistry, and Education. The increase of 226 in Arts, 120 in Agriculture, and 37 in Engineering, is largely in the freshman class and is undoubtedly explained by the abrogation of the "Pass with Credit" rule. The Law School, while merely holding its own on total figures, shows an increase in the first year class. The Medical School shows a healthy expansion in unclassified and first and second year groups. The School for Nurses shows the largest percentage gain of all, 46 per cent. Dentistry's loss of 9 causes no apprehension. Pharmacy's gain of 3 is in the first year. The loss in the first year groups in Mines and Chemistry may be explained by the fact that the "Pass with Credit" rule was withdrawn from Arts. Possibly the lack of permanent quarters and temporary submersion of the School in the Engineering building had a deterring effect. The loss of 3 in Education is insignificant. The increase of 56 in the Graduate School comprises 30 men and 26 women. The respective percentage increases, however, are 25 and 53.

TABLE I. COLLEGIATE STUDENTS BY COLLEGES AND SCHOOLS, 1913-15

COLLEGE OR SCHOOL	1913-14			1914-15			GAIN	Loss
	Men	Women	Total	Men	Women	Total		
SCIENCE, LITERATURE, AND THE ARTS:								
Seniors	65	189	254	73	174	247		
Juniors	111	189	300	123	182	305		
Sophomores	225	208	433	234	208	442		
Freshmen	254	251	505	398	304	702		
Unclassed	28	72	100	36	86	122		
Total	683	909	1,592	864	954	1,818	226	.....

TABLE I—Continued

COLLEGE OR SCHOOL	1913-14			1914-15			GAIN	Loss
	Men	Women	Total	Men	Women	Total		
ENGINEERING AND THE MECHANIC ARTS:								
Post-seniors	26		26	35		35		
Seniors	60		60	58		58		
Juniors	66		66	72		72		
Sophomores	114		114	98		98		
Freshmen	156		156	193	1	194		
Irregular	16		16	16	2	18		
Total	438		438	472	3	475	37	
AGRICULTURE:								
Graduates	29	1	30					
Seniors	49	27	76	55	42	97		
Juniors	51	42	93	67	50	117		
Sophomores	80	62	142	109	69	178		
Freshmen	121	68	189	160	89	249		
Special students	16	10	26	12	23	35		
Total	346	210	556	403	273	676	120	
LAW:								
Third-year day	26	1	27	52		52		
Second-year day	49		49	44		44		
First-year day	36		36	74		74		
First-year day (Academic seniors)	8		8	7		7		
Fourth-year night	11	1	12					
Special students	43		43					
Post-graduates	1		1					
Total	174	2	176	177		177	1	
MEDICAL:								
Graduate students	6		6					
Sixth-year	28	2	30	35	1	36		
Fifth-year	38	1	39	35	2	36		
Fourth-year	37	1	38	58	1	60		
Third-year	62	3	65	72	3	75		
Unclassed students	4	1	5	14	1	15		
Total	175	8	183	214	8	222	39	
SCHOOL FOR NURSES:								
.....		36	36		53	53	17	
DENTISTRY:								
Graduate students	1	2	3					
Third-year	78	3	81	72		72		
Second-year	80		80	86	1	87		
First-year	97	2	99	98	5	103		
Unclassed	12		12	3	1	4		
Total	268	7	275	259	7	266		9
PHARMACY:								
Graduates	2		2	1		1		
Seniors	30	2	32	27	6	33		
Juniors	56	8	64	60	7	67		
Total	88	10	98	88	13	101	3	
MINES:								
Seniors	9		9	16		16		
Juniors	19		19	13		13		
Sophomores	13		13	20		20		
Freshmen	27		27	31		31		
First-year	62		62	9		9		
Special students				1		1		
Total	130		130	90		90		40

TABLE I—Continued

COLLEGE OR SCHOOL	1913-14			1914-15			GAIN	Loss
	Men	Women	Total	Men	Women	Total		
ANALYTICAL AND APPLIED CHEMISTRY:								
Post-seniors	5	.....	5	3	.....	3	.....	.....
Seniors	8	1	9	5	.....	5	.....	.....
Juniors	5	.....	5	6	.....	6	.....	.....
Sophomores	20	3	23	20	.....	20	.....	.....
Freshmen	35	.....	35	12	.....	12	.....	.....
Irregular students	5	.....	5	6	.....	6	.....	.....
Total	78	4	82	52	.....	52	.....	30
EDUCATION:								
Seniors	20	33	53	16	27	43	.....	.....
Juniors	13	19	32	18	15	33	.....	.....
Unclassed	4	23	27	3	30	33	.....	.....
Total	37	75	112	37	72	109	.....	3
GRADUATE	117	49	166	147	75	222	56	.....
SUMMER SESSION								
College sections	260	278	538	372	340	712	.....	.....
Agricultural	82	51	133	113	41	154	.....	.....
Total	342	329	671	485	381	866	195	.....
General totals	2876	1639	4515	3288	1839	5127	612	.....
Less duplicates	247	113	360	266	109	375	.....	15
Grand Total, Net.....	2629	1526	4155	3022	1730	4752	597	.....

Table II shows the comparative registration of sub-collegiate students for the year 1913-14 and 1914-15. The astounding gain of 2,397 is explained by the fact that those in attendance at the Farmers' Convention at Crookston were registered in the three day short course. Omitting this figure (1,818) entirely, the net gain for the group is 579, which in itself is a substantial increase. No count of Farmers' Week at Morris was made. Omitting this item for both schools the net registration for Crookston is 370 and for Morris 297.

TABLE II. SUB-COLLEGIATE STUDENTS, 1913-1915

SCHOOL	1913-14			1914-15			GAIN	Loss
	Men	Women	Total	Men	Women	Total		
CENTRAL SCHOOL OF AGRICULTURE:								
Intermediate	14	8	22	14	13	27	.....	.....
Seniors	105	58	163	102	65	167	.....	.....
Juniors	178	100	278	191	87	278	.....	.....
Freshmen	303	123	426	284	109	393	.....	.....
Special students	2	3	5	6	4	10	.....	.....
Total	602	292	894	597	278	875	.....	19

TABLE II—Continued

SCHOOL	1913-14			1914-15			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
NORTHWEST SCHOOL OF AGRICULTURE	215	222	437	1565	623	2188	1751	.....
WEST CENTRAL SCHOOL OF AGRICULTURE	115	162	278	85	212	297	19	.....
Total	331	384	715	1650	835	2485	1770	.....
Total Schools	933	676	1609	2247	1113	3360	1751	.....
SHORT COURSES:								
Traction engineering ...	37	.....	37	20	.....	20	.....	.....
Teachers' Training School	64	795	859	89	941	1030	.....	.....
Dairy School	117	.....	117	113	1	114	.....	.....
Farmers' Short Course..	167	27	194	540	87	627	.....	.....
Junior Short Course....	282	76	358	279	124	403	.....	.....
Total	667	898	1565	1041	1153	2194	629	.....
SHORT COURSE FOR								
EMBALMERS	35	.....	35	50	4	54	19	.....
General totals	1635	1574	3209	3338	2270	5608	2399	.....
Less duplicates .....	.....	.....	.....	2	.....	2	.....	2
Net, sub-collegiate ...	1635	1574	3209	3336	2270	5606	2397	.....

Table III shows three groups of Extension Division students: (1) General, those taking evening class instruction, either at the University or elsewhere. (2) Correspondence Study students. (3) Merchants' one-week Short Course. The large gain in group I is explained by the decided registration increase in Minneapolis academic, business, and engineering courses and by the response given to the organization of store classes in retail selling in St. Paul, Minneapolis, Duluth, and Albert Lea.

TABLE III. EXTENSION STUDENTS, 1913-1915

COURSES	1913-14			1914-15			GAIN	LOSS
	Men	Women	Total	Men	Women	Total		
General	1158	394	1552	1537	1002	2539	.....	.....
Correspondence	37	39	76	50	67	117	.....	.....
Merchants' Short Course..	.....	.....	.....	231	7	238	.....	.....
Total	1195	433	1628	1818	1076	2894	1266	.....

Table IV gives a brief registration summary for the entire institution. In giving the total enrollment for the University, care should be taken to differentiate these three groups. In comparing Minnesota with other universities and colleges the first group (collegiate students) should be used.

TABLE IV. SUMMARY, 1913-1915

DIVISION	1913-14			1914-15			GAIN	Loss
	Men	Women	Total	Men	Women	Total		
Collegiate students	2629	1526	4155	3022	1730	4752		
Sub-collegiate students ..	1635	1574	3209	3336	2270	5606		
Extension students	1195	433	1628	1818	1076	2894		
Total	5459	3533	8992	8176	5076	13252	4260	.....

Table V is a recapitulation of tables I, II, III, and IV.

TABLE V. COMPARATIVE REGISTRATION FIGURES, 1913-1915

COLLEGE	1913-14			1914-15			GAIN		Loss	
	Men	Women	Total	Men	Women	Total	Men	Women	Men	Women
Science, Literature, and the Arts...	683	909	1592	864	954	1818	181	45		
Engineering and Architecture ...	438	.....	438	472	3	475	34	3		
Agriculture	2011	1826	3837	3776	2577	6353	1765	751		
Law	174	2	176	177	.....	177	3			2
Medical (including nurses and embalmers)	210	44	254	296	67	363	86	23		
Dentistry	268	7	275	265	9	274		2	3	
Pharmacy	88	10	98	88	13	101		3		
Mines	130	.....	130	90	.....	90			40	
Chemistry	78	4	82	52	.....	52			26	4
Education	37	75	112	37	72	109				3
Graduate	117	49	166	147	75	222	30	26		
Summer Session (net)	141	190	331	135	240	375		50	6	
Total	4375	3116	7491	6399	4010	10409	2024	894		
Less duplicates ..	111	16	127	41	10	51	70	6		
Net Total ...	4264	3100	7364	6358	4000	10358	2094	900		
EXTENSION:										
General	1158	394	1552	1440	745	2185	282	351		
Correspondence ..	37	39	76	50	67	117	13	28		
Merchants' Short Course .....	.....	.....	.....	328	264	592	328	264		
Total	1195	433	1628	1818	1076	2894	623	643		
SUMMARY:										
Total, resident students	4264	3100	7364	6358	4000	10358	2094	900		
Total, extension students	1195	433	1628	1818	1076	2894	623	643		
GRAND TOTALS	5459	3533	8992	8176	5076	13252	2717	1543		

Table VI shows the preparatory schools from which students entering the freshman classes of the respective colleges were received during the year 1914-15, also for the Minnesota group those schools from which no students were received. Of the 242 approved high schools of this state 189 sent students. Fifty-three schools were not represented. The largest number from any school outside the Twin Cities and Duluth is 11, two sent

STATISTICS OF REGISTRATION

TABLE VI—Continued

	1914-15									
	Science, Literature, and the Arts	Engineering	Chemistry	Mines	Dentistry	Pharmacy	Nurses	Special Law	Agriculture	Total
Chaska										2
Chatfield	1				1					2
Chisholm										2
Clarkfield										1
Cloquet	2									2
Cokato	1									1
Coleraine										1
Cottonwood										2
Crookston	2									2
Crosby		1								1
Dassel			1		1				2	4
Dawson	1									1
Deer River		1				2				3
Delano									1	1
Detroit	3	2							1	6
Dodge Center	1									1
Duluth										
Cathedral	2	2							1	5
Central	11	6							7	25
Industrial							1		2	2
Eagle Bend										1
East Grand Forks										1
Eden Valley						1				1
Elbow Lake	1								1	2
Elk River	1									1
Elmore										1
Ely	1									1
Eveleth	1									1
Excelsior	3	3							1	7
Fairfax	1									1
Fairmont	1					1				2
Faribault	4				3	1			2	10
Farmington	2								1	3
Fergus Falls	1			1					1	3
Fertile							1			1
Fosston										1
Franklin	1	1								2
Frazee										1
Fulda	1									1
Gaylord										1
Gibbon	1									1
Gilbert						1				1
Glencoe	1									1
Glenwood		1								1
Graceville										1
Grand Rapids	2								2	4
Granite Falls									2	2
Hallock	2								1	3
Halstad									1	1
Harmony	1	1								2
Hastings	1									1
Hawley									4	5
Hector					2					2
Henderson									1	1
Hendricks						1				1
Herman										1
Heron Lake	1									1
Hibbing	2	3								6
Hinckley										1
Hopkins	2								1	3
Houston	1	1								2
Howard Lake									1	1
Hutchinson	2						1		1	4

TABLE VI—Continued

	1914-15									
	Science, Literature, and the Arts	Engineering	Chemistry	Mines	Dentistry	Pharmacy	Nurses	Special Law	Agriculture	Total
Mauston									1	1
Menomonie	1					1				2
Merrill						1				1
Milwaukee										
Downer Seminary	2									2
St. John's Cathedral	1									1
Mineral Point									1	1
Racine	2									2
Randolph									2	2
River Falls	1									1
Saint Croix Falls	4				1					5
Sheboygan	1									1
Shell Lake		1								1
Sparta									1	1
Superior		1								1
State Normal	2									2

SUMMARY

Wisconsin	49	Michigan	3	New York	1
Iowa	25	California	2	Oklahoma	1
North Dakota	19	Maryland	2	Pennsylvania	1
South Dakota	17	Nebraska	2	Tennessee	1
Illinois	13	Connecticut	1	Texas	1
Montana	8	Indiana	1	Virginia	1
Kansas	5	Missouri	1	Washington D. C.	1
Washington	5	New Hampshire	1	West Virginia	1
Massachusetts	4	New Jersey	1		
Ohio	4	New Mexico	1		
Total number of entrants for Minnesota	1039				
Total number for United States, outside of Minnesota	172				
Total for foreign countries	9				
Grand Total	1220				

Table VII shows the number and kinds of degrees conferred by the University for the past seventeen years. (See insert, opposite page.)

Table VIII shows the geographical distribution of students of collegiate grade for the year 1914-15 exclusive of the summer session.

TABLE VIII. GEOGRAPHICAL DISTRIBUTION OF COLLEGIATE STUDENTS, 1914-1915

STATE	Science, Literature, and the Arts	Engineering	Chemistry	Mines	Law	Pharmacy	Medical	Nurses	Dentistry	Agricultural	Forestry	Education	Graduates	Total
Arizona				1										1
California	1						1	1		1			1	5
Colorado													3	3
Dist. Columbia		1												1
Idaho	1	1					2		1					5
Illinois	6	3			2		2			3	1		3	20
Indiana							1				1			3
Iowa	41	4	1	1	6	2	8		6	8	4	1	1	83
Kansas										1			4	5
Maryland							1							1
Massachusetts	1													1
Michigan	3	4									1		1	9
Minnesota	1658	419	45	76	149	91	180	47	225	582	26	100	177	3775
Missouri	2	4											1	7
Montana	13	5			1	1	1	1	1	1		1	1	26
Nebraska	2						1			1			2	6
New Jersey				1										1
New York	4				1				1	1			2	9
North Dakota	32	5		1	4	1	4	2	7	5		2	3	66
Ohio		1					1			4	1		1	10
Oklahoma	1		1							1				2
Pennsylvania					1					2				5
South Dakota	23	7	2	2	5	1	4		1	10		2	3	60
Tennessee													2	2
Utah											1		2	3
Vermont	1													1
Virginia	1												1	2
Washington		3		1			8		5				1	18
Wisconsin	21	10		5	8	5	7	1	9	10	6	3	5	90
OTHER COUNTRIES														
Africa										2				2
Argentina		1												1
Austria										1			1	1
Canada	5	3							1	1				10
China		1	1	1										3
Cuba		1												1
Germany									1					1
Greece									1					1
India													2	2
Japan	1							1						1
Norway		1							6				1	8
Peru				1						1				2
Russia		1											1	2
Scotland	1													1
Siberia			2											2
Syria							1							1
Grand total	1818	475	52	90	177	101	222	53	266	635	41	109	222	4261

Table IX shows the geographical distribution, by counties, of Minnesota students of collegiate grade (not counting Summer Session). It is interesting to note that every county in the state is represented.

TABLE IX. GEOGRAPHICAL DISTRIBUTION, BY COUNTIES, OF MINNESOTA STUDENTS OF COLLEGIATE GRADE (OTHER THAN SUMMER SESSION) 1914-1915

COUNTIES	Science, Literature, and the Arts	Engineering	Chemistry	Mines	Law	Pharmacy	Medical	Nurses	Dentistry	Agricultural	Forestry	Education	Graduates	Total
Aitkin	6	..	..	1	..	..	..	..	..	3	..	..	..	10
Anoka	11	2	..	..	..	1	2	..	1	3	..	1	..	21
Becker	7	1	..	..	1	..	..	1	1	7	..	1	..	20
Beltrami	3	2	..	1	2	2	1	..	1	2	..	..	..	14
Benton	1	2	..	..	..	..	..	..	..	..	..	1	..	4
Big Stone	8	..	..	..	1	2	..	..	1	3	..	..	..	15
Blue Earth	8	4	2	..	2	2	1	..	3	9	..	8	..	39
Brown	6	1	1	2	..	..	3	..	1	5	..	4	..	25
Carlton	6	2	2	..	..	1	..	..	1	6	..	..	1	16
Carver	5	..	..	..	..	1	3	..	..	2	..	..	..	15
Cass	3	..	..	..	..	..	..	..	4	1	..	..	..	4
Chippewa	2	3	..	..	..	..	..	..	..	1	..	..	1	7
Chisago	4	2	1	..	..	..	..	..	3	5	..	..	1	16
Clay	4	..	..	..	..	..	..	..	1	..	..	2	..	7
Clearwater	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Cook	1	..	..	..	..	..	..	..	1	..	..	..	..	2
Cottonwood	7	1	..	..	..	1	..	1	..	2	..	2	2	16
Crow Wing	5	4	..	..	..	..	..	..	..	..	..	..	..	9
Dakota	11	1	..	..	..	..	1	..	..	5	..	..	..	18
Dodge	..	2	..	..	..	..	..	..	..	2	..	1	1	6
Douglas	4	..	..	..	1	1	..	..	3	2	..	..	..	11
Faribault	7	1	..	..	1	1	2	..	2	3	..	3	1	21
Fillmore	11	5	1	1	2	..	1	..	10	5	..	1	..	36
Freeborn	6	1	..	..	2	..	..	..	1	2	..	1	..	13
Goodhue	7	5	..	1	..	1	3	3	3	8	1	2	2	36
Grant	5	..	..	..	..	1	..	..	1	1	..	1	1	10
Hennepin	906	197	24	30	74	24	79	14	86	187	14	30	100	1765
Houston	4	1	..	..	..	..	..	1	1	1	..	..	..	8
Hubbard	..	..	..	..	1	..	..	..	1	2	..	..	..	4
Isanti	2	1	..	..	..	..	..	..	1	1	..	..	..	5
Itasca	4	2	1	1	1	2	..	..	4	4	..	..	..	15
Jackson	2	1	..	1	1	..	..	..	1	8	..	1	..	16
Kanabec	4	2	..	..	..	..	..	..	2	2	..	..	..	8
Kandiyohi	4	2	..	..	..	..	..	..	1	2	..	..	..	16
Kandiyohi	3	3	..	1	..	..	1	..	5	3	..	..	..	16
Kittson	2	1	..	..	1	..	..	..	4	4	1	..	..	9
Koochiching	1	3	..	..	1	..	..	..	..	..	..	..	..	5
Lac qui Parle	5	2	..	..	..	..	2	1	1	4	..	..	1	16
Lake	9	2	..	..	3	..	..	..	2	2	..	..	..	16
Le Sueur	7	2	..	..	..	3	4	1	4	9	..	..	..	30
Lincoln	1	..	..	1	..	7	..	..	1	1	..	..	..	10
Lyon	4	2	..	1	1	..	1	..	3	3	..	..	..	15
McLeod	16	2	..	..	2	1	1	1	5	6	..	..	..	34
Mahnomen	2	1	..	..	..	2	..	..	..	..	..	..	..	5
Marshall	5	..	..	..	1	..	1	..	..	2	..	1	..	10
Martin	2	..	..	..	..	2	..	..	..	2	..	..	..	7
Meeker	7	1	1	..	1	1	..	2	4	3	1	..	..	21
Mille Lacs	2	..	..	..	..	..	..	..	1	1	..	1	..	5
Morrison	4	..	1	2	..	..	..	1	2	2	1	1	1	15
Mower	8	2	..	..	..	1	..	1	2	8	..	1	1	24
Murray	5	1	..	..	..	1	1	..	..	5	1	..	..	14
Nicollet	3	..	..	..	..	..	..	..	..	4	..	1	..	8
Nobles	4	..	1	..	..	..	1	..	2	3	..	2	..	13
Norman	3	2	..	..	1	2	..	..	1	3	..	..	..	12

	Science, Literature, and the Arts	Engineering	Chemistry	Mines	Law	Pharmacy	Medical	Nurses	Dentistry	Agricultural	Forestry	Education	Graduates	Total
Olmsted	6	2			1	1	1	2		6		1	2	22
Otter Tail	10	1		2	4		2		4	4			2	20
Pennington	3				1								1	6
Pine	4	1	1		2					2				9
Pipestone	4	1							1				1	9
Polk	6	3			1		4	2	3	5		1		25
Pope	3	1			1		1	1	2	1				10
Ramsey	305	71	8	19	14	9	33	6	20	104	4	17	48	658
Red Lake												1		1
Redwood	6	1			1	2			1	4		2		17
Renville	10	3			1	1	1		3	9				28
Rice	14	5		1	2	2	4	1	4	5			1	39
Rock	3	1				1	1		1	2				9
Roscau							1	1						1
St. Louis	41	24	1	5	8	5	3	2	4	23	1	2	1	120
Scott	5		1		1		2		1	4			2	16
Sherburne		2							1	4				7
Sibley	3	3			2	1			2	4				15
Stearns	9	3		3	1		1		3	9		3	1	33
Steele	3	3			1	1	1		3	7				15
Stevens		1							2	1				4
Swift	4	2			1				1	1				9
Todd	5	3			1	1	1		3	7		1		22
Traverse	2				1		1							4
Wabasha	6	3			1	4	3			3			1	21
Wadena	2	1		1			1		2					7
Waseca	5	4	1			1	4	2		4	1		1	23
Washington	19	1	1	2		1		1	1	8		1	2	37
Watowan	1	2								3		1		7
Wilkin	4	1								1			1	7
Winona	7	4				1	2	1	4	5		2		26
Wright	11	3			3	1	1	1	3	4		2		29
Yellow Medicine	3	3			1	1			1	4	1			14
Total, 86	1658	419	45	76	149	91	180	47	225	582	26	100	177	3775

Table X shows the qualitative status of freshman credentials with the number of students dropped for low scholarship.

TABLE X. CREDENTIAL STATUS OF FRESHMEN WHO REGISTERED

	S.L.A.	E.M.A.	Chem.	Mines	Sp. Law	Dent.	Nurses	Agri.	Total
Low scholarship.	262	38	1	2	1	16	1	62	384
Dropped for poor work	(75)	(5)						(3)	
Credentials O.K.	406	81	7	16	5	52	13	156	736
Dropped for poor work	(31)	(22)	(1)					(5)	
O.K. with condition		38							38
Total	668	157	8	18	6	68	14	219	1158

Table XI gives information similar to X for those who applied for entrance but failed to matriculate.

TABLE XI. CREDENTIAL STATUS OF FRESHMEN WHO APPLIED BUT DID NOT REGISTER

	S.L.A.	E.M.A.	Chem.	Mines	Sp. Law	Dent.	Nurses	Agri.	Total
Low scholarship.	48	11	.....	.....	.....	10	.....	32	101
Credentials O.K.	108	5	1	2	2	14	7	30	169
Lacking credit..	27	9	.....	2	.....	22	1	.....	61
With condition..	.....	21	.....	.....	.....	.....	.....	.....	21
Non-accredited school	3	.....	.....	.....	.....	2	.....	.....	5
Total	186	46	1	4	2	48	8	62	357

A SURVEY OF THE COLLEGES, ETC.

College of Science, Literature, and the Arts.—(1) Increase in enrollment, women 4.95 per cent, men 26.5 per cent; increase in total attendance for the College, 14.2 per cent; (2) increase in number of faculty, 5.5 per cent; (3) new rank of "Teaching Fellows" established; (4) entrance requirements revised, system of honor points substituted for rule requiring average grade of "Good" in certain amount of work, course leading to degree "B.A. with Honors" established, provision made for course in business education and for study of vocational guidance for women; (5) honor system in all classes but freshman inaugurated.

College of Engineering and the Mechanic Arts.—(1) Work completed in Electrical Laboratory to make it serve temporarily; (2) entrance requirements simplified; (3) changes made in curriculum to bring freshmen into immediate contact with engineering things and to postpone essentially cultural subjects to senior and post-senior years; (4) new four-year course in "General Engineering" added; (5) research on strength of materials conducted in the Experimental Laboratory and results published; (6) night classes in Engineering and Architecture carried on; (7) over twenty per cent increase in registration; (8) new electrical Engineering Building and course in Military Engineering recommended.

The Department of Agriculture.—(1) Beginning students admitted in both first and second semesters; (2) adoption of new course for specialists in Agricultural Economics for 1915-16; (3) Home Economics work amplified and improved, courses in Physiology and Bacteriology being added, and opportunity pro-

vided to acquire thirty-six hours of directed teaching experience; (4) electives in Forestry provided, making it possible for students to specialize in lumber, wood pulp and paper, distillates, etc., (5) more advanced work in Agricultural Technology, including normal training course, offered at Schools of Agriculture; (6) policy of utilizing well-trained graduate students as research assistants in station laboratories and field produces valuable results; (7) eighty projects covering every important phase of agriculture, rural organization, and marketing were under investigation; (8) eight experiment station bulletins (54,500 copies) and three press bulletins issued during the year; (9) special conferences to secure closer coördination in Station and Substation work begun; (10) ten acres of land purchased adjoining University Farm for variety testing work; (11) Home Economics Building, Gymnasium, and other buildings completed; plans made for other buildings, additions, and improvements in physical equipment.

The Law School.—(1) Attendance increase of 9.3 per cent; (2) courses of lectures by Hon. Frank B. Kellogg and Judge Homer B. Dibell; (3) extension of practice work and remarkable development of Legal Aid Bureau; (4) 2,702 volumes added to Law Library, 575 volumes of which, valued at \$1,500, were obtained by exchange; (5) scholarship statistics afford evidence of general improvement in scholarship and growing stability of student body, and justify the requirement of more thorough training beyond the high school now imposed for admission to the Law School.

The Medical School.—(1) Summer Session program considerably extended and increased registration reported; (2) contract entered into with the Mayo Foundation, Rochester, whereby the facilities of the Foundation will be used for graduate medical teaching and research (for details see report of the President); (3) teaching fellowship system for the clinical branches put into operation; (4) clinical facilities increased by addition of about sixty beds in Elliott Hospital and moving of dispensary from Seven Corners to basement of Millard Hall; (5) rule limiting entering classes to eighty adopted, effective 1916; (6) provision made for Social Service Department in connection with the Hospital.

The College of Dentistry.—(1) Four-year course, optional in September, 1915, compulsory 1916, adopted; (2) forty per cent

of matriculants in 1914-15 have had one or more years of academic work; (3) five weeks extension course in oral surgery offered; (4) members of staff fill lecture and clinic engagements in this country and in Europe; three instructors gave graduate courses in Kristiania and in Copenhagen; (5) Summer School attendance increased twenty per cent; (6) American Institute of Dental Teachers has accepted invitation to hold next meeting in Minneapolis.

The College of Pharmacy.—(1) New dispensing laboratory put in operation; (2) first-year pharmaceutical work increased and strengthened; 19,907 prescriptions dispensed by Free Dispensary Drug Room; (3) length of course increased to three years.

The School of Mines.—(1) Special magnetic log washer evolved by Experiment Station Staff for examination of Eastern Mesabi magnetic ore; (2) study made of possibility of concentrating low grade ores of the Cuyuna Range and results published; (3) series of economic bulletins covering all phases of the iron mining industry in Minnesota planned; (4) Experiment Station Board to secure coördination of the several activities of the station appointed; (5) ore estimates and special technical information furnished to the Tax Commission; (6) new School of Mines building practically completed during year.

The School of Chemistry.—(1) Material increase in students; (2) twenty-eight problems have been under investigation, and a number of papers have been published.

The College of Education.—(1) Short course for Superintendents and Principals given with registration of 427; (2) Executive Faculty, High School Council, teachers' training conference, and a sub-committee on teachers' courses organized; (3) Appointments Bureau reorganized; (4) prescribed course of study adopted; (5) fifth year of professional study combined with teaching in Minneapolis schools provided for next year; (6) new courses covering entirely new phases of work in school administration, educational psychology, statistical methods, and educational diagnosis provided; new course for teachers in service added; (7) important additions to staff, including the appointment of Dean Lotus D. Coffman and a Professor of Educational Psychology; (8) bulletin on *Rural Teachers' Training Departments in Minnesota High Schools* published and series of bulle-

tins dealing with methods of teaching high-school subjects begun; (9) University High School takes up quarters in the Education Building.

The Graduate School.—(1) 35.4 per cent increase in registration; (2) 56 Master of Arts and 5 Doctor of Philosophy degrees conferred; (3) creditable output in scholarly research and publication maintained; (4) special Senate Committee on the Relation of the University to other Educational Institutions in the State appointed; (5) important development of graduate medical work made possible by connection with the Mayo Foundation.

Report of the Dean of Women.—(1) Work of student self-government associations growing steadily more effective; (2) Pan-Hellenic Association adopted rule that "there shall be no initiation of freshmen students until the second semester, and then only if they have passed in all hours of their previous semester's work"; (3) Charlotte Winchell Cottage, a second coöperative house for girls, established; (4) coöperation with Department of Physical Education for Women in looking after the health of women students; (5) First Vocational Conference for the women of the University; (6) administrative duties increasing and assistance is needed.

Agricultural Extension.—(1) 274 regular Farmers' Institutes with total attendance of 48,710, 512 Farmers' Club, school officers', coöperative organization meetings, etc., with attendance of 48,630 held; (2) 50,000 copies of *Farmers' Institute Annual* No. 27 devoted largely to the farm home distributed; (3) 200 new Farmers' Clubs organized; (4) Acre-Yield Corn Contests for boys and Bread-making Contest for girls conducted; (5) 43 five-day Agricultural Extension Short Courses offered with attendance of 5,235 men and 3,865 women; (6) County Agents have encouraged increased raising of alfalfa and clover; (7) farm management demonstrations in coöperation with the United States Department of Agriculture inaugurated in ten counties employing county agents; (8) demonstration farms continued with increasingly satisfactory results; (9) assistance given to special rural community meetings of various kinds, such as farmers' clubs, picnics, rural school meetings, coöperative organizations; (10) judges furnished for over one hundred county and street fairs; (11) plans completed for employing a man coöpera-

tively with the United States Department of Agriculture to devote most of his time to cow testing and breeders' association work; (12) livestock shipping associations encouraged; (13) a number of important bulletins published and widely distributed.

General Extension Division.—(1) Evening classes in business, engineering, and academic subjects conducted in Minneapolis, St. Paul, Duluth, St. Cloud, Winona, Albert Lea, Austin, and Northfield; (2) Merchants' Short Course in methods of merchandising with 231 registrations; (3) "University Weeks" held in 24 towns throughout the State; (4) new correspondence courses added; (5) Lecture and Lyceum Department furnished lectures and entertainments to many communities; (6) 102 sets of instructive lantern slides furnished to 52 towns; (7) debates furnished in eleven towns besides those included in the University Weeks circuit; (8) eighty villages and cities took advantage of the services of the Municipal Reference Bureau.

Physical Education for Men.—(1) Physical examination of all new matriculants and of all those using the privileges of the department, and medical inspection of the same; (2) administration of a special lecture on sex hygiene; (3) disease census of all new matriculants; (4) conducted organized classes in gymnastics for all students in the College of Science, Literature, and the Arts; (5) conducted special classes for defectives in all classes of the University; (6) promotion of miscellaneous sports and physical activities and minor intercollegiate athletics; (7) conducted in coöperation with the Department of Physical Education for Women a short course in Playground Training.

Physical Education for Women.—(1) Physical examinations made and recorded of 520 women in all colleges, 105 in the School of Agriculture, all newly entering students in the Northwest School of Agriculture, Crookston, and of all candidates for teachers' certificates; (2) health consultations held throughout the year; (3) hygiene and gymnasium classes conducted; (4) contests in several sports organized.

Committee on Physical Education and Intramural Sports.—(1) Interclass, intercollege, interfraternity, and all-University contests held in basketball, football, baseball, swimming, handball, hockey, tennis, etc.; (2) under the management of the Women's Athletic Association and with the coöperation of the Department of Physical Education for Women contests for

women were held in tennis, skating, swimming, gymnastics, cricket, indoor baseball, etc.

Military Department.—(1) 1,304 cadets under instruction during the year; (2) annual encampments held with attendance of 239 University, 154 School of Agriculture; (3) annual inspection again won place for cadet corps in the distinguished class of ten University battalions.

The Geological Survey.—(1) Arrangement for coöperation with the United States Geological Survey renewed; (2) coöperated with Bureau of Mines, Washington, D. C., in the investigation of peats in Minnesota, with the School of Mines Experiment Station, with the School of Chemistry, and with the Department of Agriculture; (3) field work in connection with an investigation of the surface formations of Minnesota with special reference to soils, with the geology and ore deposits of the Cuyuna Range, with the geology of areas in the vicinity of Duluth, with the peat resources of Minnesota, and a relief model of an area including the Twin Cities; (4) answered inquiries received concerning geological structure from persons who contemplated drilling for water or ore, and examined materials sent in to determine their economic value; (5) work done on a number of important bulletins, some of which were published during the year.

The Botanical Survey.—(1) Field season spent in the study of the origin and formation of the swamps and bogs of the State; (2) Part 3 of Volume IV of *Minnesota Botanical Studies* published.

The Library.—(1) Library greatly strengthened by the establishment of a "sets fund"; 22,406 volumes added during the year; (2) arrangements made for the purchase of the library of Gabriel Monod (2,259 volumes), which covers the whole field of French history and contains many books on literature, art, archeology, and the political and social sciences; (3) collection of significant material relating to the war begun; (4) catalog of serials as basis for a union list of serials of all libraries of Minneapolis and St. Paul prepared; 5,812 volumes rebound; (5) desirable increase in number of books loaned for home use noted; (6) 167,213 volumes cataloged during the year; (7) value of the library has been greatly increased through inter-library loans; (8) library school is recommended.

The Academic Fraternities.—(1) Rule requiring the successful completion of 75 per cent or more of the work carried by a student during the first semester before he may be initiated by a fraternity, put into successful operation; (2) fraternity scholarship seems to be higher; (3) new system for tabulating records of individual students worked out.

General Alumni Association.—(1) Special football number of the Weekly published in addition to regular issues; (2) successful campaign for endowment fund and thousand additional members completed; (3) two special issues in connection with the session of the legislature sent to all alumni in the state; (4) work begun on collection of material for new alumni directory.

PHYSICAL PLANT AND EQUIPMENT

Progress of buildings.—The gymnasium for women on the Main Campus was practically completed in the summer of 1915 and ready for use for the next academic year. This building, carefully planned under the supervision of Dr. Anna Norris, Director of Physical Education for Women, is probably the most complete and modernly equipped of American gymnasia. Connected by a subway with Shevlin Hall this addition completes a club house for women which has cost more than \$200,000. The Mines Building was occupied during the summer of 1915. This is an unusually well-planned laboratory and class-room building which will afford the best opportunity for educational and administrative work. When a new experiment station has been added, the Minnesota School of Mines will have one of the most complete plants in the country. The new Biological Laboratory is well under way and will be ready for occupancy in the autumn of 1916. Its location on Washington Avenue, next to the Institute of Anatomy, will make possible the common use of biological library facilities and the exchange of class rooms, laboratories, etc. Many minor repairs and remodeling projects have been successfully completed during the year.

Coöperation of the State Insurance Department.—Thanks to the increased number of fire-proof buildings, the installation of sprinkler systems and the rewiring of old buildings and an increased watchman service, the fire risks have been minimized. The University desires to acknowledge an obligation to the vigi-

lant inspections and wise suggestions of the State Insurance Department. The Board of Regents has promptly carried out the recommendations of the Fire Marshal with respect to precautions against fire, the provision of additional exits, fire escapes, etc. The value of state supervision has been demonstrated and the University has heartily welcomed the coöperation of the Department.

FINANCES

Legislative appropriations in 1915.—Misleading impressions have been circulated concerning the attitude of the last Legislature toward the University. Many persons have supposed that maintenance appropriations were actually reduced from the level of the previous biennium. The fact that attacks were made upon certain policies of the University and that a standing committee was instructed to make an inquiry into University affairs, was interpreted as general hostility to the institution. As a matter of fact, the Committees of the Legislature treated the University representatives considerately, gave careful attention to the needs which were presented, and finally recommended an increase of \$77,400 in the annual maintenance funds. Unfortunately, this increase was wholly inadequate to meet the needs created by a rapid increase in numbers of students and other demands upon the University. The Regents had asked for approximately \$750,000 more than was finally granted for the biennium. If the University continues to grow, the Board will be compelled to request a very large increase in maintenance from the Legislature of 1917.

Progress in business organization.—The present Comptroller of the University assumed responsibility for its business management August 1, 1911. A modern budget system was at once installed (See *Seventeenth Biennial Report*, 103-108). The Comptroller in his first annual report (1912) recommended changes in legislation: (1) to dispense with the obsolete custom of compelling persons paid by check to sign a payroll, and (2) to facilitate the payment of bills in order to take advantage of cash discounts. Altho these changes were not authorized, the coöperation of the State Auditor's office afforded some relief in the more prompt settlement of accounts payable. In his report for 1914

the Comptroller renewed his recommendations which had the hearty support of the Board of Regents, but again they failed to pass. While the law in its present form prevents the installation of thoroly efficient business methods, every effort has been made to improve the purchasing service, to perfect the system of accounting, to establish a well-conducted central storehouse, to centralize and to organize more closely the administrative and clerical force. In this steady progress the University has been aided in important ways by the coöperation of the Public Examiner and the State Auditor. The former official has kept for months together a representative in the offices of the University who has gone painstakingly into the business affairs of the institution. He has made a number of useful suggestions which have been adopted. The Public Examiner has, it is understood, worked out an improved state system for the transaction of public business. The University will welcome the increased efficiency which will follow the introduction of modern procedure in its financial affairs.

Annual advance of mill tax.—Pursuant to paragraph XXI, section 2, chapter 238, General Laws of 1911, an advance of \$100,000 was made to the University from the General Support Fund, and used in defraying the expenses of the Institution for the fiscal year ending July 31, 1911. This had the effect of making available for the University, in the fiscal year for which taxes were levied, the total amount collected plus \$100,000 from taxes levied but not yet paid. The \$100,000 advanced in 1911 was not charged back until the following year. The State Auditor, the Attorney General, and the Chairman of the Senate Appropriations Committee were consulted, and all agreed that the University was justified in making up its budget on the assumption that a similar annual advance might be counted upon. Each year since that time an advance of \$100,000 has been made, but it has been charged back before the end of the year. The effect of this is to reduce by \$100,000 the amount necessary to balance the budget of the University. It is important that this situation should be clearly understood. If this procedure is not approved by the Legislature, steps should be taken either to recognize this advance as a part of the University's annual income, or special provision should be made. The University, as was arranged in 1911, in making up its own budget for a given year always enters

as income this \$100,000 of the mill-tax levied for that year but not paid until after July 31.

GENERAL POLICY

The problem of numbers.—The rapid growth in the numbers of collegiate students and the failure to secure funds for anything like a corresponding increase in the size of the teaching staff constitute a menace to educational integrity and to the prestige of the University. In Medicine and Dentistry the numbers have been limited in order to preserve standards of professional education. In the case of the Arts College, where the congestion is most acute, it seems impossible to adopt a policy of limitation. For this college is at once a part of the general state educational system, and a preparatory institution for certain professional curricula, for example those of Law and Medicine.

Entrance examinations.—It has been suggested that a limit might be placed upon the Arts College numbers, and that candidates might be selected by competitive examinations. Unless an elaborate and fairly efficient system for conducting examinations were worked out, this policy would involve serious embarrassment and grave injustice. It could be successful only if supported by a vigorous public opinion which was convinced that quality is more important than quantity, and public interest paramount to individual privilege. A society which is permeated with the idea of personal opportunity would come slowly to this conception of an educational West Point. This idea, nevertheless, should be forced steadily upon public attention.

Increase of tuition fees.—Temporary relief might be afforded by a slight increase in fees in the Colleges of Arts, Agriculture, Education, and Engineering. With the fund thus created, additions to the teaching staff might be made. This plan could do little more than alleviate the situation; a limit would quickly be reached. Then, too, unless some provision were made for free scholarships for self-supporting students, the increase of fees might result in an economic selection which would be rightly resented as a perpetuation of privilege, and as repugnant to sound social policy.

The sifting process in college.—Another theory regards the first semester of the freshman year as a continuous examination

period during which students incapable of profiting by a college course are to be discovered and eliminated. Up to a certain point the utility of this idea is obvious enough. But in order to make this process of selection an efficient and just procedure, the conditions of wise discrimination must be realized: individual attention, which involves an adequate staff; stimulating teaching which in the long run means a well paid corps; careful supervision, a well organized curriculum. Even a satisfactory "sifting" system demands adequate expenditures.

Transfer of two years to high schools.—There is some likelihood that the plan of adding to the four high school years two years of college work will spread from the few schools where it is being tried until it becomes a part of the educational system. There are dangers as well as advantages in this idea. State supervision, districting, maintenance of standards in teaching and equipment, are essential safeguards. So far as the University of Minnesota is concerned, no relief from the present overcrowded condition could be counted upon unless the cities of Minneapolis, St. Paul, and Duluth were to adopt the new plan. As these cities are put to it to care for their present problems, the probability of their assuming new burdens seems remote.

Adequate appropriations the only solution.—It is clear that the only way in which the situation can be properly cared for is through an adequate teaching staff working under the conditions that experience shows to be compatible with mental alertness and steady growth. A proposal to meet the problem by requiring instructors to spend more hours in the classroom and laboratory would result in driving the best men and women teachers into other institutions, and in making Minnesota the last resort of unimaginative and mechanical, academic drudges. There is no royal road to learning, no cheap substitute for personal leadership and inspiration.

Respectfully submitted,

GEORGE E. VINCENT, *President.*

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

To the President of the University:

SIR: I submit herewith the report of the College of Science, Literature, and the Arts for the year ending July 31, 1915.

Enrollment.—The following table gives the attendance of students during the last two years:

	1913-14			1914-15		
	MEN	WOMEN	TOTAL	MEN	WOMEN	TOTAL
Seniors.....	64	190	254	73	174	247
Juniors.....	111	189	300	123	182	305
Sophomores.....	222	213	435	234	208	442
Freshmen.....	259	255	514	398	304	702
Unclassed.....	27	62	89	36	86	122
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	683	909	1,592	864	954	1,818
	43%	57%		47%	53%	

This table shows that there has been a large increase in total attendance (14.2 per cent) and that there has been a still more marked increase in the number of men relative to the number of women. The number of women increased less than five per cent, while the number of men increased 26.5 per cent.

Faculty.—The number of members of the faculty in the various ranks for the last two years was as follows:

	1913-14	1914-15
Professors.....	38	38
Associate Professors.....	4	7
Assistant Professors.....	22	26
Instructors.....	45	47
	<hr/>	<hr/>
Absent on leave.....	109	118
	<hr/>	<hr/>
In residence.....	5	8
	<hr/>	<hr/>
	104	110

The increase in the number of faculty in residence was 5.5 per cent. The number for 1914-15 includes two instructors appointed early in the year to provide for unexpected increase in students. The number of assistants and scholars was increased from 38 to 60.

There should have been a very much larger increase in the faculty to provide satisfactory instruction for the increased number of students.

Death.—Professor Samuel G. Smith, Head of the Department of Sociology and Anthropology, died during the year.

Leaves of Absence.—Five professors, one assistant professor, and one instructor were absent for the year, and one professor and one instructor were absent for the first semester.

Resignations.—The faculty lost twenty-one of its members at the close of this year. Of this number, two professors, one assistant professor, six instructors, and one lecturer resigned to accept better positions elsewhere, and three instructors to continue their graduate studies.

Professor John Zeleny, Head of the Department of Physics, resigned to accept a similar position at Yale University, and Professor E. V. Robinson, of the Department of Economics, resigned to go to the corresponding department in Columbia University. In both cases the deciding considerations were, not salary alone, but opportunities for the development of their work which we could not provide without larger funds than we have available. These resignations and others have resulted in a very severe loss to the college, a loss which is traceable chiefly to financial limitations, and one which is likely to be followed by others for the same reason.

Appointments.—To fill vacancies and make additions to the staff for the year 1915-16, two professors, two assistant professors, eighteen instructors, and five lecturers were appointed. These appointments provided an increase of three per cent in the responsible staff of instruction for the year 1915-16.

Teaching Fellows.—This is a new rank established with the year 1915-16. Persons appointed to this rank must have completed one year of graduate work and are expected to become candidates for the doctor's degree. They carry less than half-time teaching and are paid a stipend of \$600 to \$750. Seven teaching fellows were appointed in five departments.

Curriculum changes.—The entrance requirements were slightly changed and the statement carefully revised in the interest of clearness. The requirements for graduation were revised in a number of particulars, in order to bring about greater simplicity of statement and to remove certain difficulties in the election of studies. The rule requiring the student to secure an average grade of "good" in a certain amount of his work was replaced by a system of honor points, as a means of defining the quality or grade of work required for graduation.

Steps were taken toward the differentiation of several courses of study designed with reference to the individual capabilities and the future plans of the students. These special courses of study, while serving to a greater or lesser extent as a preparation for certain vocations or fields of activity, will not omit or sacrifice the essentials of well-balanced education. The faculty established first a course leading to the degree "B.A. with honors," which is intended to give recognition to work of high merit and to prepare the student for productive scholarship in the graduate school or elsewhere. The requirements for graduation include high standing in class work, specialization in one subject, and the presentation of a thesis. To make a higher performance possible the number of routine credit hours is somewhat less than in the regular course.

Provision was also made for a course in business education and for the study of the subject of vocational guidance for women with a view to improving the conditions of study for young women in the college.

Student self-government.—Upon the request of the Student Council of this college and of the All-University Student Council, based upon favorable vote by the student body, the faculty decided to introduce the honor system to govern students in all class work. The system was inaugurated

THE PRESIDENT'S REPORT

in all classes except the freshman and has been administered by the Student Council faithfully and with excellent judgment.

Respectfully submitted,

J. B. JOHNSTON, *Dean*

THE COLLEGE OF ENGINEERING AND THE MECHANIC ARTS

To the President of the University:

STR: I have the honor to submit a report for the college year 1914-15. My report of last year discussed in some detail the organization of the College, its various functions, its buildings and equipment, its growth in student numbers, and the increasing adequacy of the instructional staff. In pursuance of your request for a brief report in this interim year, but few matters will be touched upon now.

Building and equipment.—Work in the Electrical Laboratory to make it serve temporarily, was completed. Some additional equipment was added to this laboratory and to the Experimental Engineering Laboratory. Additional equipment has been provided in the Department of Architecture, and the number of books in the General Engineering Library has been increased.

Faculty changes.—Professor Frank H. Constant, of the Department of Civil Engineering, resigned to take charge of the Department of Civil Engineering in Princeton University. Every inducement in salary and rank was offered Mr. Constant to remain here. Assistant Professor J. P. J. Williams also resigned. To care for the work in structural engineering, Mr. John I. Parcel was made Associate Professor and Mr. George A. Maney, Instructor, both from the University of Illinois. In the Department of Drawing, Mr. L. L. Thurstone withdrew, and Mr. Lyall Decker, a graduate of Cornell, and Mr. I. Kvitrud, a graduate of Minnesota, were appointed as Instructors. In the Department of Architecture, Mr. F. K. Cowley was appointed Instructor in Freehand Drawing, and Mr. J. O. Cederberg, a practicing architect of St. Paul and a graduate of Illinois, was made Instructor in Working Drawings and Specifications.

Entrance requirements.—The entrance requirements of the College have been further simplified to meet existing conditions in the high schools, and are now on a satisfactory basis.

Curriculum.—The courses of study in the College leading to the degree of Bachelor of Science in Engineering, and to the full professional degrees have been fundamentally changed. The principles governing these changes are: first, immediate contact with engineering things for freshmen; second, the elimination of essentially cultural subjects from the freshman and sophomore years, with a view of having such subjects elected by discriminating seniors and post-seniors; third, intensifying and bringing earlier in the course technical subjects. The attempt to inject cultural subjects forcibly into two hundred freshmen, has yielded to giving these subjects, with the consent of the recipient, to the fifty surviving seniors, and the forty surviving post-seniors, or to but a part of them. The many receive some training which may make them better

subordinates. The few receive full technical work, and may widen their horizons by non-technical cultural courses.

A new course has been added to the curriculum denominated "General Engineering." It is a four-year course leading to the Bachelor's degree in Engineering and is an excellent preparation for a business career. The course deals with Mathematics, Mechanics, and Physics, includes work in Rhetoric and Economics, and contains those elements which will serve well the purposes of young men who are to engage in manufacturing or mercantile pursuits. The training leads to close, hard, accurate thinking. It is well known that many engineers work into high administrative positions in manufacture and commerce.

Research.—During the year, three Studies in Engineering have been prepared by members of the Faculty of the College and issued as bulletins. These are as follows:

Secondary Stresses and Other Problems in Rigid Frames: A New Method of Solution, by George Alfred Maney, of the Department of Civil Engineering.

An Investigation of the Concrete Road-making Properties of Minnesota Stone and Gravel, by Charles Franklin Shoop, of the Department of Experimental Engineering.

Shrinkage and Time Effects in Reinforced Concrete, by Franklin R. McMillan, of the Department of Experimental Engineering.

The last two have grown out of extensive research work done in the Experimental Engineering Laboratory.

Architecture.—The course in Architecture has developed wholesomely, with seventy-two students pursuing the work of the freshman, sophomore, and junior years. Architectural Engineering has been dropped as a separate course.

Special lecturers.—Addresses to the students by engineers of note have been of interest and value during the college year. Among these are the following: Mr. F. W. Dencer of the American Bridge Company, Mr. William T. Walker of the Minneapolis General Electric Company, Mr. F. W. Cappelen, City Engineer of Minneapolis, Mr. John L. Harrington of Kansas City, Mr. J. I. Lyle of Chicago.

Night classes.—Courses in Engineering and Architecture have been continued under the direction of the Extension Division of the University. These courses do not give credit towards degrees in the College. (See the Report of the Director of Extension.)

Statistics.—In tables I, II, and III, forming part of this report, statistics are presented of the registration in the College for the years 1873-1915, of scholarship, and of the geographical distribution for the past year. The registration numbers show a distinct upward trend in the past two years, the gain being over twenty per cent.

Scholarship.—Under the rigid scholarship rules of the Faculty, 61 students out of a student body of 475—nearly thirteen per cent—were dropped. This large elimination of men not doing good work, while it may appear cruel, is in the end kind. It is a wholesome awakening for those mistaking the college course for a primrose path, an orienting ex-

perience for those who have not yet found themselves, and a dispensation for those not equal to the rigorous technical courses. For those remaining it means progress with less impediment, and with fuller instructional service. Men of the right stuff will return and fight their way to successful scholarship; temporary elimination will but test their ultimate fitness.

Recommendations.—(1) The need of a new modern Electrical Laboratory must be reiterated.

(2) Military Engineering.—Steps should be immediately taken by the University, as a land-grant institution, to secure liberal appropriations from the Federal Government to make it practicable for students taking engineering courses to fit themselves as Officers of the Line, the Ordnance, or the Engineers. This would involve: Military Drill through the full four or five years of the course, including special detail to military service for each summer vacation; the securing of a Bachelor's degree in Engineering, with some electives permitted in Military Engineering, the science of war or in international, military, or constitutional law; a fifth year of study specifically devoted to those subjects which fit men to serve efficiently as officers of the Corps of Engineers or of the Ordnance. For students not working for appointments to the Engineers or to the Ordnance, the fifth year may not need to be taken. The war now on is demonstrating the need of engineering training for war. In what degree are the successes of the Teutonic forces on land attributable to engineering design in the machines and munitions of war, to railways, automobiles, aeroplanes, earthwork trenches and concrete galleries, rebuilt bridges and accurate map work? The newspapers state that the designer of the famous 42-centimeter Krupp gun has been given the degree of Doctor of Engineering *honoris causa* by the Technical Academy at Karlsruhe. The machines of peace in our manufactories are not very different from the machines of war. The gas engine and the machine gun are of kin. The telegraph, the telephone, and the wireless do not distinguish between messages of peace and messages of war. The sanitation of a city, a canal zone, and a camp follow the same principles and similar practices. To move a wheat-crop and to provision and munition an army are not dissimilar transportation problems. The triangulation and topographic surveys of military positions are not unlike those made to design irrigation systems. To make of our young engineers now training in the great technical schools of the country, or the best of them, officers to be called to the colors in the country's possible need, appears wise Federal policy. To secure for our best students Federal subsidy to help pay for this technical education appears wise state policy. The state will be warranted in adding specialists in Military Engineering to the faculty. At West Point the cadets—the students—are paid something over \$700 a year and living expenses for educating themselves as officers of the Army. A similar amount paid our engineering students or selected individuals of the student body to secure military training in parallelism with engineering training will be a benefit to the student, the state, and the nation.

TABLE I. REGISTRATION IN THE COLLEGE, 1873-1915

Year	No.	Year	No.	Year	No.
1873-74	4	1887-88	28	1901-02	312
1874-75	7	1888-89	25	1902-03	371
1875-76	4	1889-90	33	1903-04	395
1876-77	3	1890-91	74	1904-05	399
1877-78	5	1891-92	78	1905-06	412
1878-79	3	1892-93	154	1906-07	458
1879-80	2	1893-94	147	1907-08	473
1880-81	2	1894-95	149	1908-09	467
1881-82	9	1895-96	201	1909-10	407
1882-83	15	1896-97	186	1910-11	420
1883-84	8	1897-98*	129	1911-12	378
1884-85	7	1898-99	143	1912-13	393
1885-86	None	1899-1900	195	1913-14	438
1886-87	15	1900-01	246	1914-15	475
Total					7,670

* Prior to 1897-98 students in Mining and Chemistry are included.

TABLE II. SCHOLARSHIP STATISTICS, 1914-1915

1. Total number of students	475
2. Number of conditions	340
3. Number of failures	287
4. Number of students dropped	61
5. Number of students left	19

TABLE III. GEOGRAPHICAL DISTRIBUTION OF STUDENTS

DISTRIBUTION BY COUNTIES IN MINNESOTA

County	No.	County	No.	County	No.
Anoka	2	Jackson	1	Ramsey	73
Becker	1	Kanabec	3	Redwood	1
Beltrami	1	Kandiyohi	3	Renville	3
Benton	2	Kittson	1	Rice	5
Blue Earth	4	Koochiching	2	Rock	1
Brown	1	Lac qui Parle	2	St. Louis	24
Carlton	2	Lake	2	Sherburne	2
Chippewa	3	Le Sueur	2	Sibley	3
Chisago	2	Lyon	2	Stearns	2
Cottonwood	1	McLeod	2	Steele	2
Crow Wing	4	Mahnomen	1	Stevens	2
Dakota	1	Martin	1	Swift	2
Dodge	2	Meeker	1	Todd	3
Faribault	1	Mower	2	Wabasha	3
Fillmore	5	Murray	1	Wadena	1
Freeborn	1	Norman	2	Waseca	4
Goodhue	5	Olmsted	2	Watonwan	2
Hennepin	200	Otter Tail	1	Wilkin	1
Houston	1	Pipestone	1	Winona	4
Isanti	1	Polk	3	Wright	3
Itasca	2	Pope	1	Yellow Medicine	3
Total			422		

DISTRIBUTION IN OTHER STATES

States	No.	States	No.
District of Columbia.....	1	Montana	5
Idaho	1	North Dakota.....	4
Illinois	2	Ohio	1
Iowa	3	South Dakota.....	7
Michigan	4	Washington	4
Missouri	3	Wisconsin	9
Total.....		44	

DISTRIBUTION OUTSIDE OF UNITED STATES

Country	No.	Country	No.
Argentina	1	Norway	1
Canada	3	Russia	1
China	1	Siberia	1
Cuba	1		
Total.....		9	

Aggregate registration..... 475 Gain over last year..... 37

Note: This distribution shows the student body made up of 88 per cent Minnesota men.

Respectfully submitted,

FRANCIS C. SHENEHON, *Dean*

THE DEPARTMENT OF AGRICULTURE

To the President of the University:

SIR: I submit herewith the report of the Department of Agriculture for the year ending July 31, 1915:

ORGANIZATION

The reports for the last three years have covered quite fully the history, development, organization, and plans of the Department of Agriculture. The present report is therefore confined to important changes and results. As required by law, special reports are issued covering Agricultural Extension and the Experiment Station. A brief resumé of the Agricultural Extension work will be included in this volume under University Extension. Financial matters are discussed in the report of the Comptroller and in detail for Extension and Station in the special reports referred to.

COLLEGE OF AGRICULTURE AND HOME ECONOMICS

Beginning with the year 1914-15, beginning students were admitted in both the first and second semesters. This was accomplished by scheduling the sections for elementary subjects in both the first and second semesters. In addition to the advantage offered to high-school students who graduate at mid-year, it greatly improves the methods of handling freshman students who are delinquent in the first semester in that they can repeat the subjects of the first semester in the second semester and are not required to remain out of school until the next year. It further offers the opportunity of introducing a few more elementary technical subjects into the freshman year.

The faculty also voted to add for the year 1915-16, a new course for specialists in Agricultural Economics. The principle of delayed English credit was adopted, also the acceptance of a semester's satisfactory work in a continuation course in lieu of examination for advanced work standing, on the theory that the completion of a continuation course is a better criterion of the student's preparation than a single examination. A differentiation of the courses in Home Economics was put into effect. The old general course was supplemented by the addition of a teacher's course in Textiles and Clothing. The work in Home Economics has been especially amplified and improved.

The completion of the Inter-Campus Railway made it possible to co-ordinate work on the two campuses much more satisfactorily. Arrangements were made with the College of Medicine for courses in Physiology and Bacteriology for the girls in Home Economics. Plans were perfected by which women in the College of Agriculture could take their

physical training in the gymnasium for women on the Central Campus. The completion of the Home Economics Building on the University Farm Campus greatly improved the facilities for that work and made it possible to open some of the courses to the women of other colleges. A system was devised by which each senior student in Home Economics acquires thirty-six hours of directed teaching experience.

COLLEGE OF FORESTRY

The College of Forestry has made no important change in its curriculum. A number of auxiliary courses have been made elective and in the openings thus made may be substituted either a series of economic and business courses for those interested in the lumber business, or a series of chemistry courses for those interested in wood pulp or paper, distillates, or other similar wood products. These represent without question the broadest fields for the use of wood in the future, and yet there are no experts studying in them. The wood-using industries are now awakening to these needs and it is hoped the steps taken will lead to industrial courses covering all phases of the production and use of wood.

SCHOOLS OF AGRICULTURE

The increase in the number of high schools teaching agriculture and manual training, the closer touch they are securing with the rural communities from which they draw their students in agriculture, and the help we are able to give them in their winter short courses, are slightly reducing the pressure on our University Schools of Agriculture, making it possible to introduce more advanced work in agricultural technology. Twelve advanced courses were offered, including a normal training course for graduates of the school who desire to prepare for rural teaching. Nine students completed the normal course at the Central School, and nine at the Northwest School at Crookston.

THE EXPERIMENT STATIONS

Research assistants.—The policy of utilizing thoroly qualified graduate students as assistants in station laboratories and field work is proving highly advantageous to the Station as well as to the Graduate School and the students. The students receive the supervision of skilled research men and take part in the solution of important agricultural problems. Their research work therefore has a double interest. The quality of work secured in this way is better than that secured by hiring full-time assistants at double the cost. The quality of graduate work accomplished is also superior. There were fourteen assistants of this grade employed during the year: four in Agricultural chemistry, two in Agronomy and Farm Management, one in Horticulture, four in Soils, and three in Vegetable Pathology.

Projects.—Eighty major projects were under investigation by the Station staff during the year, covering every important phase of agriculture, including rural organization and marketing.

Publications.—Eight station bulletins, aggregating 330 pages and 54,500 copies, and three press bulletins were issued during the year. The demand for our Bulletin 130, *Feeding Dairy Cows*, by T. L. Haecker, has been very great. Nearly one hundred thousand copies have already been distributed upon individual requests in this and other states. The demand for our agricultural extension publications has also been large. The regular mailing list for these publications made up of personal applicants, is now more than fifty-five thousand. Most of these publications are prepared for the extension service by the station staff. Eight important papers were contributed to technical journals by members of the station staff.

Conferences.—In order to secure closer coördination of the work of the various divisions of the Experiment Station and sub-stations, special conferences were inaugurated at which plans and projects are fully discussed and compared. Two or more of these conferences will be held each year. As a result of this, all of the experiments of the sub-stations were organized into project groups, and definite coöperation was arranged.

EXTENSION SERVICE

As stated in the introduction of this report, a brief resumé of the work of the Extension Service is included under University Extension. It is especially noteworthy that the United States Government has undertaken definite coöperation with the states in extension work in agriculture and home economics under the terms of the Smith-Lever Act, which went into effect this year. The amount received this year was \$10,000, and this will be increased each year for seven years, when a maximum of \$111,200 will thereafter be appropriated for Minnesota, if a like amount is available for the same purposes from the state. Minnesota was one of the first states to take advantage of the new law and the work is now in very successful operation.

LAND

Ten acres were purchased adjoining University Farm on the north-east. This tract will be used in variety-testing work. Land within the borders of the present farm should be secured for testing and plot work. We are now renting 143 acres for this purpose and for growing silage corn for our stock. A careful survey was made during the year of the use to which station land is being put. The old seedling apple orchard and the old forestry plot were discontinued as the work is well taken care of now at the Fruit Breeding Station and at the Forestry Stations. The land thus set free has been assigned for plot work.

Provision was made by the Legislature for the purchase of some small tracts in connection with the West Central School and Station at Morris.

BUILDINGS

The Home Economics Building at University Farm was completed and occupied during the year. The gymnasium of the farm was practically completed in time for the use of summer school classes. The greenhouses and storage cellar were completed and occupied, and plans were approved for the Pathology Field House and the Veterinary Pathology Laboratory.

At the session of the Legislature of 1915, a special appropriation of \$10,000 was made for enlarging the hog cholera plant. Plans were promptly prepared and the work started early this spring and it will be completed before winter.

The Legislature also provided \$45,300 for an addition to the Home Economics Building, \$9,000 for improvements at the Northwest School and Station at Crookston, \$5,000 at the North Central Station at Grand Rapids, \$41,500 for improvements at the West Central School and Station at Morris, and \$7,500 for improvements at the Fruit-Breeding Station at Zumbra.

CHANGES IN STAFF

There were sixteen resignations during the year and ten new appointments. Dr. L. D. H. Weld, head of the Division of Research in Agricultural Economics, was made head of a similar department at Yale. Prof. T. B. Hutcheson was made head of the Plant Breeding work at the Virginia Experiment Station. Prof. E. W. Major became manager of a large stock farm in Southern California, and Stephen Anthony accepted an important post in the United States Department of Agriculture. Prof. H. R. Smith became live stock expert for the First National Bank of St. Paul.

SUMMARY OF ATTENDANCE

DEPARTMENT OF AGRICULTURE, 1910-1915

COLLEGE:	1910-11	1911-12	1912-13	1913-14	1914-15
Agriculture	109	127	182	276	360
Forestry	115	64	49	41	41
Home Economics.....	81	145	185	210	273
Home Economics Normal Course..	123	65	..	..	..
Total.....	428	401	416	527	674
CENTRAL SCHOOL:					
Men	606	598	611	602	597
Women	281	282	287	292	278
Total.....	887	880	898	894	875

THE PRESIDENT'S REPORT

	1910-11	1911-12	1912-13	1913-14	1914-15
DAIRY SCHOOL:					
Butter and Cheesemakers.....	98	96	103	89	100
Ice-Cream Course.....	..	..	..	28	39
FARMERS' SHORT COURSE:					
Men	199	122	129	167	540
Women	4	5	5	27	87
Total.....	203	127	134	194	627
TEACHERS' SUMMER SCHOOL:					
Men	13	51	69	64	89
Women	25	838	784	795	941
Total.....	38	889	853	859	1030
COLLEGE SUMMER SESSION:					
Men .....	..	25	28	82	56
Women .....	..	45	64	51	33
Total.....	..	70	92	133	89
SCHOOL OF TRACTION ENGINEERING...	145	38	37	38	20
JUNIOR SHORT COURSE:					
Boys	67	206	244	282	279
Girls	40	104	84	76	124
Total.....	107	310	328	358	403
COUNTRY LIFE CONFERENCE.....	..	..	..	..	27
VETERINARY SHORT COURSE.....	..	..	..	..	21
Total at University Farm.....	1909	2827	2873	3150	3905
NORTHWEST SCHOOL.....	140	160	136	161	179
Farmers' Short Course.....	115	98	128	59	*1818
Junior Short Course.....	..	21	47	54	46
Teachers' Training School.....	..	148	225	163	145
Total.....	255	427	536	437	2194
WEST CENTRAL SCHOOL.....	103	91	129	109	133
Farmers' Short Course.....	..	..	87	..	..
Junior Short Course.....	..	32	145	60	..
Teachers' Training School.....	..	..	105	109	164
Total.....	103	123	466	278	297
DEPARTMENT TOTALS.....	2267	3377	3875	3865	6390

* This number included all who attended the three-day corn show.

The following table giving registration in the college 1890-91 to 1914-15 is presented, since a number of tables which have been published from time to time furnishing the same information differ in some respects from this one. An instance of this is a table published in the President's Report for 1911-12, page 90. This table fails to include unclassified students, altho they register in this college and should properly be included in the registration.

Figures in Table I report the registration of all of the students in the Colleges of Agriculture and Forestry, for the years indicated, with

the exception of graduate students. Altho graduate students were registered on the University Farm campus prior to 1912-13, they were registered with the Graduate Committee and not in the Registrar's office. The Graduate Committee was in a sense a subcommittee of the Graduate Committee of the University. Since 1911-12 the graduate registration has been handled on the Minneapolis campus. The figures also are exclusive of the College summer session registration.

Altho there was no separate College of Forestry until 1911-12, the registration in the Forestry course is shown, as a basis for comparison, since the establishing of a separate course in 1903-04.

The two-year normal course was first offered in 1907-08, altho no record of registration in this course appears until the following year. The course was discontinued with the class receiving certificates in June, 1912.

No certified list of students exists for the years prior to 1911-12 other than those printed in the College bulletins and bulletins of General Information. Some discrepancies appear between these two sources of information. In such cases the omission of one or more names from one of the lists has been taken as evidence that the more complete list is correct.

TABLE I. REGISTRATION IN THE COLLEGE 1890-1891 TO 1914-1915

College Year	Agriculture	Home Economics	Two-Year Teachers' Course	Forestry	Total Men	Total Women	Total
1890-91.....	5	...	...	...	5	...	5
1891-92.....	3	...	...	...	3	...	3
1892-93.....	7	...	...	...	7	...	7
1893-94.....	7	...	...	...	7	...	7
1894-95.....	9	...	...	...	9	...	9
1895-96.....	10	...	...	...	10	...	10
1896-97.....	14	...	...	...	14	...	14
1897-98.....	23	...	...	...	23	...	23
1898-99.....	21	...	...	...	21	...	21
1899-1900.....	23	...	...	...	23	...	23
1900-01.....	25	2	...	...	25	2	27
1901-02.....	19	2	...	...	19	2	21
1902-03.....	14	3	...	...	14	3	17
1903-04.....	22	3	...	5	27	3	30
1904-05.....	23	3	...	7	30	3	33
1905-06.....	35	5	...	10	45	5	50
1906-07.....	40	19	...	14	54	19	73
1907-08.....	55	27	...	34	89	27	116
1908-09.....	70	37	7	74	143	44	188
1909-10.....	76	61	48	92	168	109	277
1910-11.....	109	81	123	115	224	204	428
1911-12.....	127	145	65	64	191	210	401
1912-13.....	182	185	*	49	231	185	416
1913-14.....	276	210	...	41	317	210	527
1914-15.....	360	273	...	41	401	273	674

* Discontinued.

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TABLE II. GEOGRAPHICAL DISTRIBUTION

COUNTIES		COUNTIES	
Aitkin	3	Marshall	2
Anoka	2	Martin	1
Becker	6	Meeker	5
Beltrami	2	Mille Lacs	1
Benton .....	..	Morrison	3
Big Stone	2	Mower	8
Blue Earth	8	Murray	6
Brown	5	Nicollet	5
Carlton	5	Nobles	1
Carver	2	Norman	2
Cass	1	Olmsted	6
Chippewa	1	Otter Tail	4
Chisago	5	Pennington	1
Clay .....	..	Pine	1
Clearwater .....	..	Pipestone .....	..
Cook .....	..	Polk	5
Cottonwood	3	Pope	1
Crow Wing	1	Ramsey	110
Dakota	5	Red Lake .....	..
Dodge	2	Redwood	4
Douglas	2	Renville	9
Faribault	3	Rice	5
Fillmore	5	Rock	3
Freeborn	2	Roseau .....	..
Goodhue	8	St. Louis	24
Grant	1	Scott	6
Hennepin	206	Sherburne	4
Houston	1	Sibley	4
Hubbard	2	Stearns	8
Isanti	1	Steele	7
Itasca	4	Stevens	1
Jackson	8	Swift	1
Kanabec	2	Todd	7
Kandiyohi	3	Traverse .....	..
Kittson	5	Wabasha	3
Koochiching .....	..	Wadena .....	..
Lac qui Parle	4	Waseca	5
Lake	2	Washington	8
Le Sueur	6	Watonwan	3
Lincoln	1	Wilkin	1
Lyon	2	Winona	5
McLeod	6	Wright	4
Mahnomen .....	..	Yellow Medicine	5
Total, State			606
Other States			64
Foreign Countries			4
Grand Total			674

TABLE III. FACULTIES OF THE COLLEGES OF AGRICULTURE AND FORESTRY 1901-02 TO 1914-15

Year	Associate		Assistant		Instructors	Lecturers	Total
	Professors	Professors	Professors	Professors			
1901-02.....	8	1	0	1	1	..	10
1902-03.....	8	1	0	7	..	..	16
1903-04.....	7	1	0	5	..	..	13
1904-05.....	6	1	0	9	..	..	16
1905-06.....	7	0	0	9	..	..	16
1906-07.....	7	0	0	9	..	..	16
1907-08.....	9	0	6	14	..	..	29
1908-09.....	12	0	6	22	1	..	41
1909-10.....	11	0	8	33	1	..	53
1910-11.....	10	0	7	34	1	..	52
1911-12.....	9	1	10	33	1	..	54
1912-13.....	13	4	7	39	5	..	68
1913-14.....	17	5	22	40	4	..	88
1914-15.....	17	9	25	32	3	..	86

Figures in Table III show the number of each academic rank recorded as giving instruction in the Agricultural College faculty from 1901-02 to 1914-15 inclusive. They do not include the President, Dean, or those members of the faculties of other schools and colleges who are members of the College of Agriculture Faculty by virtue of the Senate rule providing that each department giving instruction in this college shall have one representative on our faculty.

From 1902-03 to 1906-07 inclusive, from four to six Assistant Instructors were included in the published faculty lists. As these probably corresponded to the Student Assistants which are not now included, they have been omitted from the table.

While Table III may prove of some interest in showing the growth of the College Faculty, it should not be compared with the registration figures in Table I except in a very general way and after taking the following facts into consideration:

1. During the earlier years each member of the staff served on the faculties of both School and College as well as on the Station staff. This condition still exists to some extent.

2. No figures are available on which to base a statement as to the relative amount of time devoted to college work by individual members of the faculty

3. No records are available showing the number of students who took work in classes on the Minneapolis campus and in classes on this campus for which instructors were furnished by other colleges.

4. No records are available to show the number of students from other colleges registered for work in classes in the College of Agriculture.

Some evidence of the gradual segregation of School and College work during the last few years is shown in the table by the fact that the total number giving instruction has remained approximately the same during the last three years, altho the number of students has very materially increased during the same period.

TABLE IV. EFFECT OF FORM LETTER ADVISING STUDENTS, WITH HIGH-SCHOOL RECORDS AVERAGING BELOW "PASS WITH CREDIT," NOT TO ENROLL WITHOUT FURTHER PREPARATION

	September, 1914				September, 1915			
	Agr.	H. E.	For.	Total	Agr.	H. E.	For.	Total
No. of applicants accepted for admission,								
Group A.....	95	72	9	176	70	61	8	139
Per cent matriculated.	76.8	83.3	100.0	80.7	70.0	89.2	87.5	79.9
No. of applicants accepted for admission,								
Group B.....	63	32	5	100	60	35	10	105
Per cent matriculated.	69.3	68.8	100.0	69.0	70.0	71.4	70.0	70.5

Group A comprises those students who were accepted for admission direct from a secondary school and whose average grade for the four years of secondary work was "pass with credit" or "pass with honor."

Group B comprises those students whose record for the four years of preparatory work averaged below "pass with credit" and who were accordingly advised not to matriculate in the University without further preparation.

The total number of students matriculating does not represent the total freshman class for 1914-15. It differs in that unclassified students entering from the high school, freshmen who entered prior to the year indicated, and those entering with advanced standing are excluded, as well as all of those enrolling for the first time in February.

The high percentage matriculating in Forestry is due in some measure to the fact that credentials are usually submitted as for applicants for the College of Agriculture even tho Forestry is intended. In such cases the error is discovered only when the student matriculates.

Records for the two years are fairly consistent and indicate that the form letter influences about ten per cent of those who apply for admission with a high school average below that of "pass with credit."

Relative Scholarship of Students Entering from High Schools with Records Averaging Above and Below "Pass with Credit." For the purpose of this comparison, the record of each student was calculated on the following point system:

Each credit hour with a grade of A is assigned a value of 4

Each credit hour with a grade of B is assigned a value of 3

Each credit hour with a grade of C is assigned a value of 2

Each credit hour with a grade of D is assigned a value of 1

Incomplete is not counted.

Condition not removed is assigned a value of 0.

Failure not removed is assigned a value of -1.

The sum of the points received by a student for the year is divided by the total number of credit hours registered for, omitting those in which the record is incomplete or is cancelled without mark.

Credits in which the students receive failures are counted whether removed or not. This has the effect of counting a removed failure as equivalent to an unremoved condition.

On the above basis a perfect record would be..... 4.000
 A passing record would be..... 1.000
 An average below passing would be less than..... 1.000
 The lowest possible record would be..... -1.000
 The last would appear only when a student failed in all subjects.

TABLE V. COMPARISON OF SCHOLARSHIP OF STUDENTS ENTERING COLLEGE IN 1914-15 FROM SECONDARY SCHOOLS WITH AVERAGE RECORDS ABOVE AND BELOW "PASS WITH CREDIT"

	Agriculture		Home Economics		Forestry		Total		
	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	
Average of all students entering from secondary schools with average standing of "pass with credit" or "pass with honor".....	69	1.638	59	1.872	9	1.325	137	1.718	
Average of all students entering from secondary schools with average standing below "pass with credit".....	38	1.216	21	1.493	5	1.421	64	1.323	
Total.....	107	1.488	80	1.772	14	1.359	201	1.592	
Graduates of School of Agriculture .....	..	.....	..	.....	..	.....	6	1.481	
	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	
Students with standing below 1.000	A	10	14.5	4	17.0	2	22.2	16	11.7
	B	10	26.3	1	4.8	0	0.0	11	17.2
Total.....		20	18.7	5	6.3	2	14.3	27	13.4
Students with standing from 1.000-2.000	A	35	50.3	28	37.2	3	33.3	66	48.1
	B	21	55.3	19	90.4	5	100.0	45	70.3
Total.....		56	52.4	47	58.6	8	157.1	111	55.3
Students with standing from 2.000-3.000	A	20	29.0	26	44.1	4	44.5	50	36.5
	B	7	18.4	1	4.8	0	0.0	8	12.5
Total.....		27	25.2	27	33.8	4	28.6	58	28.8
Students with standing above 3.000	A	4	5.8	1	1.7	0	0.0	5	3.7
	B	0	0.0	0	0.0	0	0.0	0	0.0
Total.....		4	3.7	1	1.3	0	0.0	5	2.5

Group A comprises those students who were accepted for admission direct from a secondary school and whose average grade for the four years of secondary work was "pass with credit" or "pass with honor."

Group B comprises those students whose record for the four years of preparatory work averaged below "pass with credit" and who were accordingly advised not to matriculate in the University without further preparation.

The latter part of the table shows the distribution of students with standings between the following limits:

Below	1,000
Between	1,000 and 2,000
Between	2,000 and 3,000
Above	3,000

This shows a more marked difference between the two groups of students than is apparent in a mere comparison of the average standing for each group.

The students included in this table are those entering the University from a secondary school, both to the freshman class and as unclassified students. There has been omitted from the table: (1) members of the freshman class who entered with advanced standing or who first enrolled prior to 1914-15, (2) those who cancelled their entire registration without mark before the close of one semester, (3) a small number who for one reason or another received incompletes in all subjects.

FARM EXPERIENCE FOR ENTRANCE

The entrance requirements of the College of Agriculture have been changed during the past year to include practical farm experience in the case of all those students entering the Agricultural courses. The regulation as adopted by the faculty is as follows:

"A working knowledge of the fundamental operations of the farm, such as harnessing horses, milking cows by hand, plowing, planting, and harvesting the common crops, will be required of those entering the Agricultural courses.

"It is provided, however, that students transferring from other colleges or universities to the junior year of any of the special science courses will be exempt from this requirement."

The effect of this added requirement may be estimated from the farm experience records of students enrolling in the freshman class in 1914-15. The members of this class, while not required to present evidence of farm experience for entrance, were required to have at least six months of approved farm experience before entrance or to obtain such experience under the supervision of the Committee on Farm Experience, during the summer vacations following their freshman and sophomore years. As a result, the amount of farm experience in the case of each matriculant was recorded.

Total number of freshmen in Agriculture.....	138
Freshmen who cancelled entire registration without mark or received incompletes in all subjects.....	6.5%
Freshmen who presented six months or more of approved farm experience	63.8%
Freshmen who failed to present all of the experience required for graduation but who would probably have been able to qualify for admission under the new regulation.....	17.4%

Freshmen who certified to having had no farm experience or who failed to make any report and were consequently held for farm experience during the following summer..... 12.3%

The scholarship records of these three groups of students were averaged with the following results:

Those presenting six months or more of farm experience..... 1.534
 Those presenting less than six months of farm experience..... 1.613
 Those presenting no farm experience 0.833

While these figures show a very marked difference to the prejudice of those entering with no farm experience, it should be kept in mind that this last group is the smallest of the three and consequently the percentage of error is probably high. Two or three additional year's records should be obtained before drawing definite conclusions.

LINES OF SPECIALIZATION

TABLE VI. DISTRIBUTION OF GRADUATES FROM AGRICULTURAL COURSES FOR THE YEARS 1913-15 INCLUSIVE. (EXPRESSED AS PER CENT OF TOTAL NUMBER RECEIVING DEGREES FROM AGRICULTURAL COURSES.)

	Year Introduced	1913	1914	1915
Agricultural Chemistry.....	1914-15	...	...	0.0
Entomology and Economic Zoology.....	1913-14	...	0.0	0.0
Plant Pathology.....	1913-14	9.5*	5.9	0.0
Soils	1914-15	...	...	2.4
Total—Special Agricultural Science Courses				
		9.5	5.9	2.4
Agricultural Education.....	1913-14	...	2.9	11.9
Agricultural Education—Manual Training	1915-16	...	...	...
Prior to				
Agronomy and Farm Management.....	1912-13	42.8	26.5	35.8
Dairy and Animal Husbandry.....	1912-13	33.3	50.0	47.5
Horticulture	1912-13	14.4	14.7	2.4
Total—General Agricultural Courses		90.5	94.1	97.6
Total number.....		21	34	42†

* NOTE: Although the course in Plant Pathology as now outlined did not appear as a distinct course until 1913-14, a number of students were registered for the course as previously outlined in the "Course in Special Sciences" which included opportunities for specialization in Entomology, Plant Pathology, Soils, and Chemistry.

† NOTE: The figures for 1914-15 include all those who have received their degrees prior to November 1, 1915. In addition to these, one degree in Dairy and Animal Husbandry was recommended by the Faculty subject to the completion of certain work which was unfinished at the above date.

There are at present ten lines of specialization open to a student in Agriculture. These may be classified as (1) Special Agricultural Science Courses, (2) General Agricultural Courses. Two of these courses, Agricultural Economics and Agricultural Education-Manual Training, appear for the first time in the current bulletin.

The registration in the special agricultural science courses is comparatively very small. This is to be expected, since these courses are intended for only the few who intend to specialize along these lines and pursue graduate work, usually with the intention of continuing in Experiment Station work.

Among the general agricultural courses, the course in Dairy and Animal Husbandry shows a very marked popularity throughout the four years for which data are available.

TABLE VII. DISTRIBUTION OF STUDENTS REGISTERED IN THE AGRICULTURAL COURSES DURING THE YEAR 1914-15 (EXCLUSIVE OF FRESHMAN AND UNCLASSED STUDENTS) (EXPRESSED AS PER CENT OF TOTAL ENROLLMENT OF EACH CLASS.)

	Sophomores	Juniors	Seniors	Total
Agricultural Chemistry.....	1.0	1.7	0.0	0.9
Agricultural Economics	0.0	1.7	0.0	*0.5
Entomology and Economic Zoology.....	0.0	0.0	0.0	0.0
Plant Pathology.....	1.0	1.7	2.1	1.4
Soils	0.0	0.0	2.1	0.5
Total, Special Agricultural Science Courses	2.0	5.1	4.2	3.3
Agricultural Education	20.0	23.3	12.5	19.2
Agricultural Education—Manual Training...	0.0	0.0	0.0	†0.0
Agronomy and Farm Management.....	19.1	15.0	33.3	21.1
Dairy and Animal Husbandry.....	49.5	45.0	45.8	47.4
Horticulture	3.8	11.6	4.2	6.2
Total, General Agricultural Courses....	92.4	94.9	95.8	93.9
Specialization not indicated.....	5.6	0.0	0.0	2.8
Total number enrolled.....	105.0	60.0	48.0	213.0

* First appeared in 1915-16 bulletin, but was formulated early in the year and was chosen by one student.

† First appeared in 1915-16 bulletin.

Table VII gives additional data along the same line as Table VI showing the distribution of students registered in Agricultural courses during the academic year of 1914-15 by classes. This may be taken as showing the general trend of the distribution among the lines of specialization.

All students are required to indicate the line in which they intend to specialize by the close of their sophomore year. The work of the freshman year is the same for all students and the students registered in the freshman class as well as those registered as unclassified students have not been included in the table.

Respectfully submitted,

A. F. Woods, *Dean and Director.*

THE LAW SCHOOL

To the President of the University:

SIR: I beg leave to submit the following report of the work of the Law School of the University during the session 1914-15.

Attendance.—During the session 1913-14 the attendance upon day classes in the Law School reached its lowest stage since 1891. An inspection of the registrations since that date shows a steadily ascending curve until 1908. From that date the curve descends rapidly under the depressing influence of increasing the admission requirement, first to one year, and then to two years of college work. An inspection of table I shows that the lowest point in the curve was reached in 1913-14, as stated above, and that with the session 1914-15, the expected ascent has begun. It is reasonable to expect that from this time forward the attendance curve will slowly but steadily rise. During the session 1914-15, for the first time in the history of the Law School, no night students were registered. In making comparisons with preceding years, care must therefore be taken to exclude night students from the totals of those years.

TABLE I. REGISTRATION

	Regular		Special		Total	
	1913-14	1914-15	1913-14	1914-15	1913-14	1914-15
First year.....	44	51	30	29	74	80
Second year.....	49	32	6	12	55	44
Third year.....	27	49	6	4	33	53
					162	177

A further inspection of table I shows not only an increase in the total number registered in the first year class, but also a marked increase in the ratio of regular students to specials. Such a tendency is to be both expected and desired. The figures given in this table also show strikingly the instability of the entering groups of special students. It is perfectly manifest that, as a group, they can not keep the pace, and it is to be expected that their relative numbers will steadily decrease.

Faculty.—No change has taken place in the faculty excepting the appointment of Mr. H. K. Elder in place of Mr. J. C. Benson, resigned, as instructor in Practice in charge of the Legal Aid Bureau.

Lecturers.—I am glad to be able to report that Mr. Frank B. Kellogg of the St. Paul bar has been added to the corps of special lecturers. During the session covered by this report Mr. Kellogg gave a course of six lectures upon the "Commerce Clause of the Federal Constitution," generously refusing any compensation for the service thus rendered. Judge Homer B. Dibell has also during the year increased his services

to the University by giving a full course on the Law of Mortgages, having during the preceding summer prepared for his class a special casebook on that subject.

Instruction.—The reorganization of the curriculum having been completed during the preceding session, no notable changes have been made during the session of 1914-15, except that the course in Practice has been considerably extended and developed. This extension of Practice work, involving a greater expenditure of time than is ordinarily given to such work in law schools, seems fully justified by the gratifying success which is attending Professor Morgan's efforts to work out an efficient method of teaching Practice in the Law School. The practical aspect of this instruction is very greatly emphasized by the use of the Legal Aid Bureau as a sort of laboratory wherein the students work under conditions of actual practice and with real clients. The remarkable development of the work of the Legal Aid Bureau, and the wide extent of the experience that it affords students serving therein, may be best understood from the reports of the attorney in charge of that Bureau, which show that during the year represented by the session 1914-15 about twenty-five hundred separate cases were disposed of. This "legal clinic," which, so far as my knowledge extends, has known its first and most complete development in connection with the work of this Law School, is exciting wide-spread interest throughout the country.

Library.—The gratifying progress of the library noted in my last report continues unabated, as readily appears from the subjoined figures:

Volumes in Library September 1, 1912.....	17,000
Volumes added during 1912-13.....	1,540
Volumes added during 1913-14.....	1,760
Volumes added during 1914-15.....	2,702
Total.....	23,002

It will be observed that of the total number of books now in the Law Library, 6,002, or 26 per cent, have been added during the three years in which Mr. Pulling has had charge of the library. Of the 2,702 volumes added during the session 1914-15, 575 volumes, having a market value of nearly \$1,500, were obtained by gift or by exchange. It is necessary again to call attention to the need of larger, fireproof housing for the Law Library. In its present quarters the library is not only sorely cramped for room, but is also constantly exposed to the danger of fire, or the worse danger of water from the sprinkler system.

Statistics of scholarship.—Following are certain tables of statistics, showing in summary form the work done by the students in the Law School during the session.

Table II shows the scholarship statistics of all classes.

TABLE II. SCHOLARSHIP STATISTICS

	1st year		2nd year		3rd year	
	1st sem.	2nd sem.	1st sem.	2nd sem.	1st sem.	2nd sem.
1. Number enrolled	78	63	43	40	50	46
2. Number taking examinations	64	59	41	38	47	44
3. Number passing all examinations	27	28	21	19	29	39
4. Number delinquent in one subject only	11	10	8	6	13	2
5. Number delinquent in three or more subjects....	17	17	11	6	0	1
6. Percentage of delinquencies to total examinations....	29	27	22	20	9	4
7. Percentage of successful students to total enrollment	34	44	48	47	58	84

Table III concerns only the first-year class, and is intended to show the effect of preliminary training upon the success of the students in the study of law.

TABLE III. PRELIMINARY TRAINING AND SCHOLARSHIP

First Year Class, 1914-15

	Regular				Special	
	Academic seniors and graduates		Having two years of college		Less than two years of college	
	1st sem.	2nd sem.	1st sem.	2nd sem.	1st sem.	2nd sem.
1. Number enrolled	19	15	29	27	30	21
3. Number taking examinations	18	15	25	23	21	21
3. Number passing all examinations	10	9	11	13	6	6
4. Percentage of failures and conditions to examinations taken	16	19	28	16	43	45
5. Percentage of successful students to total enrollment	55	57	36	50	20	33
6. Number delinquent in three or more subjects....	2	2	6	4	9	11

Table IV shows the number of conditions, failures, and incompletes given to all the classes during both semesters of the session.

TABLE IV. CONDITIONS, FAILURES, AND INCOMPLETES

	Regular students	Special students	Total
First semester			174
Incompletes	3	1	4
Conditions	85	43	128
Failures	21	21	42
Second semester			135
Incompletes	5	0	5
Conditions	76	33	109
Failures	6	15	21

Table II, considered in all of its items, affords reassuring evidence of a general improvement in scholarship and of growing stability in the student body. Table III, taken in connection with similar statistics for the two preceding sessions, shows that experience justifies the general opinion that students who have received a considerable liberal education before entering the Law School are notably more successful than those who have never pursued their studies beyond the high school. It is probable that the reason for the markedly greater success of the students who have obtained the better preliminary training is due rather to the greater intellectual and moral strength indicated by the pursuit of liberal studies than to the larger store of knowledge possessed. But whatever be the explanation, it would seem that the statistics already afford abundant evidence justifying the requirement of the more thorough preliminary training now imposed for admission to the Law School.

Equipment.—The efficiency of the Law Building has been much increased during the past session by the installation of a successful ventilating system. The nuisance caused through the proximity of the Great Northern Railway tracks by passing trains and shifting freight locomotives, has, however, in no wise abated, but rather increased. The loss of time in the Law School incident to this nuisance is well nigh intolerable.

Respectfully submitted,

W. R. VANCE, *Dean*

THE MEDICAL SCHOOL

To the President of the University:

SIR: I submit the following report covering: (a) the Medical School (proper), (b) the University Hospital, (c) the School for Nurses, (d) the School for Embalmers, (e) the School of Public Health, for the school year 1914-15.

THE MEDICAL SCHOOL (PROPER)

The Faculty.—The following new appointments were made to the Medical School: A. R. Colvin, M.D., Assistant Professor of Surgery; W. H. Condit, B.S., M.D., Instructor in Obstetrics and Gynecology; E. R. Hoskins, M.A., Instructor in Histology and Embryology; J. A. Myers, Ph.D., Instructor in Anatomy.

The following promotions were made: R. O. Beard, M.D., from Secretary of the Medical School to Assistant Dean and Secretary; E. T. Bell, B.S., M.D., from Assistant Professor to Associate Professor of Pathology; W. P. Larson, M.D., from Assistant Professor to Associate Professor of Bacteriology; A. T. Mann, B.S., M.D., from Assistant Professor to Associate Professor of Surgery; J. F. McClendon, Ph.D., from Instructor to Assistant Professor of Physiology; Oscar Owre, M.D., C.M., from Instructor to Assistant Professor in Genito-Urinary Diseases; A. C. Strachauer, M.D., from Instructor to Assistant Professor of Surgery; John S. Abbott, B.A., M.D., from Assistant to Instructor in Surgery; Ernest L. Baker, M.D., from Assistant to Instructor in Medicine; Paul F. Brown, B.A., M.D., from Assistant to Instructor in Surgery; W. E. Camp, M.A., from Assistant to Instructor in Anatomy; C. C. Chatterton, M.D., from Assistant to Instructor in Orthopedic Surgery; Wallace Cole, M.D., from Assistant to Instructor in Orthopedic Surgery; Bronson Crothers, B.A., M.D., from Assistant to Instructor in Pediatrics; E. L. Gardner, B.S., M.D., from Assistant to Instructor in Medicine; J. A. Johnson, M.D., from Assistant to Instructor in Surgery; Fred J. Pratt, M.D., from Assistant to Instructor in Eye, Ear, Nose and Throat Diseases; C. A. Reed, B.S., M.D., from Assistant to Instructor in Orthopedic Surgery; F. C. Rodda, M.D., from Assistant to Instructor in Pediatrics; Carl M. Scherer, B.S., M.D., from Assistant to Instructor in Pediatrics; John P. Schneider, M.D., from Assistant to Instructor in Medicine; J. H. Simons, B.S., M.D., from Assistant to Instructor in Obstetrics; H. B. Zimmermann, M.D., from Assistant to Instructor in Surgery.

Dr. S. E. Sweitzer has been placed in charge of the Division of Dermatology; Dr. Franklin R. Wright, in charge of the Division of Urology; Dr. Arthur J. Gillette, in charge of the Division of Orthopedic Surgery.

Dr. James E. Moore, Professor of Surgery and Chief of the Department retired from private practice and offered to devote his whole time to the University. This generous offer was accepted.

The constitution of the Administrative Board was changed to provide for the addition of a second member chosen by the General Faculty. Dr. Robert A. Hall, of the Department of Pharmacology, was elected.

The following were absent on leave for purposes of study: Dr. Harold E. Robertson, Professor of Pathology, (throughout the school year), and Dr. F. H. Scott, Associate Professor of Physiology, (during the first semester).

The following resignations from the Medical Faculty were accepted: Charles Lyman Greene, M.D., Professor and Chief of the Department of Medicine; George Douglas Head, B.S., M.D., Associate Professor of Medicine; J. S. Gilfillan, M.D., Assistant Professor of Medicine, (later reappointed); H. E. Canfield, M.D., Instructor in Eye, Ear, Nose and Throat Diseases; Charles D. Freeman, M.D., Instructor in Dermatology; Alexander R. Hall, M.D., Instructor in Medicine, (later reappointed); Peder A. Hoff, M.D., Instructor in Medicine; John E. Hynes, M.D., Instructor in Medicine; G. M. Olson, M.D., Instructor in Dermatology.

Through the death on June 12, 1915, of Dr. Abraham Barker Cates, Associate Professor of Obstetrics, the Faculty lost a valued member. He had filled a professorship in this department since the organization of the School in 1888. He was a singularly gifted teacher, whose wholesome influence is borne by hundreds of graduates of the institution.

Registration statistics.—During the year 1914-15, 217 students were registered in the Medical School, distributed as follows: 75 in the third (freshman) year, 61 in the fourth (sophomore) year, 36 in the fifth (junior) year, 36 in the sixth (senior) year and 9 special students. The rule adopted in 1911 requiring an intern service of one year in an approved hospital as prerequisite to the M.D. degree, went into effect on the 1915 class. But 21 students engaged in pre-medical work in the University when the rule was adopted were exempted from the rule and received the M.D. degree. The rest of the seniors of 1914-15 will receive their degrees in 1916.

Summer Session.—The Medical Summer School program was considerably extended and a larger number of students attended. It is believed that the Medical Summer School has become a permanent success. A plan by which superior students by taking two summer courses of eight weeks each may anticipate their internship by one semester was put into effect with nine students in attendance. The total summer registration in the Medical School was 125, of whom 14 were physicians, 6 graduate students, and 105 undergraduates, distributed as follows: Medical students, 56; Dental students, 14; College of Agriculture (Home Economics), 16; College of Science, Literature, and the Arts, 18; Nurses, 1.

Graduate medical study.—This has been an important topic during the past year. The teaching fellowship system for the clinical branches adopted last year has been put into operation. These positions carry sti-

pends of \$500 the first year, \$750 the second year, and \$1,000 the third year. Fellows give about one fourth of their time to teaching and routine work in the clinics and the rest of their time to graduate study. Five fellows were appointed for the year 1914-15, and five additional fellowships have been provided for 1915-16. One graduate scholar was appointed for 1914-15.

The University has entered into a contract with the Mayo Foundation whereby the facilities of the Foundation will be used for graduate medical teaching and research. After six years, if the trial period proves successful, the Foundation will become a permanent part of the University. While closely related to the Medical School, the work in the Mayo Foundation is conducted by the Graduate School, the Dean of which will report concerning it.

Clinical facilities.—The problem of adequate clinical facilities for the teaching of medicine continues baffling and unsolved. Two advances of note were set going during the past school year. The completion of the Service building will release space in the Elliott Hospital sufficient to accommodate about sixty additional beds. Also arrangements are being made to place the dispensary in the basement of Millard Hall, and this important department, located with great disadvantage for many years at Seven Corners, will be in close relation with the rest of the Hospital after September 1, 1915. But these improvements do not solve the main problem of clinical facilities. Our hospital capacity should be doubled, and should include adequate divisions for children's diseases, contagious diseases, nervous diseases, women's diseases, and obstetrics before our students can be assured of teaching of the highest order. A small hospital does not give adequate variety nor cases sufficient for personal work on the part of students. Each and all of these needs should appeal with equal force to private philanthropy and to the State.

The necessity of a home for the School for Nurses becomes more pressing all the time. See the report of the Superintendent of this School. This also would be an excellent work to be undertaken by philanthropic friends of the University.

Limitation of classes.—Largely on account of inadequate clinical opportunities the Medical School has recommended that entering classes be hereafter limited to eighty. The Board of Regents has approved this recommendation and it will go into effect in 1916.

Social service.—Provision has been made for a social service department in connection with the University Hospital. This work will begin about November 1, 1915.

THE PRESIDENT'S REPORT

UNIVERSITY HOSPITALS

The report of the Superintendent is submitted as follows:

COMPARATIVE STATISTICAL STATEMENT

	1912-13	1913-14	1914-15
<i>General</i>			
Patients in hospital, beginning of period	82	117	121
Patients admitted during year.....	1,453	1,786	1,906
Patients treated during year.....	1,535	1,903	2,027
Total days hospital care.....	39,391	45,389	47,450
Average days per patient.....	30.39	30.04	23.42
Highest daily census	136	150	147
Daily average number of patients..	108	124	130
<i>Average costs</i>			
Daily average cost per patient.....	*2 01	1.65	1.573
Daily cost per capita for provisions for all persons supported.....	.287	.279	.252
<i>Out-patient department</i>			
New patients treated	11,501	13,525	14,361
Total patients' visits	40,457	47,347	52,681
Average visits per day.....	133.52	155.21	173.86
Average cost per patient's visit..... (2 years)		.169	.156
Total prescriptions issued (drug and optical)	16,174	19,554	21,149

SHOWING NUMBER OF PATIENTS ADMITTED, DISCHARGED, AND DIED
AUGUST 1, 1914, TO JULY 31, 1915, INCLUSIVE

	In Hospital August 1, 1914	Admitted	Discharged	Died	Remaining July 31, 1915
Medicine	49	413	342	48	49
Neurology	3	45	44	3	6
Pediatrics	12	423	371	37	23
(Including new-born)					
Surgery	39	415	439	15	37
Eye and ear	4	97	81	1	7
Nose and throat..	1	90	93	2	0
Obstetrics	13	423	411	2	16
Total.....	121	1,906	1,781	108	138

As shown in Table 1 above, there was an increase in

1. The number of patients admitted
2. The total number of cases treated
3. The total days of hospital care

* Includes \$8,000 clinical salaries charged to Hospital Support.

There was a decrease in

1. The average number of days of hospital care per patient—the decrease amounting to 6.62 days per patient.
2. The daily per capita cost of maintenance, the decrease amounting to \$.077 per capita.
3. The daily cost per capita for provisions for all persons supported, the decrease amounting to \$.027 per capita.

The reductions in cost above cited were due to a small increase in the daily average number of patients and to the more economical purchase of supplies.

The completion and occupation of the new Service Building in February, 1915, resulted in the vacation of the first floor of the Elliot Building, which had formerly housed the kitchen, dining rooms, drug room, and store room and of the frame structure at 413 Delaware Street, previously used as quarters for domestic employes.

To afford housing facilities for the increased number of students in the School for Nurses, the building at 300 State Street, which had been assigned for the use of the School by the Board of Regents, was made suitable for the purpose by some slight alterations and redecoration, and occupied early in February, 1915.

The changes in the first floor of the Elliot Memorial Building essential to its use for ward purposes have been undertaken. The use of this floor as quarters for patients will increase the capacity of the Elliot Memorial Building to 192 beds.

Respectfully submitted,

L. B. BALDWIN, *Superintendent.*

THE SCHOOL FOR NURSES

The report of the Superintendent is submitted as follows:

Senior student nurses	13
Junior student nurses	12
Student nurses matriculated.....	19
Student nurses withdrawn.....	2
Student nurses graduated.....	5
Certificates to accredited students.....	4
Accredited nurses entered.....	9
Accredited nurses withdrawn.....	1
Accredited nurses died.....	1

In February, 1915, a teaching assistant was appointed, whose time is spent not only in holding classes, but in following the students into the wards, supervising the nursing care of the patients. This has been of great value to the patients and an absolute necessity in the proper training of the nurses.

Many applications for short postgraduate courses are being refused each year, because of the impossibility of housing the applicants. These courses could be well given and would answer a very real need of the

THE PRESIDENT'S REPORT

nursing profession, but it will be impossible to offer them until increased housing capacity is provided.

The School is attracting each year more women with superior preliminary training.

Respectfully submitted,

LOUISE M. POWELL, *Superintendent.*

SCHOOL OF EMBALMING

The second annual session was held in January and February, 1915. Fifty-four students were registered, of whom forty-three satisfactorily concluded the course.

It has been arranged that the course be extended to eight weeks hereafter, and that one year of high-school work be required for admission,

SCHOOL OF PUBLIC HEALTH

It has not been possible to actuate this division as a teaching unit. Some work was done in regard to University health matters.

Respectfully submitted,

E. P. LYON, *Dean*

THE COLLEGE OF DENTISTRY

To the President of the University:

SIR: I herewith submit my report as Dean for the year 1914-1915.

Four-year course.—Perhaps the greatest progress in dental education ever recorded has been made during the past year. This progress consists in the adoption of the four-year course by the various colleges, and its inauguration not later than September, 1917. Minnesota decided to begin this course in September, 1915, as optional and to make it compulsory in 1916.

Better prepared matriculants.—An educational note of great interest to the College of Dentistry is the increased number of better prepared matriculants; forty per cent of the 1914-15 class have had one or more years of academic work. The applicants for 1915-16 number 210 at present writing; of the ninety who can be admitted, over forty per cent have gone beyond the high school in their preparation.

Extension course in oral surgery.—In February and March the College offered a five-weeks extension course in Oral Surgery, conducted by Dr. Imm. Ottesen of Staten's Tandlaege Institute, Kristiania, Norway. One hundred fifty dentists, besides the students and faculty of the College, took advantage of the course, which was conducted at the college surgery.

Outside service.—Members of the faculty are continually called upon to fill lecture and clinic engagements in this country and in Europe; these are many times extended to graduate courses. Three of our professors rendered such service at the joint meeting of the Scandinavian Societies in Kristiania, 1914, and one gave a graduate course there, privately conducted. The same course was later offered under the auspices of the College of Dentistry Alumni Association of Copenhagen.

Attendance.—The Summer School showed an increase of about twenty per cent in attendance. This seems now to be a much needed institution, not only for the instruction offered in technique and theory, but also for the successful maintenance of the clinic. Our foreign attendance has shown no diminution on account of the war.

Dental teachers to meet in Minneapolis.—During the year the University invited the American Institute of Dental Teachers to hold their next annual meeting in Minneapolis. The invitation was accepted, and the date fixed at January 25, 26, and 27, 1916.

Respectfully submitted,

ALFRED OWRE, *Dean*

THE SCHOOL OF MINES

To the President of the University:

SIR: I herewith submit my report for the University year, 1914-15:
Registration.—The total registration during the year was eighty-seven,
 distributed as follows:

Seniors	15
Juniors	12
Sophomores	20
Freshmen	31
First year students.....	9
	9
Total.....	87

Geographical distribution of students.—During the year 1914-15, stu-
 dents have been registered from Minnesota counties as follows:

Aitkin	1	Otter Tail	2
Brown	1	Ramsey	18
Crow Wing	1	Rice	1
Fillmore	1	St. Louis	5
Goodhue	1	Stearns	3
Hennepin	32	Wadena	1
Jackson	1	Watonwan	1
Kandiyohi	1	Washington	2
Morrison	2		

Students registered also from outside the state as follows:

Arizona	1	Peru	1
China	1	South Dakota	2
New Jersey	1	Washington	1
North Dakota	1	Wisconsin	5

Withdrawals.—During the year twenty-one students withdrew. These
 students were distributed by classes as follows:

Seniors	0
Juniors	1
Sophomores	4
Freshmen	11
First year students	5
	5
Total.....	21

The reasons for such withdrawal are as follows:

Deceased	1
Deficient	4
Financial	4
To schools and colleges outside the University of Minnesota.....	1
To schools and colleges within the University of Minnesota.....	8
Unknown	3
	3
Total.....	21

The curriculum.—No important changes have been made in the min-
 ing and metallurgical curriculum. The second year spent in temporary

quarters with limited accommodations made it impossible to introduce new or to develop old courses. It is unfortunate that the Board of Regents at the request of the Commandant of the Military Department made military drill compulsory for the coming year. On account of the quantity and character of work required of our students the faculty were opposed to the introduction of drill in our courses. It will undoubtedly affect attendance in the future.

Experiment station.—The period covered by this report was characterized by general financial depression and comparative inactivity in the iron mining industries. Fewer tests were made in the Station than in the preceding year, but their character was such that much more detailed and exhaustive work was required. One hundred forty-seven cases were brought to the attention of the Station as against two hundred sixty-nine of the preceding year. The work included the burning of clay and assay of specimens for gold and silver. Eighty-nine samples were submitted which required only sight examinations or simple blowpipe test to identify. Much time was spent in consultation with citizens of the state who submitted their samples in person.

The following concentration tests were made:

Company	Mine	Range	Weight
Pittsburgh Steel Ore Company.....	Rowe.....	Cuyuna.....	40,000
Inland Steel Company.....	Thompson.....	Cuyuna.....	60,000
D. E. Woodbridge.....	St. Clair.....	Mesabi.....	6,000
J. G. Howard.....	.....	Vermilion.....	50
Total.....	.....	.....	106,050

The mining companies of the state continue to show their interest in our experimental work. The Great Northern and Minneapolis, St. Paul & Sault Ste. Marie railroads continue to haul free of charge all ores for experimental purposes from the Mesabi and Cuyuna ranges. During the year the Duluth, Missabe & Northern railway granted similar privileges.

Beside the routine work above described much experimental work has been done. This includes the work on magnetic ores of the eastern Mesabi and the study of concentration possibilities on the Cuyuna ranges. There have been outlined in detail a comprehensive series of eight economic bulletins. Work on these bulletins has been begun and will be continued during the coming year.

Eastern Mesabi magnetic ore.—A trip was made to the eastern Mesabi in July, 1914, and one thousand pounds of representative material secured for experimental purposes. Only a dry magnetic separator was available for testing. It was soon found that with the fine grinding necessary to liberate the grains of magnetite, wet magnetic separation was absolutely necessary. A powerful electromagnet was constructed for testing purposes and by using a glass tube with proper attachments, very satisfactory wet tests were made. The amount of ore which could be tested was so small that a special magnetic log washer was evolved by the Experiment Station staff. A patent has been applied for. An ex-

perimental machine has been developed and much work must be done to determine the capacity and proper working conditions of a commercial machine.

Cuyuna Range ores.—Much interest has been shown in regard to the possibility of concentrating low grade ores of the Cuyuna range. In October, 1914, a trip was made to the range for the purpose of obtaining samples for experimental work. Many tests were made on certain types of low grade iron and manganiferous ores. Bulletin No. 3 of the Experiment Station contains the results of this experimental work and economic information collected.

Series of economic bulletins.—After completing the bulletin on Concentration of Cuyuna Ores, information was gathered concerning iron ore concentration practices in Minnesota and elsewhere. Present available information is fragmentary and lacks many details. Therefore, a bulletin on the beneficiation practice seemed desirable. After conferences with several leading mining men of the state it was suggested that the Experiment Station publish a series of economic bulletins covering all phases of the iron mining industry in Minnesota. These bulletins will cover the following topics:

- No. 1. History
- No. 2. Economic geology
- No. 3. Mining methods and practices
- No. 4. Beneficiation practice
- No. 5. Mining economics
- No. 6. Transportation
- No. 7. Furnace distribution of Minnesota ores
- No. 8. Statistics

These bulletins will require a great amount of careful investigation, detailed comparisons, and the expenditure of much time. The information that they will contain will be of value to the state at large and particularly to the Tax Commission in their consideration of the question of equitable taxation of mining companies and ores in Minnesota.

Experiment Station Board.—In July, 1915, the Director appointed a board consisting of five members for the purpose of considering all matters of policy and advising him in regard to the same. This board has assisted greatly in coördinating the several activities of the station.

Publications.—Bulletin No. 3, *Preliminary Report on the Concentration Problems of the Cuyuna Ores*, was issued May, 1915. The bulletin is well spoken of. Many applications for copies have been received. Bulletin No. 4, *Bibliography of Minnesota Mining and Geology*, is now in preparation and will be ready for distribution the early part of next year.

Service to the Tax Commission.—The work of making ore estimates for the Minnesota Tax Commission, which was begun in June, 1909, has continued, and to date there have been estimated 1,531,517,778 tons of ore. The work during the past year has been done on the Mesabi, Vermilion, and Cuyuna ranges. Sixty-five properties have been estimated in that time, making a total of 208,283,892 tons. These ore estimates are used by the Tax Commission as a basis for the valuation of mineral properties

in the state of Minnesota. There have been added, due to our service to the state, 198,836,192 tons of ore over that reported by the various iron mining companies. State and local taxes may be placed at 10 cents per ton. An estimate of our service figured on the increase of tax receipts would therefore represent \$19,883,619. Preliminary reports have been made on a number of properties not yet submitted for final estimate. Special technical information has been furnished the Minnesota Tax Commission in many cases where tonnage estimates were not involved. In the preparation of these various reports much field work has been necessary.

The School of Mines Building.—The new School of Mines building was begun July 25, 1914, and is far enough completed to warrant moving in. Classes will meet in the new building September, 1915.

Future needs.—The old testing building, which is occupied jointly by the Experiment Station and the Department of Metallurgy, is more crowded than ever and some provision must be made shortly to relieve the congestion. The building is in bad repair and a careful survey of the rear walls, which rest on the banks of the river, should be made from time to time.

Our new building lacks equipment. Our fire insurance will to some extent make up loss of apparatus, but as mining and metallurgical work is constantly changing, new equipment is imperative.

Respectfully submitted,

W. R. APPLEBY, *Dean*

THE COLLEGE OF PHARMACY

To the President of the University:

SIR: I herewith submit my annual report for the year 1914-15.

Registration.—The College of Pharmacy closed its twenty-third year on July 31, 1915. The 1915 University commencement was the twenty-second of the College. A total of thirty students graduated, seven taking the degree Bachelor of Pharmacy, Phm.B., and twenty-three the degree Graduate in Pharmacy, Phm.G. The total registration during the year was 101: sixty-seven first-year, thirty-three second-year, and one graduate students. The total enrollment of the year before was ninety-eight and of the year preceding that, eighty-six. This increased enrollment is no doubt largely due to the fact that beginning with the current year the entrance requirements have been placed at a full high-school or equivalent qualification, and that beginning with 1916-17 the regular course will continue over a period of three years. During the year seven students were dropped: three on account of illness; two because of poor scholarship; one on account of lack of funds; one transferred to the College of Dentistry. The faculty gave regular instruction to a total of 156, including fifty-five sophomore medical students. A number of lectures on materia medica and medicinal plant culture were given to nurses and high-school students.

Geographical distribution of students.—The student-body represented the following political divisions:

<p>STATES:</p> <p>Iowa 2</p> <p>Minnesota 92</p> <p>North Dakota 1</p> <p>South Dakota 1</p> <p>Wisconsin 5</p> <p>MINNESOTA COUNTIES:</p> <p>Anoka 1</p> <p>Big Stone 2</p> <p>Blue Earth 2</p> <p>Brown 1</p> <p>Carlton 1</p> <p>Carver 1</p> <p>Cottonwood 1</p> <p>Crow Wing 2</p> <p>Dakota 1</p> <p>Douglas 1</p> <p>Faribault 1</p> <p>Goodhue 1</p> <p>Hennepin 25</p> <p>Itasca 2</p> <p>Le Sueur 3</p>	<p>Lincoln 7</p> <p>Martin 2</p> <p>McLeod 1</p> <p>Meeker 1</p> <p>Murray 1</p> <p>Norman 2</p> <p>Olmsted 1</p> <p>Ramsey 8</p> <p>Redwood 2</p> <p>Renville 1</p> <p>Rice 2</p> <p>Rock 1</p> <p>St. Louis 5</p> <p>Sibley 1</p> <p>Steele 1</p> <p>Swift 1</p> <p>Todd 1</p> <p>Wabasha 4</p> <p>Waseca 1</p> <p>Washington 1</p> <p>Winona 1</p> <p>Wright 1</p> <p>Yellow Medicine 1</p>
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Instruction.—Altho the College was somewhat handicapped because of an undermanned faculty, the usual amount of instruction was given. No notable changes in the curriculum were made, but the first-year pharmaceutical laboratory work was somewhat increased and strengthened. The work in dispensing was for the first time conducted in the new dispensing laboratory, but the laboratory is already too small for the classes. It is quite essential that work-tables be added to fill the capacity

of the room. Work room can thus be provided for only eight additional students.

Among those outside of the faculty who gave lectures to the student-body were the following: Mr. E. A. Tupper on "Pharmacy Laws"; Mr. Winthrop G. Noyes on "Starting in Business"; Mr. F. A. Upsher Smith on "Some New Practical Hints for Pharmacists." The students visited two local wholesale drug houses and a drug mill, in each of which competent guides and members of the faculty gave practical demonstrations and instruction. A number of botanical trips were made and the usual field instruction was given. The entire student body also enjoyed the advantage of attendance upon the program, extending over a full day, of the Scientific Section of the Minnesota State Pharmaceutical Association at St. Paul in February. A large number of the members of the upper class also attended the convention of the National Association of Retail Druggists held in Minneapolis, and the four meetings of the Northwestern Branch of the American Pharmaceutical Association.

Faculty changes.—No faculty changes or additions were made because no suitable men could be found, despite diligent search, for the money available.

Free dispensary drug room.—The pharmacy of the University Out-Patient Department dispensed a total of 19,997 prescriptions as against 18,797 the year before. As usual, practically all of these prescriptions were dispensed by senior pharmacists under direction and supervision.

Outside activities.—Members of the faculty of the College of Pharmacy gave thirty-two addresses and papers before scientific bodies and other audiences, locally and in various parts of the country; continued participation in the work of preparing standards for a number of National Formulary drugs; exhibited plants from the medicinal plant garden and representative products from the pharmaceutical laboratories at four pharmacists' conventions; formulated and conducted the program of the Scientific Section of the State Pharmaceutical Association; presided at the annual meeting of the American Conference of Pharmaceutical Faculties and at joint meetings of this body and the National Association of Boards of Pharmacy and the American Pharmaceutical Association; and directed and participated in much important and for the greater part unavoidable association and committee work, etc.

Important offices held by faculty members.—The secretaryship of the Minnesota State Pharmaceutical Association and of the Northwestern Branch of the American Pharmaceutical Association, membership in the Council of the American Pharmaceutical Association, and in the Committee on Publication, American Pharmaceutical Association, (for functions of this committee, see last year's report) and in National Formulary Revision Committee; the presidency of the American Conference of Pharmaceutical Faculties; the presidency-elect of the American Pharmaceutical Association; the vice-presidency of the Minnesota Academy of Sciences.

Departmental library.—While the classes have done some work in the library, the library was not as extensively used as would have been pos-

sible if a library assistant had been available. It is hoped that a library assistant can soon be provided.

Higher educational standards.—The entrance requirements, beginning with 1915-16, will be high-school training or its equivalent. The College is now, therefore, of full collegiate rank, except that three or four sub-collegiate students will remain for another year or until they graduate. Beginning with next year the minimum course is to extend over three full University years. No college of Pharmacy now ranks higher so far as entrance and graduation requirements are concerned.

Respectfully submitted,

FREDERICK J. WULLING, *Dean*

THE SCHOOL OF CHEMISTRY

To the President of the University:

SIR: Herewith is submitted my report for the present year.

Comparatively few changes have been made since my last report to you. The following brief outline will cover the more important items:

Building and equipment.—Unfortunately the appropriation made by the last legislature was not made available for completing any work on the building proper, although considerable work of imperative nature is yet to be done. As indicated in my last report, the new laboratory could not be completely equipped on account of lack of funds. Work, therefore, had to be stopped until the appropriation made by the last legislature became available, July 31, 1915. Since that time work has been resumed and the laboratories, lecture, and recitation rooms are being completed as rapidly as possible. In a few weeks all of the lecture and recitation rooms will be finished. Work on the laboratories is still in progress and will be completed as rapidly as funds will permit.

Students.—There has been a material increase in the number of students in the School of Chemistry during the last year. This is doubtless due to the greater demand for trained chemists as a result of new industrial conditions. There has also been an increase in the number of students taking chemistry from other colleges so that the classes in chemistry are considerably larger than they have ever been before.

Didactic work.—I am glad to report that the work done in chemistry is better on the whole than it has been for some time. This is partly due to the fact that the laboratories are better equipped than they have been in the past and partly to the fact that the number of students per instructor has been somewhat reduced by an increase in the number of instructors.

Faculty.—The School of Chemistry has been unfortunate in losing the services of Mr. F. C. Frary and Mr. Earl Pettijohn. Both men are exceptional chemists. It will be extremely difficult to find an industrial chemist with the reputation and ability of Mr. Frary to take his place, especially at the present time when chemists are deserting the teaching profession to take up industrial work. On the other hand, we have been fortunate in obtaining the services of Mr. H. L. Ward and Mr. F. H. MacDougall to relieve the pressure in General and Qualitative Chemistry.

Research work.—During the last year the following subjects have been under investigation, several papers having been published since my last report to you:

1. The phase rule, one monograph published since last report, and a second in the hands of the publisher.
2. The relation between the concentration and the colligative properties of solutions.

3. The sulphur compounds in illuminating gas.
4. The terpenes (continued), two papers finished during the year.
5. The reduction of gold from the auric to the aurous condition.
6. Catalysis, the action of chloral on the polycyclic hydrocarbons in the presence of aluminum chloride: first part published during the year; part II under way.
7. Veratrine and some of its derivatives: part II published.
8. Relationship between the color and the constitution of the azo dyes.
9. Application of the Bunsen ice calorimeter principle to thermo-chemical work at various temperatures.
10. The process of imbibition or swelling with application to the swelling of rubber.
11. Vapor pressures of absolute alcohol and water mixtures.
12. Vapor pressure of certain salt hydrates.
13. The theory of ideal solutions.
14. Notes on the determination of aluminum. Published.
15. Colorimetric method for the determining of phosphorus.
16. The chemistry of the rare earths.
17. The corrosion of iron.
18. The organic compounds of titanium tetrachloride.
19. Equilibria in solutions containing alcohols, salts and water.
20. The alloys of alkaline earth metals.
21. A chemical study of the clays of Minnesota.
22. The chemistry of the oils.
23. The Reimer-Tiemann reaction.
24. The action of chloroform on potassium hydroxide.
25. Determination of benzene vapors in illuminating gas.
26. The reducing power of photographic developers.
27. Equilibria in systems containing ketones, salts, and water.
28. A method for determining acetone in the presence of methyl alcohol.

Respectfully submitted,

GEORGE B. FRANKFORTER, *Dean*

THE COLLEGE OF EDUCATION

To the President of the University:

SIR: I herewith submit my report as Secretary of the College of Education for the year ending July 31, 1915.

REGISTRATION

The College of Education registers: (1) students who have completed at least the freshman and sophomore years of the College of Science, Literature, and the Arts, or some other college at the University of Minnesota or elsewhere; (2) graduates of the advanced course of approved normal schools, to whom it grants sixty credits of advanced standing; (3) graduate students; (4) unclassified students, chiefly teachers who are engaged in service and who do not yet possess a bachelor's degree.

At the annual commencement, June, 1915, 35 students were graduated from the College of Education. Three students received the degree of Master of Arts in Education. The total registration for the year amounted to 105.

The following shows the registration for the years 1913-1914 and 1914-1915.

TABLE I. REGISTRATION IN THE COLLEGE OF EDUCATION

	1913-1914	1914-1915
Juniors.....	27	30
Seniors.....	55	41
Graduate Students.....	4	14
Unclassified.....	25	20
Totals.....	111	105

Registration according to courses.—The total number of registrations in all courses amounted to 836, distributed as follows: History of Education, 212; Secondary Education, 57; Principles of Teaching, 32; Principles and Organization of Secondary Education, 107; Principles and Organization of Elementary Teaching, 13; School Sanitation, 64; School Supervision, 26; Rural Education, 14; Religious Education, 10; Industrial Education, 19; Practice Teaching, 128; Philosophy of Education, 27; Classroom Management, 42; Scientific Method in Education, 7; Adolescent Mind, 14; Current Problems in Elementary Teaching, 5; Technique of Reading, 4; Public School Music, 16; Principles of Teaching to special class of teachers at the Seward School, 21; Seminar courses, 18.

The total registration in all classes in Education in the Summer Session of 1915 amounted to 257.

Registration—Sources of enrollment.—Students registered in the College of Education come chiefly from the following sources: (1) from colleges within the University of Minnesota; (2) from colleges outside the University of Minnesota; (3) from normal schools; (4) from theological schools. Table II shows the students classified on the basis of these types of institutions.

TABLE II. INSTITUTIONS FROM WHICH COLLEGE OF EDUCATION STUDENTS CAME, 1914-1915

1. Colleges of the University of Minnesota	
Science, Literature, and the Arts.....	23
Agriculture	1
	24
2. Colleges outside the University of Minnesota	
Hamline	6
Carleton	2
Bethel College.....	1
Dakota Wesleyan University.....	1
Ripon College.....	1
Ames, Iowa.....	1
St. Olaf College.....	1
	13
3. State Normal Schools in Minnesota	
Mankato	17
St. Cloud	10
Winona	5
Moorhead	5
Duluth	5
	42
4. Graduates of Normal Schools outside of Minnesota.....	7
5. Foreign Schools (Holland and Bombay).....	2
6. St. Paul Normal School.....	4
7. High Schools (unclassified).....	13
	26

Professional training for students in other colleges.—The College furnishes instruction and training for an increasing number of students registered in other colleges in the University of Minnesota and in the Extension Division.

The following table shows the number of such students receiving instruction in this College during the past year.

TABLE III. NUMBER OF STUDENTS TO WHOM THE COLLEGE FURNISHED PROFESSIONAL TRAINING, 1914-1915

Extension Division, including correspondence courses.....	12
Department of Home Economics.....	44
College of Science, Literature, and the Arts.....	593
College of Education.....	140
Graduate School.....	28
Special, Teachers of the Seward School.....	21
	748

Practice teaching.—Last year there were enrolled in Practice Teaching 128 people, 54 of whom did their practice work in the city schools. These were assigned among the five city high schools and among the seventh and eighth grades of eleven grade schools. The agreement under which the University is permitted to assign these students to practice teaching in the city schools is one of reciprocal benefit. The University grants to the city school teachers as many free scholarships in regular University enrollment as there have been practice teachers assigned in the city schools. When this plan of operation was begun a Joint Committee from the city schools and the University compiled a pamphlet containing recommendations concerning practice teaching.

Appointment Bureau.—Seventy-seven high schools in Minnesota and twelve high schools in North Dakota, South Dakota, Iowa, Wisconsin,

Montana, and Kansas were supplied with teachers during the past year. Of the thirty-five graduates of the College of Education twenty-five have secured positions as follows: superintendents, five; graded school principals, three; high school principal, one; science work, two; normal training departments, three; manual training, one; high school teachers, nine; grade teachers, one.

School visitation.—The policy of school visitation by members of the College of Education pursued in previous years was continued throughout the year past. Owing to the absence of the Dean, who has always done a large amount of this work, and to the absorption of other members of the faculty in administrative duties, there was a considerable falling off in this field of activity. Twenty-four schools and thirty-two towns were visited. Forty-three addresses were delivered before audiences varying in character and composition all the way from those composed of school pupils to teachers' state and sectional meetings and commencement addresses. The estimated aggregate attendance at the addresses amounted to 7,870.

Superintendents' and Principals' Short Course.—The College of Education, in conjunction with the State Department of Education, offered at the University during the spring meeting of the Superintendents' section of the Minnesota Educational Association, March 31 to April 3, a second annual short course for city and county superintendents, and high-school and graded-school principals. The total registration for the Short Course in 1915 was 427, as against 227 in 1914. The average attendance at the meetings was 225, distributed as follows: Wednesday evening, March 31, 139; Thursday morning, April 1, 240; Friday morning, April 2, 325; Saturday morning, April 3, 196; making a total attendance of 900.

The general topic of the course was "More Efficient Management of the Public Schools." The lectures were given by C. H. Judd, Director of the School of Education, University of Chicago; W. A. Jessup, Dean of the College of Education, State University of Iowa; G. D. Strayer, Teachers' College, Columbia University; F. E. Spaulding, Superintendent of Schools, Minneapolis. Any doubt which had existed as to the value of the Short Course and the desirability of making it a permanent feature of the College of Education work has been removed by the success of the two years of its existence. The superintendents saw fit at a business meeting of the section to pass a formal resolution of appreciation and endorsement to the effect that the Short Course be made a permanent feature of the annual spring meetings.

THE YEAR'S WORK

The work of the College is divided between the College proper and the University High School. Appended to the report of the Secretary is the report of the University High School prepared by the Principal, Mr. Raymond A. Kent. Owing to the absence of Dean George F. James during the past year, the duties of Acting-Chairman of the College were

assumed by the President of the University. The year was characterized by many important changes in organization, course of study, and teaching staff.

Changes in organization.—The most important changes in organization include the reorganization of the general faculty of the College of Education; the organization of (1) an executive faculty of the College, (2) a high school council, (3) a teachers' training conference, and (4) a sub-committee on teachers' courses; and the affiliation with the Minneapolis schools for the purposes of practice teaching. The only one of these bodies which is of sufficient general interest to call for description here is the Committee on Teachers' Courses. This committee was organized in accordance with the recommendation of the High School Council to the President that an executive committee for each department concerned with the giving of teachers' or special methods courses be established, this committee to act on matters pertaining: (1) to the establishment of such courses; (2) to the selection of the individual to give such courses; (3) the decision as to the satisfactoriness of such courses. This committee is composed as follows: (1) a representative of the College of Education; (2) the Principal of the University High School; (3) the Dean of the College (other than the College of Education) concerned; (4) the Head of the Department concerned; (5) the President of the University, Ex-officio Chairman.

Reorganization of the Appointments Bureau.—An important feature of the year's work was the reorganization under Mr. Rankin of the Appointments Bureau. Upon the basis of a careful study of the systems employed at other universities, Mr. Rankin put the work of the University Bureau upon an entirely new basis, the benefit of which has already been recognized both in and outside the College.

CHANGES IN COURSE OF STUDY

Prescribed course of study adopted.—Up to the present year the only courses prescribed for students looking forward to the teaching profession were courses in Psychology and in the History of Education. In addition to these courses, students were required to elect sufficient additional professional courses to make a total of not less than fifteen credits. This freedom of election, together with the small amount of training required, resulted in many students going out from the University with its certificate entitling them to teach, who had never had many of the most fundamental courses offered by the College. A realization of the disastrous results of this policy led the College of Education to adopt a prescribed course of study to be required of all undergraduate candidates for the University teachers' certificate and for the degree of Bachelor of Arts in Education, the same to become effective in September, 1915. This course was also adopted by the College of Science, Literature, and the Arts to be applied to its students with the exception of honor students.

a. General Psychology.....	6 credits
b. Prescribed work in Education	
Practice Teaching.....	3 credits
Teachers' courses in two subjects, together carrying	3 credits
Technique of Teaching.....	3 credits
History of Education.....	3 credits
Social Aspects of Education.....	3 credits

Fifth year of professional training.—A plan has been adopted whereby, beginning with the fall of 1915, opportunity will be offered to a limited number of students to combine a fifth year of additional professional study at the University with teaching in the Minneapolis Schools. Briefly stated, the plan provides for employing in the Minneapolis Schools a limited number of graduates of the University, to be known as teaching assistants, who will devote their mornings to work in the high schools and their afternoons to additional professional study at the University. While thus employed they will receive from the Minneapolis Schools compensation proportionate to the amount of time devoted to teaching; \$300 for the first year, \$400 for the second year provided they continue as teaching assistants. A fuller statement of the plan will be found in the College of Education Bulletin for 1915-16, pages 15 and 16.

New courses.—Owing to the important additions to the faculty to be noted later, arrangements were made for establishing in the College of Education entirely new phases of work in school administration, educational psychology, statistical methods of dealing with school problems, and educational diagnosis. Other important changes in the curriculum were the organization of a department of high-school rural training under the direction of the Dean, assisted by Miss Mabel Carney of the State Department of Education and a number of teachers in actual service; the installation of a course for training high-school teacher-librarians, the reorganization of the work in manual training, the establishment of several courses in special methods of teaching high-school subjects, including English and Rhetoric, and Swedish. The placing of the teachers' courses in English and in Physics in the Department of Education with the consent of the Departments in the College of Science, Literature, and the Arts, marked a distinct advance in organization and a recognition of the self-evident fact that these methods courses are distinctly professional courses and belong within the Department of Education.

Courses for teachers in service.—A survey was made of the Minneapolis Schools with the assistance of Superintendent Spaulding to determine the courses most desired by teachers in service. A report on this survey was presented to the faculty of the College of Science, Literature, and the Arts, and the College of Education. Heretofore a large number of courses listed as open to teachers had been placed at hours which made it impossible for teachers to attend. The result of this survey was that a greater effort was made to offer courses meeting the needs of teachers and to place them at a time when they were in reality available.

CHANGES IN STAFF

The most important change in personnel of the College of Education was the appointment by the Board of Regents of Professor L. D. Coffman, of the University of Illinois, as Dean of the College of Education, to assume his duties at the opening of the year 1915-16. This appointment was necessitated by the resignation of Dean George F. James to accept a position as head of the Department of Education at the University of Nevada. Mr. Coffman's appointment will result in establishing in the College a strong Department of School Administration, which was pointed out in my report of last year as being one of the greatest needs from the standpoint of the curricula. The appointment of Professor M. E. Haggerty to take charge of the work in Educational Psychology marks the establishment of a new department in the College of Education and is of great significance from many standpoints. Other important additions to the staff were Miss Mabel Carney, Lecturer in Rural Training, T. P. Giddings, Lecturer in Public School Music, Mr. R. L. Southworth in the Department of Manual Training, Mr. J. W. Norman, in the Department of Education, Mr. W. D. Reeve, Instructor in High School Methods of Mathematics, and Miss R. B. Inglis, Instructor in High School Methods of English, Mr. Judson R. Towne, Lecturer in High School Methods of Physics, and the following lecturers in Methods of Rural Training Departments: Misses Alberta Ackerman, May H. Dills, and C. L. Osborn.

PUBLICATIONS

A bulletin on *Rural Teachers' Training Departments in Minnesota High Schools*, by Mr. B. F. Pittenger, Instructor in Education, appeared as Number 2 in the University of Minnesota *Current Problems* series.

During the past year the College inaugurated a series of bulletins dealing with methods of teaching high-school subjects. These bulletins are to be prepared by those having in charge the giving of special methods courses and are designed primarily to meet the needs of our graduates just entering the teaching service. At the time of writing this report the following have appeared: *Bulletin for Teachers of Latin* by Professor J. B. Pike, of the Department of Latin; *Bulletin for Teachers of History* by Professor A. C. Krey, of the Department of History. Other bulletins in preparation will deal with methods of teaching high-school German and mathematics. A bulletin for high-school teachers of German is to be prepared by Professor Carl Schlenker, of the Department of German, and one for high-school teachers of mathematics by W. D. Reeve, Instructor in Mathematics, University High School.

NEEDS OF THE COLLEGE

Miscellaneous needs.—The present report follows so closely upon the appearance of the report of 1913-1914, that it seems unnecessary to repeat

what has been so recently printed. (See *President's Report, 1913-14, 120-124.*) In that report attention was called to the need of a department for training commercial teachers, the development of a department of high-school normal training, the need of practice-teaching opportunities in other than Minneapolis Schools, better courses in methods of teaching high-school subjects and the placing of these courses in the hands of instructors actually teaching in the University High School, and the addition to the college staff of a professor of secondary education and professors of a number of other professional branches.

A greatly increased budget imperative.—The statement made last year still holds, that the budget of the College of Education, if compared with other colleges, suggests little more than a poorly supported department, and that a greatly increased budget is absolutely imperative if the College is to fulfil its mission to the state and to its schools.

Respectfully submitted,

FLETCHER H. SWIFT, *Secretary*

UNIVERSITY HIGH SCHOOL

To the President of the University:

SIR: At the request of the Secretary of the College of Education I present herewith a very brief report on the University High School for the year 1914-15.

Enrollment.—The total enrollment was one hundred and seventeen; seventy-eight boys and thirty-nine girls. The enrollment by subjects was as follows:

English			
Freshman	18		
Sophomore	10		
Junior	16		
Senior	17		
Current literature (½).....	15	76	
Latin			
First year	12		
Caesar	4		
Virgil	2	18	
German			
First year	13		
Second year	7		
Third year	7		
Beginning	7	34	
History			
Ancient	15		
Modern	9		
United States (½).....	13		
Industrial of United States (½).....	24	61	
Mathematics			
Elementary algebra	16		
Plane geometry	11		
Higher algebra (½).....	15		
Solid geometry (½).....	16	58	
Science, natural			
Chemistry	31		
Biology (½).....	22		
Botany	5		
Physiology	23		
Physiography	34	115	

Science, social		
Elementary economics	14	14
Manual training	8	8
Domestic economy		
Cooking	11	
Sewing (½).....	11	
Drawing and design (½).....	9	31

Instruction.—This was the first year that the school was operated in its new quarters in the College of Education building. The instructional force was increased from three persons on full time to five persons on full time and three persons on part time. Ample room and fairly adequate laboratory equipment is available for teaching physics, chemistry, biological science, domestic economy, and, to a limited extent, manual training. The course in botany was taught in the greenhouse of the University by an instructor from the Botany Department of the College of Science, Literature, and the Arts. This instructor has already had marked success in teaching high-school botany and the University High School considered itself fortunate in being able to make this arrangement.

The first six weeks of the second semester Professor Schlenker, head of the Department of German in the College of Science, Literature, and the Arts, taught a class in beginning German. The entire second semester Professor Krey, of the Department of History of the College of Science, Literature, and the Arts, taught a regular class in modern history. The University High School welcomes this voluntary showing of coöperation on the part of the departments in the University which are so keenly interested in the discovery and application of proper methods of instruction in the high schools.

Student body.—Statistics gathered about January 1, 1915, indicate four girls and twenty boys earning outside of school a total of \$320 per month, the four girls earning an average of \$18.75 each per month compared with the average of \$16 each for the twenty-four.

A feature of the administration of the school for the year was the election by the student body of three representatives from among their own number to sit with the faculty in the discussion of matters of direct personal relation to the students. Other student activities were athletics, literary work, the presentation of a minstrel program in which thirty boys took part, a glee club, a senior class play, and the publication at the end of the year of the school's first annual.

The members of the school for the most part gain no acquaintance with each other except by reason of school contact here. The *esprit de corps* of the student body has been, therefore, a matter of creation and rather slow growth after the organization of the school itself. It has become healthy and vigorous enough to result in greatly diminishing certain objectionable practices on the part of a few of the students.

Needs.—On account of the fact that supervision of practice teachers and practice teaching demands a large part of the time of each instructor, the school needs a larger instructional force. It is now deprived of offering any courses in commercial study. The science department is

much overcrowded. The manual training instructor is on part time only. There is only a minimum of equipment in the laboratories except the kitchen. The school needs, therefore, a larger budget to enable it to maintain minimum standards of high-school work. The greatest single need outside of increased finances is physical training for both the boys and the girls. Such opportunity is at present practically denied them.

Respectfully submitted,

RAYMOND A. KENT, *Principal*

THE GRADUATE SCHOOL

To the President of the University:

SIR: I submit herewith my annual report as Dean of the Graduate School. This report covers the year August 1, 1914, to July 31, 1915.

Registration.—The following statistics will show the registration in the Graduate School for the year and its character and distribution.

REGISTRATION 1910-1915

Year	Graduate study	Master	Doctor	Men	Women	Totals
1910	43	67	18	78	50	127
1911	68	60	18	96	50	146
1912	54	84	21	101	58	159
1913	52	103	28	114	69	183
1914	10	123	42	118	57	175
1915	22	159	56	160	77	237

GRADUATE STUDENTS DOING FULL OR PART TIME WORK

	Full time	Part time	Total
Men	83	77	160
Women	29	48	77
Total	112	125	237

DISTRIBUTION ACCORDING TO YEARS OF GRADUATE WORK DONE

First year	Second year	Third year	Fourth year and over
132	62	32	11

MEMBERS OF THE STAFF REGISTERED IN THE GRADUATE SCHOOL

	Men	Women	Total
Instructors doing graduate work*	35	2	37
Graduate students serving as assistants....	26	8	34
Graduate students holding scholarships....	16	14	30
Teaching fellows	5	..	5
Total			106

* Seven Assistant Professors.

GRADUATE STUDENTS MAJORING IN DIFFERENT DEPARTMENTS

DEPARTMENT	Men	Women	Total
Agricultural Chemistry	6	2	8
Agricultural Education	2		2
Agronomy	2		2
Anatomy	12	2	14
Animal Biology	3	1	4
Animal Husbandry	2		2
Astronomy	1		1
Botany	4	1	5
Chemistry	18	4	22
Civil Engineering	2		2
Comparative Philology	1	1	2
Economics	12	2	14
Education	14	4	18
Electrical Engineering	2		2
English	14	22	36
Entomology	3		3
Farm Management	4		4
Geology	11		11
German	3	7	10
History	6	6	12
Home Economics		5	5
Horticulture	1		1
Latin	1	3	4
Mathematics	4	3	7
Pathology	1		1
Philosophy	3	1	4
Physics	1		1
Physiology	4	1	5
Plant Pathology	3		3
Political Science	5		5
Psychology	1		1
Rhetoric	1	2	3
Romance	2	3	5
Scandinavian	1	2	3
Sociology and Anthropology	2	4	6
Soils	8		8
Zoology		1	1
Total	160	77	237

EDUCATIONAL INSTITUTIONS REPRESENTED IN GRADUATE SCHOOL*

Ames	1	Indiana	1
Amherst	1	Iowa	2
Arkansas	1	Iowa State Teachers' College	2
Augustana	2	Kansas	1
Beloit College	1	Kansas Agricultural College	1
Brown	1	Knox	1
Bethel College	1	Lawrence	2
Bowdoin	1	Lombard	1
Bombay, India	2	Macalester	3
Carleton	2	Michigan	2
Catholic University of Wash. D.C.	1	Minnesota	119
Chicago	2	Montana	1
Clark	1	Missouri	2
Central University of Iowa	1	Montreal	1
Colorado	1	Muhlenberg College, Pennsylvania	1
Columbia	4	Nashville	3
Concordia	2	Nebaska	8
Cornell	1	North Dakota	2
Darmstadt, Germany	1	Northwestern	4
Drury College	1	Oberlin	2
Gustavus Adolphus	2	Ohio	2
Geneva	1	Ohio Wesleyan	1
Hamline	11	Ottawa	1
Highland College	1	Otterbein	1
Illinois	2	Pennsylvania	1

Pennsylvania State College.....	2	Wartburg	2
Ramona	1	Washington State College.....	2
Radcliffe	1	Wisconsin	8
St. Catherine's.....	1	Wittenberg	2
St. Clara College.....	1	Wellesley	3
St. Olaf's	4	Yale	1
St. Petersburg	1	Yankton	1
South Dakota	1		
Smith	1	Total colleges represented.....	71
Stanford	2	Minnesota registration.....	119
Tennessee	1	Total registration from other col-	
Texas	1	leges	128
Utah	1	Total registration.....	237
Vienna	1		

* In cases where the rating of the college is low the students' entry blanks show extra undergraduate or summer school work here or at other institutions or tested qualifications in their major work.

MASTER'S DEGREES GRANTED IN 1915 BY DEPARTMENTS

DEPARTMENT	MINNESOTA GRADUATES		OTHER COLLEGES		TOTALS		Total
	Men	Women	Men	Women	Men	Women	
Agricultural Chemistry..	2	..	..	..	2	..	2
Anatomy .....	..	..	2	..	2	..	2
Animal Biology	1	..	..	..	1	..	1
Animal Husbandry .....	..	..	2	..	2	..	2
Botany .....	..	..	1	..	1	..	1
Chemistry	1	1	..	..	1	1	2
Comparative Philology.....	..	1	1	..	1	1	2
Economics	3	..	2	..	5	..	5
Education .....	..	1	2	..	2	1	3
English .....	..	3	1	2	1	5	6
Entomology	1	..	..	..	1	..	1
Farm Management.....	1	..	..	..	1	..	1
Forestry .....	..	..	1	..	1	..	1
Geology	1	..	2	..	3	..	3
German .....	..	2	..	..	..	2	2
History	2	2	..	1	2	3	5
Home Economics.....	..	..	..	1	..	1	1
Latin .....	..	1	..	1	..	2	2
Mathematics .....	..	1	..	..	..	1	1
Pathology	1	..	..	..	1	..	1
Plant Pathology	3	..	..	..	3	..	3
Political Science.....	1	..	1	..	2	..	2
Scandinavian .....	..	..	..	1	..	1	1
Sociology .....	..	..	..	1	..	1	1
Soils	1	..	3	..	4	..	4
Totals.....	18	12	19	7	37	19	56

Doctors of Philosophy

William Fitch Allen, B.A. '00, M.A. '02, Leland Stanford. Major, Anatomy; Minor, Zoology; Thesis: *The Spinal Cord of Bdellostoma*.

Edwin Baumgartner, B.A. '10, M.A. '11, Kansas. Major, Anatomy; Minor, Zoology; Thesis: *Development of the Liver, Gall Bladder and Hepatic Ducts in Ambystoma Punctatum*.

Morris Joslin Blish, B.S. '12, M.A. '13, Nebraska. Major, Agricultural Chemistry; Minor, Soils; Thesis: *The Chemical Constitution of Wheat Proteins and Their Relation to Baking "Strength" in Flour*.

Paul Edward Kretzmann, Concordia College '02, M.A. '13, Minnesota. Major, English; Minor, Philology; Thesis: *The Liturgical Element in the Earliest Forms of the Medieval Drama with Special Reference to the English and German Plays.*

Sterling Nelson Temple, Ph.B. '05, M.A. '06, Hamline. Major, Chemistry; Minor, Physics; Thesis: *Equilibria in Systems of the Higher Alcohols, Water, and Salts.*

Shevlin Fellowships 1914-15

Science, Literature, and the Arts: Frances Helen Relf, B.A. '11, M.A. '12, Minnesota.

Agriculture: Frank J. Piemeisel, B.S. in Agr. '14, Minnesota.

Medicine: William Raymond Shannon, B.S. '14, Minnesota.

Chemistry: Vaman Ramchandra Kokatnur, '12, Bombay, India, '14, Minnesota.

The above statistics show an increase in the registration of the Graduate School from 175 in 1913-14 to 237 in 1914-15, or an increase of 35.4 per cent. The registration from colleges other than those in the University of Minnesota numbered 128, or 54 per cent of the total registration. This is exactly the same ratio that was maintained in the registration of 1913-14. This increase in the number of graduate students is gratifying in many ways. The fact should not be overlooked, however, that the increase has been almost wholly in part-time students. This means that a larger number of teachers and residents of the Twin Cities and of our own staff are making use of further opportunities to do advanced work. Of the 237 students, 106, or 44 per cent, were in some way connected with our own staff as instructors, assistants, scholars, or teaching fellows. Leaving out those definitely called to university appointments for teaching purposes, i.e., 30 instructors and 7 assistant professors, it leaves 23 per cent, or less than one-fourth of our registration in the group of assistants, scholars, and fellows. May I point out, as I did last year, that there is a serious disadvantage from the University standpoint, in the fact that 15 per cent of the registration in the Graduate School hold the rank of instructor or assistant professor in the University. This means that our standards for these ranks for appointment have not yet arisen to the point where we ask that before taking a full-time appointment, the instructor should have completed his preparation for his life work, at least, so far as courses and registration in the Graduate School is concerned. It is, of course, encouraging that so long as our own standards for appointments include this class, that we are appointing men who are alive to the necessity of further preparation and who have a desire to make use of the opportunities at hand.

Research and Publication.—Two phases of the Graduate School work are not covered by the above statistics. They are the Research Publications and the work carried on as a result of grants from the research funds. Since my last report we have published in the Research Publications of the University the following issues. I have given also the size

of the edition and the total cost of publication for each number. In the future the standard size for an edition will be one thousand copies. Of these fifty are placed at the disposal of the author, and about six hundred are absorbed by our exchange list. Copies to periodicals for reviewing purposes consume a number more, and the rest are held for sale. In general it is our plan to set a minimum price of 25 cents for any publication, and above that to regulate the price of issues by the cost of production. The sale and distribution of these monographs is handled through the librarian. Some of the following publications were included in my last report as *in press*. They are listed here in order to cover completely the publishing activity of the past year.

Studies in the Social Sciences

	Edition	Cost
2. Matthias Nordberg Orfield, Federal Land Grants to the States, with Special Reference to Minnesota.....	1600	\$1,100.80
3. Edward Van Dyke Robinson, Early Economic Conditions and the Development of Agriculture in Minnesota.....	3100	3,854.26
4. L. D. H. Weld and others, Studies in Marketing of Farm Products	1500	382.55
5. Benjamin Palmer, Swamp Land Drainage, with Special Reference to Minnesota.....	1000	434.38

Studies in Engineering

1. G. A. Maney, Secondary Stresses.....	800	122.52
2. Charles F. Shoop, An Investigation of the Concrete Road-Making Properties of Minnesota Stone and Gravel.....	900	219.41
3. F. R. McMillan, Shrinkage and Time Effects on Reinforced Concrete	900	201.47

Studies in Language and Literature

1. Esther L. Swenson and Hardin Craig, An Inquiry into the Composition and Structure of Ludus Coventriae.....	700	318.64
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Current Problems

2. Benjamin F. Pittenger, Rural Teachers' Training Departments in Minnesota High Schools.....	1200	75.48
3. Gerhard A. Gesell, Minnesota Public Utility Rates.....	3000	495.82
4. L. D. H. Weld, Social and Economic Survey of a Minnesota Township in the Red River Valley.....	2000	293.58
5. Gustav P. Warber, Social and Economic Survey of a Community in Northeastern Minnesota.....	1500	258.68

I append a list of the research grants and the use to which they have been put:

Clarence M. Jackson and Thomas G. Lee. \$500 for assistant in research in Anatomy.

William H. Emmons. \$400 for assistant in research in Geology. \$170 reverted.

Elias P. Lyon. \$400 for assistant in research.

Albert B. White. \$200 for assistant in research in History.

- Hal Downey. \$250 for assistant in research in Animal Biology.
- Herbert Woodrow. \$265 for assistant in research in Psychology.
- Frederic F. Clements. \$820 for investigation in reclamation of bogs.
- Arthur D. Hirschfelder. \$200 for materials and assistant in study of infections. \$109.05 reverted.
- Richard E. Scammon. \$250 for assistant in research in Anatomy.
- Anthony Zeleny. \$500 for assistant in research in Physics.
- Wallace Notestein. \$400 for photographic editions of material in English Parliament. \$200 reverted.
- Franklin R. McMillan. \$500 for investigations in concrete.
- Colbert Searles. \$600 for books on 17th century French literature.
- Hardin Craig. \$350 for assistant in research in English.
- James T. Gerould. \$500 for large sets of books. \$388.75 reverted.
- George N. Northrop. \$250 for photographs of 17th century manuscript. \$121.83 reverted.
- John F. McClendon. \$60 for apparatus for Physiological research.
- Edgar D. Brown. \$50 for animals for investigation of effects of drugs. \$27.60 reverted.
- Thomas B. Hartzell. \$100 for investigation in dental infection.
- J. Frank Corbett. \$150 for assistant in research in Surgery.
- C. H. Shoop. \$150 for investigations in concrete roads.
- George B. Frankforter. \$50 for material for investigations in Chemistry.
- Alois F. Kovarik. \$200 for materials for investigations in Physics.
- S. L. Hoyt. \$450 for scientific apparatus for investigations in Metallurgy.
- G. C. Priester. \$30 for assistant in investigations in reinforced concrete.
- Albert E. Jenks. \$200 for investigation into heredity as exhibited in skin pigmentation.
- Frederic W. Schlutz. \$150 for assistant in investigation of diseases of new born children.
- Dean Guy S. Ford. \$300 for Dean's reserve fund to take care of research fund requests under \$50.
- Everett W. Olmsted. \$500 for material for investigation in studies in prosody.
- John H. Gray and Lotus D. Coffman. \$825 for commercial survey of the City of Minneapolis.
- Dean John B. Johnston. \$100 for assistant in research in Anatomy.

It will be seen from the above list of grants, and especially from the publications in the Research Series, that the University of Minnesota is maintaining a very creditable productive output in the way of scholarship. For the coming year the Executive Faculty of the Graduate School has set aside \$4,000 to cover the cost of publications for the year 1915-16

with the understanding that any balance of the research funds will be applied to the same purpose if there is more. I am glad to say that there are several publications in press and others are being passed upon by the various committees.

The Library and the Summer Session.—Two matters that I mentioned in my last report as of vital importance to the development of graduate work, namely, the necessity of increasing the strength of our library, and sufficient funds to develop the summer session, are in a somewhat better condition than at the time of that report, but it still remains true that in its library facilities the University of Minnesota is distinctly behind other institutions of its academic rank and standing, and that the obligation is upon every one interested in its development to push forward the building up of a great collection of books. The Summer Session, with its more definite organization now and with slightly increased funds, promises to do better service to the teachers of the state, the undergraduate students, and those planning on working for advanced degrees during the summers; but we will not be doing our full duty in the matter until we have at our disposal a fund sufficient to keep here a larger number of our own people supplemented by a few strong teachers from the outside, thus making the summer session a more integral and continuous part of the academic year.

Accrediting.—The appointment last spring of a special Senate Committee on The Relation of the University to other Educational Institutions in the State has given me an opportunity to take up the matter of accrediting in the Graduate School the graduates of certain institutions which have been applying for some time for recognition, and which have been put off from time to time. I hope in my next report to be able to say that we have given a definite rating to each of the state colleges which has any claim upon our attention.

Employment bureau.—In other communications I have already mentioned the importance to the Graduate School of the development of an Employment Bureau here which shall aid our graduates and advanced students in finding openings for an academic career. With the present office force, I can undertake only in a modest way to push the interests of graduate students who are seeking appointments. I hope that the reorganization of the Committee on Appointments, with a working secretary giving his time under their general supervision to the matter, will be a solution of this problem, both of the Graduate School and of the undergraduate colleges.

Resignations and appointments.—It is a matter of regret that, as in the previous report, I have to chronicle the loss to the Graduate School that is involved when men like Professors E. V. Robinson, John Zeleny, and L. D. H. Weld find other institutions more attractive and advantageous places for their work. Their going is a loss to the departments of the colleges with which they were connected and a still more definite loss to the Graduate School, where they were doing such excellent work in training advanced students. It is a matter of congratulation, however,

that in the past year we have added permanently to our faculty such men as Professors Stoll, Todd, Coffman, and Lund, and that circumstances for the coming year allow us to add at least temporarily to our teaching strength men like Professor M. E. Haggerty, Edgar E. Robinson, and Professor Peterson.

Productive scholarship.—It is also a real gratification to call attention to the excellent work which is being produced by men on our faculty. I can not forbear mentioning in particular such work as that of Professor Firkins in his *Life of Emerson*; the bulletins put forth by Professors McMillan and Shoop in our own series; Professors White and Notestein's *Parallel Source Problems in English History*, which is much more than a text, inasmuch as the introductions embody much original work; Dr. Solon J. Buck's work with the State Historical Society; Professor Allin's studies in the field of Political Science; and the steady productive activity of the departments of Geology, Anatomy, and Physics in their teaching and graduate student body. In future reports I hope to be able to make this part of the Graduate School's record a matter of more prominence by listing works in progress and by indicating the work carried on in seminars and the special papers prepared in them, as well as a grouping of the graduate students taking degrees, with special reference to the instructors under whom they did their main work.

Graduate Medical work.—In the history of the Graduate School during the past year the most distinctive feature has been the development of graduate work in Medicine, due to the opportunity placed at our disposal by the resources of the Mayo Foundation and by the development of the plans initiated by our own Medical School. These are matters of such common knowledge that I shall not here expand upon their course or promise. As a matter of record, I incorporate here the resolution approved by the Regents, reorganizing the Graduate School Medical Committee. This resolution adopted first by the teaching faculty of the Graduate School modifies the constitution of the Graduate School, as given in my last report.

"A Committee composed of the President, Dean of the Medical School, and Dean of the Graduate School, is authorized to propose and put into effect with the Regents' approval, such a modification of the Graduate School Medical Committee as may be needed to direct and arrange the curriculum, staff, and budget of Graduate Medical work, in connection with the Mayo Foundation."

Semi-Centennial Publications Series.—In conclusion, I desire to mention one project which should receive early attention. In 1918 the University of Minnesota will celebrate its semi-centennial. It would be a most fitting part of such a celebration to issue in the name of the University a series of substantial and scholarly volumes to be grouped together as the Semi-Centennial Publications of the University of Minnesota. These might be published by the University on its own funds, or by the arrangement of a guarantee by the Alumni, I am sure that any standard publishing house would undertake their printing and circulation. It is

THE PRESIDENT'S REPORT

none too early to begin at once the planning of such a series and finding out what members of our faculty have undertakings of some compass and scholarly promise under way which they might bring to completion by 1918 for inclusion in the Semi-Centennial Series.

Respectfully submitted,

GUY STANTON FORD, *Dean*

REPORT OF THE DEAN OF WOMEN

To the President of the University:

SIR: The Dean of Women herewith submits the following report for the year 1914-15:

Registration of Women.—During this year there were registered in the University 1,702 women. The academic distribution is as follows:

Science, Literature, and the Arts.....	954
Education	72
Graduate	77
Agriculture	273
Medicine	10
Dentistry	5
Pharmacy	13
Nurses	55
Engineering	3
Total, regular session.....	1462
DURING THE SUMMER SESSION, 1914.....	240
Total	1702

The distribution as to residence during the regular session of 1914-15 is as follows:

At home	921
With friends or relatives.....	88
In private families	76
In lodging houses	170
In sorority houses	57
In dormitories	135
In Elizabeth Northrop Cottage.....	11
In Home Management House	4
Total	1462

Self-government.—The work of the self-government associations on both campuses is growing steadily more effective. The building up of the self-government idea has been a slow and difficult task, but the results are beginning to justify the effort expended. The executive boards of the self-government associations constitute groups to which can be referred the most varied matters, ranging from delicate questions of good taste and conduct, as they directly concern University women, to the organization of plans for relief and charity work. The Dean of Women wishes to express her sense of obligation to these groups, who have been un-faillingly helpful in their coöperation.

The student adviser system is now an established institution, by which upper-class women on both campuses look after the in-coming freshmen, not only during the days of registration, but during the whole term. By the weekly reports which the chairmen receive from their advisers, they are kept informed of what each advisee is doing, and are thus enabled to

put a check upon any who may be lax in the discharge of their duties. By the reception which the Dean of Women gives to the freshmen and their advisers at the opening of the year, and that given by the advisers to the freshmen in the spring, the two groups are brought into immediate and friendly association.

The response to the work of the House Council on the part of the sororities and dormitories has been gratifying. The rooming-houses, on account of their lack of organization, have been more difficult to reach. The observance of the three-evening social engagement regulation has been fairly well recognized. The effect of this rule has been practically to limit all dancing parties to Friday and Saturday evenings. The action of the Shevlin Committee of the Women's Self-Government Association, restricting the use of the hall for dancing parties to Friday and Saturday evenings, is in direct harmony with the recent ruling of the Senate Committee on Student Affairs. The significance of this student action is fully measured, only as it is recalled that three years ago, dances could be held in Shevlin Hall every evening in the week until midnight.

Sanford Hall.—Sanford Hall has had a year of marked prosperity under the administration of its director, Miss Helen F. Jackson. The hall has been able to accommodate only about one half of the students who have applied for admission during the year. This lack of accommodations points to the urgent need of the building of another wing. Through the attendance of Miss Paige, the resident nurse, an admirable record for health has been maintained. Through her prompt care of slight indispositions, serious cases of illness have been prevented.

Sororities.—The placing of pledge day at the end of the first semester has proved no more satisfactory than sophomore pledge day of the preceding year. There is no doubt that continuous rushing during the greater part of the first semester had a markedly bad effect on the scholarship of freshmen pledges. The Pan-Hellenic Association became so acutely alive to this result, that it passed the following resolution: "There shall be no initiation of freshmen students until the second semester, and then, only if they have passed in all hours of their previous semester's work." It is expected that this resolution will have a bracing effect on the scholarship of all sororities.

Coöperative cottages.—The experiment with the first coöperative house was so successful, that last summer the Alumnae of the University furnished a second one, the Charlotte Winchell Cottage, at a cost of about one thousand dollars. This house is somewhat larger than the Elizabeth Northrop Cottage, as it provides a home for fifteen students besides the chaperon and the housekeeper. It is hoped that these two cottages may be the beginning of a coöperative system. Such a system promises to help solve, to an encouraging degree, the housing problem. Students in these cottages secure a real home at a minimum cost. Residence, however, has not been restricted to needy students; a few women who have abundant resources to live anywhere on the campus, have been admitted, in order that the most democratic conditions may prevail. Undoubtedly,

the coöperative cottage promises to justify its establishment. In the first place, through the management of their own house, the girls practice many essential principles of home-making; through the intelligent enforcement of self-government rules, they grow in self control and responsibility; and through the close association with faculty women, they develop tact and poise in social intercourse.

Physical education.—The close coöperation between this office and that of the Director of Physical Education serves a double purpose; the health of the ambitious student is safeguarded, at the same time that it is made impossible for the irresponsible student to carry less than the minimum amount of work on the plea of poor health. There has been a steadily increasing interest in out-of-door sport and physical exercise of all kinds. The new gymnasium will undoubtedly develop this interest still further. In this highly stimulating climate, too much emphasis can not be put upon the need of regular exercise, as an offset to nervous fatigue and exhaustion. The University very properly should take the lead in establishing a standard of physical, as well as moral, health and training, which its graduates can in turn carry into the communities in which they live. In connection with this responsibility, it is again urged that a department for the teaching of physical training be established. Many courses now given in several of the colleges could be utilized for the scientific development of such a department; while the practical requirements could be met by the use of the new gymnasium, under the direction of a somewhat larger staff.

Vocational Conference.—The first Vocational Conference for the women of the University was held February 17 and 18, 1915. All women who wished to attend this conference were excused from regular class appointments, with the result that fully five hundred students regularly attended the sessions. A varied program was presented by experts. Miss Bennett, Director of the Chicago Collegiate Bureau of Occupations, not only addressed the students on opportunities in journalism and secretarial work, but also held several conferences with groups of women, as to possible vocations. This large conference was followed by informal talks with students who cared to come to this office for suggestion and information about vocations for women. A carefully selected collection of pamphlets and circulars, giving necessary information on all kinds of available work for women, was placed at the students' disposal. This has been the preliminary step in the direction of the more systematic vocational guidance, which the Dean of the College of Science, Literature, and the Arts plans to effect through his vocational committee.

Administrative duties.—With the growth of all departments within the University, the work of this office has inevitably grown in amount and complexity. By the re-organization of committees in the College of Science, Literature, and the Arts, the work of the Administrative Board of that college is perhaps the heaviest of any single committee in the University. Of that board, the Dean of Women is a member. She is particularly responsible for the supervision of the work of women. She

is also a member of the Students' Work Committee, which discharges for the College of Agriculture duties similar to those performed by the Administrative Board. She also serves on the Senate Committee on Student Affairs, and has recently been appointed on important committees, one of which is concerned with plans for the future work of women. As Professor of the Department of Rhetoric, she has her share of administrative, as well as of academic, duties.

The supervision of the living conditions of women has kept pace with other administrative demands. Altho the inspection of lodging houses is done by a representative from this office, all the difficult questions of equity and conduct, arising between householder and student, must be directly adjusted by your Dean of Women. She not only supervises the Employment Bureau for Women Students, but she may be called upon for advice and assistance by any woman in the state who wishes the position of paid chaperon, house-mother or matron. She serves in an advisory capacity to the Young Women's Christian Association, and to the self-government associations of both campuses. Her office is expected to enforce the system of chaperonage, recently inaugurated, a matter not always easy of accomplishment, on account of the more clearly defined responsibilities imposed upon the chaperon, and the consequent difficulty of obtaining a sufficient number of volunteers. The difficulty of the problem is still further aggravated, if not, to a large degree, created, by the fact that students do not invariably extend that courteous consideration to the chaperon which mitigates the tedium of the office.

Social duties.—The social demands made, are equally varied and insistent. The Dean of Women attends officially all the parties given by the women's organizations on both campuses. Many of these organizations she addresses at least twice a year. She visits students in the coöperative houses, dormitories, sorority houses, and in as many of the rooming-houses as the pressure of other duties permits. It is a matter of regret that she is often obliged to refuse many of the invitations to address groups of women throughout the state.

The Dean of Women has taken the liberty to point out at this length the increase in the demands made upon this office, as she feels that the work promisingly begun must soon be restricted in its scope and thoroughness, unless there is adequate assistance to carry it on.

Respectfully submitted,

MARGARET SWEENEY, *Dean*

UNIVERSITY EXTENSION

AGRICULTURAL EXTENSION DIVISION

During the year ending July 31, 1915, the Agricultural Extension Division has had in its employ sixteen men and three women who have devoted full time to Agricultural Extension work. Nine men and two women devoted part time to the work. This is in addition to the County Agents, Farmers' Institute workers and office force.

Farmers' Institutes.—The Farmers' Institute work has been handled through the same organization as the Agricultural Extension work, altho supported by a separate appropriation and administered by a separate board. It is in reality but a branch of the Agricultural Extension work. Institute workers are hired by the week, largely between December 1 and April 1. Nineteen men and two women were employed. During the year the following Institutes have been held:

	Number	Total attendance	Average attendance per session
Regular institutes.....	274	48,710	178
Special institutes, consisting of Farmers' Club meetings, school officers' meetings, cooperative organization meetings, etc.....	512	48,630	95

Farmers' Institute Annuals.—Fifty thousand copies of *Farmers' Institute Annual* No. 27 were published and distributed free at the various agricultural meetings held in the state. *Annual* No. 27 was devoted quite largely to the farm home. Methods of installing heat, light, plumbing, and sewage disposal systems were quite fully described. Plans for farm houses, barns, and other buildings were included, as well as plans for beautifying the farm home and for the convenient arrangement of farm buildings.

Farmers' Clubs.—*Extension Bulletin*, No. 1, published January 1, 1910, outlined in some detail the Farmers' Club movement, which has grown continuously since that time. The Agricultural Extension Division has continued to advocate the farmers' clubs, to encourage their organization, and to give what assistance it could in maintaining the organizations after they were formed. During the year about two hundred new clubs have been organized, so that there were approximately one thousand farmers' clubs on the Extension Division list August 1, 1915. The campaign, as first started, was to organize a farmers' club in each agricultural township. This would provide for about sixteen hundred clubs in the state. It has been found impracticable to organize the clubs on the basis of townships. The natural center for the farmers' club is the rural school

community. The consolidated schools furnish excellent centers for such clubs.

The county agricultural agents and the high school agricultural men have all been working with the clubs in their communities and have helped to organize new clubs. The Agricultural Extension Division has employed a man practically full time to take care of the correspondence in connection with the farmers' clubs and to give them whatever additional assistance is possible. A monthly News Sheet, reporting the activities of other clubs, has been multigraphed and sent to the clubs. *The Farmer*, published in St. Paul, has devoted one page each week to notices concerning the farmers' clubs in the state, and to reports from individual clubs. Other farm papers, the *Farm, Stock and Home*, the *Northwest Farmstead*, and the *St. Paul Twice-a-Week Dispatch* have devoted a liberal amount of space to reports from the farmers' clubs.

During the early part of the winter practically all of the Institute work in the state was done through the farmers' clubs. Instead of arranging Farmers' Institutes in towns and villages, as has formerly been done, most of the effort of the Institute workers has been devoted to attending local farmers' club meetings, at special requests from the clubs. We believe it is more effective to send the Institute workers to a community on invitation from the community than to send two or more speakers to a town and advertise for people to come to the meeting. The farmers' club makes the meeting a meeting of the farmers, conducted by them, and it gives them a chance to choose their speaker, or at least to decide on the subject they want discussed.

At the Farmers' and Home-Makers' Short Course held at University Farm during the first week in January, a committee was appointed to investigate the feasibility of organizing a State Federation of Farmers' Clubs.

Boys' and Girls' Club Work.—The special effort in boys' and girls' club work has been to organize it as a regular part of the public school system besides cooperating with farmers' clubs, county agricultural associations, and other community forces in interesting boys and girls in better agriculture.

The special club projects for 1914 were the Acre Yield Corn Contest for boys and the Bread-making Contest for girls. About one thousand boys finished the Corn Contest. Roy Halverson, of Chippewa County, who won the grand championship of the state, produced 115.7 bushels of dry shelled corn on his acre, and was given a scholarship in the Minnesota School of Agriculture. The average of the seventy-six prize winners was 85.2 bushels of shelled corn per acre based on dry weight. In the Bread-making Contest, sixteen hundred girls were enrolled. More than seven hundred finished. The two girls with the best records were given a trip to Washington as a special prize.

For 1915, 3,100 boys were enrolled in the Corn Contest, 857 boys and girls in the One-eighth Acre Potato Contest; 1,000 in the Garden and Canning Contest; 47 in the Baby Beef Contest; 340 in the Pig Club;

2,125 girls in the Bread-making Contest. There are 700 organized boys' and girls' clubs in the state.

All the boys' and girls' club work has been conducted in close coöperation with county superintendents, county agricultural agents, and the special teachers of industrial subjects in the high schools.

Short Courses.—The five-day Agricultural Extension Short Courses similar to those carried on in the past have been continued. Most of these Short Courses are held during the months of January, February, and March, tho a few have been held before the holidays. During the year 43 Short Courses were conducted. Five thousand two hundred thirty-five men attended these Courses and 3,865 women, a total of 9,100 persons. The average daily attendance for the five days was 78 men and 50 women, or a total of 128. The total attendance, counting all present at all of the sessions, was 51,200.

The work in Home Economics and Livestock in these Courses was approximately the same as that given the preceding year, except that where the course was given for the second year, more advanced work was presented. In Agronomy more attention was given to farm management and farm buildings and less attention to the growing of field crops. There seems to be a growing interest in the business side of farming. Five-day Agricultural Extension Short Courses were held in the following towns: Adrian, Akely, Albert Lea, Barnesville, Brooten, Byron, Canby, East Grand Forks, Excelsior, Farmington, Fergus Falls, Glencoe, Hallock, Halstad, Hastings, Hawley, Herman, Heron Lake, Hutchinson, Lake Crystal, Lanesboro, Le Sueur, Lyle, Madelia, Minneota, Montevideo, Moose Lake, Mora, Morristown, Pine River, Renville, St. Peter, Sandstone, Slayton, Tracy, Truman. Villard, Warren, Waseca, Wheaton, Willmar, Windom, Winnebago.

County Agents.—The County Agricultural Agent movement has received somewhat of a setback. This was anticipated a year ago. It is plain now that the work was started too rapidly in many of the counties. It was started without sufficiently acquainting the farmers with the objects of the work and gaining their support before it was established. In many counties the necessary funds were guaranteed by bankers, business men, and county officials without carrying on the educational campaign in the county, which we have since found to be necessary. As a result, two of the counties have during the year discontinued the work. This has emphasized the need in each county of some sort of county organization that will be representative of the farmers in the county, or at least representative of the local farmers' organization in the county, so that the County Agent will be a representative of the farmers and employed through their coöperation.

A large part of the supervisory work during the past year has been devoted to an educational campaign with a view to acquainting the farmers with the objects of the work and gaining their support. While one county has begun work, two of the counties have dropped out, so that where we had 25 counties in the work a year ago, we now have 24 counties, with the prospect that several more will drop out.

The work of the County Agents has progressed very satisfactorily. There is little doubt but that every agent has contributed to the welfare of the county many times the amount of his salary. The hog cholera has continued but has been less acute than during the preceding year. A great deal of excellent educational work along sanitary lines has been done by the agents and many counties are so well organized that they now need have little fear of serious losses from cholera.

Alfalfa work.—The agents have continued the work of increasing the amount of alfalfa and clover raised in their counties. Through the State Leader's office 14 carloads of alfalfa seed and $4\frac{1}{2}$ carloads, of 30,000 pounds each, of clover seed were thoroly looked up and tested through the State Seed Laboratory and placed on the approved list, so that it has been possible for every farmer desiring good alfalfa seed to secure seed that he knows to be northern grown and free from dangerous weeds.

Plans.—The year has shown the need of more definite planning of County Agent work. The State Leader, in coöperation with the County Agents and the people in each county, has helped to work out a plan of work to be carried out during the following year. Each county has adopted four or five lines of work as its leading projects, and has worked out a very definite plan of carrying them on, so that the County Agent work is much better organized than it has been in the past. A definite plan of county organization known as the "Farm Bureau" has been quite generally adopted. This provides for representation of all the interests in the county in the organization, and it is hoped in this way to get their hearty coöperation. It is believed that the farm management demonstrations mentioned in another paragraph will furnish to the county agents some definite demonstrations of successful farm practices in their own counties.

The county agent work is financed in each county approximately as it was the preceding year. From State appropriations \$1,000 is available. The Board of County Commissioners may appropriate \$1,000 if they so desire, and the United States Department of Agriculture has contributed \$300 per county. In addition, the Agricultural Extension Division and the United States Department of Agriculture are coöperating in employing a man full time, and maintaining an office with a stenographer half time, to aid with the supervision of the county agent work. Practically every county has appropriated the full \$1,000. In one county the work is being supported quite largely by contributions made by the various farmers' clubs in the county. Additional funds needed in any of the counties are supplied by local subscription. This method of financing the work is undesirable, and wherever possible arrangements should be made to raise the money by taxation.

Farm management demonstrations.—This work was inaugurated September 1, 1914; it is conducted in coöperation with the United States Department of Agriculture, approximately half of the expense being borne by that Department. As outlined in the memorandum of understanding between the coöperating parties, the object is twofold:

1. To demonstrate to farmers the possibility of increasing their net income by modifying the organization of their farm business in such factors as a comparison with the best paying farms of the locality show to be likely to result in greater profit.

2. To increase the efficiency of the county agent work. It is expected that in the counties in which this work is inaugurated, the efficiency of the county agent work will be increased in the following ways:

- a. The demonstration will give the County Agricultural Agent a solid basis for his program of agricultural improvement by providing local information as to the average returns in his county for the labor and capital invested in the business of farming, and as to the relation of size of business, productivity of crops and livestock, and other factors in farm organization to the net returns of the farmer.

- b. The demonstration, showing the profits of farming and factors affecting same, will enable the county agent to make increased net returns the basis of his appeal for certain changes or improvements in farm organization.

The method of procedure is to select a group of sixty to seventy-five farmers in a locality. The present force limits the demonstration to ten of those counties employing county agricultural agents. A record of the year's business is secured from each farmer by the farm survey method. A summary showing the net returns for labor and capital and analysis of the factors affecting the same, is then returned to each farmer. It is planned to continue the work in each locality for from three to five years. Wherever possible the coöperators are interested in keeping such farm records as are needed to make a summary of their business. In order to promote interest in this phase of the work, a simple record book has been prepared for the use of coöperators and is furnished free. First year records were taken in eight counties and second year records in two counties. In all 522 records were taken, summarized, and returned to each farmer through the county agent.

Demonstration farms.—The demonstration farm work has been continued with practically the same farms during the year of 1914 as were operated in 1913. As a general rule the net returns or percentages made on the investment on these farms are gradually increasing. When the five-year contract runs out, another farm is secured in the same county and in most cases in the same community.

Besides carrying on the regular work of the demonstration farms, such as crop rotations, eradicating noxious weeds, farm drainage, farm organization, and livestock improvement, a great deal of time and effort has been spent in the erection of silos, remodeling of old barns and building new ones.

The plan with each demonstration farm is to direct the operations of the whole farm so that the farmer's total investment of time and money may be used to the best advantage. An attempt is made to have the work of each farm such that it may be profitably followed by other farmers of the community. There is only one demonstration farm in a county.

YIELDS SECURED ON DEMONSTRATION FARMS IN 1914 COMPARED
WITH STATE'S AVERAGE

Crop	Number of farms	Acres	Total number of bushels	Demonstration farm's average	State's average
Wheat	12	234½	2,942	12.5	10.6
Oats	25	590½	20,458	34.6	28.0
Barley	12	150½	3,974½	26.4	23.0
Corn	22	596	26,241	44.0	35.0
Potatoes.	23	67	8,883	132.6	114.0
Flax	5	71	756	10.6	9.3

PRODUCTION OF THE DAIRY HERDS ON DEMONSTRATION FARMS
IN 1914

	Milk pounds	Fat pounds	Value of butter fat
Average per cow on Demonstration Farms	5,797.3	229.9	\$69.25
Average per cow in State (estimated)...	4,000.0	150.0	47.25
Difference.....	1,797.3	79.9	\$22.00

Special meetings.—The Division is called upon constantly for assistance in connection with all sorts of meetings, such as rural school meetings, farmers' clubs, farmers' picnics, meetings of coöperative organizations, and teachers' and school officials' meetings. The Division has attempted to meet these requests so far as possible. It is utterly impossible with the facilities at hand to take care of all of them, but through the year 1,597 such meetings were attended by one or more people from the Division. This is in addition to the regular Institute and Short Course work. There was a total attendance of 149,277 people at these special meetings.

County fairs.—During the fall of 1914 judges were furnished for over one hundred county and street fairs. These fair associations depended almost entirely upon the Agricultural Extension Division for judges. The Division furnished the judges and the county fair associations paid the traveling and hotel expenses. Judging at county fairs is being made more and more an educational matter, and there has been a great improvement in the premium list and in the quality of exhibits. It is our hope that sometime we may make these county exhibits and the judging of the exhibits still more educational than it is at present. To do this at least two things are needed. First, more room must be provided for the exhibits and seating capacity provided. Second, more judges must be employed so that there will be time enough to explain the reasons for placing the exhibits. This, in our judgment, will furnish the best sort of demonstration work along the lines of improving livestock and farm crops,

because it will be conducting a real demonstration with the products of the community.

Cow Testing Associations.—We have had no one available to devote very much time to cow testing association work, and as a consequence three or four of the associations have discontinued the work. However, several new ones have been organized, so that the work has just about held its own for the year. Plans have been completed for employing a man coöperatively with the United States Department of Agriculture to devote most of his time to cow testing and breeders' association work. One of the chief difficulties in connection with cow testing associations is to secure competent men at the wages that can be paid. As a consequence the fee in practically all of the cow testing associations has been raised from \$1 to \$1.25 or \$1.50, but since the tester can handle not more than 500 cows it is still hard to get the right type of man for the money available. It is hoped that some plan may be worked out by which undergraduate students may be used in this work and possibly receive some credit for their year's experience. Cow testing association work affords excellent experience for an undergraduate, as it brings him in contact with a number of different farmers and farm families and familiarizes him with their methods of farming. A start has been made in the organization of local or county coöperative breeders' associations, of which there are now eight in the state.

Livestock Shipping Associations.—There has been an increasing demand for assistance from the Division in the organization of livestock shipping associations. The first association was organized through the efforts of the farmers' club at Litchfield early in the summer of 1908. On July 31, 1915, there were approximately 150 associations in the state. These associations have succeeded almost without exception. Their success has been due to the fact that livestock can be marketed for from 10 to 40 or 50 cents per 100 pounds less through the shipping association than through local buyers. The Division has actively encouraged the organization of these associations.

Plays.—The "Back to the Farm" play continues to be popular. This play was given in fourteen places and was received with the usual favor. Quite a large number of local schools and several farmers' clubs have put on this play with local casts. Several of these local casts have done so well with the initial presentation of the play that they have given it two or three or more times in other communities. This is an excellent play and should be seen by every one in the state.

"The Booster," a new play, prepared by Miss Marjorie Mortland, of Minneapolis, deals in a very effective way with the problem of community development and organization. This play has been given in twelve places with fair success.

Publications.—Publication work has been continued along the same lines as last year. Extension bulletins have been published as follows:

No. 54. *Some Four-footed Farm Pests*, by F. L. Washburn. 60,000 copies issued.

No. 55. *Mosquitoes and Their Control*, by C. W. Howard. 60,000 copies issued.

No. 56. *Farmers' Clubs*, by A. D. Wilson. 60,000 copies issued.

Special Bulletin, No. 1, *Spraying Calendar*, by A. C. Ruggles and E. C. Stakman. 10,000 copies issued.

Special Bulletin, No. 2, *Hog Cholera and the Use of Serum*, by H. P. Hoskins. 15,000 copies issued.

University Farm Press News. 24 issues. 3,800 per issue.

Rural School Agriculture. 8 issues. 12,000 copies per issue.

Rural School Agriculture, supplement, 1 issue. 5,000 copies per issue.

Reprints—

No. 3. *Industrial Contests*. 20,000 copies.

No. 10. *Care and Management of the Dairy Herd*, by George P. Grout. 15,000 copies.

No. 15. *The Cost of Horse Labor*, by T. P. Cooper. 15,000 copies.

No. 39. *Minnesota Seed Law*, by W. L. Oswald. 15,000 copies.

The mailing list for Extension bulletins is about 48,000. Sixty thousand copies of each bulletin are published, to provide a surplus for special requests. It has been necessary to reprint a large number of Extension bulletins during the year.

Twenty-four numbers of *University Farm Press News* were published and distributed. Thirty-eight hundred copies of each issue were published. This publication goes to local papers and to a few people in each community who are especially interested in educational work. It is not sent to farmers. During each of the nine school months, *Rural School Agriculture* has been published and mailed to each rural-school teacher in the state. Ten thousand copies of each issue were published and sent out.

Coöperative Extension work.—Under the Memorandum of Understanding signed by the University of Minnesota and the United States Department of Agriculture, all of the Agricultural Extension work done in the state of Minnesota, either by the University or by the United States Department of Agriculture, shall be done through the Agricultural Extension Division of the University of Minnesota. The purpose of this agreement is to centralize and unify the Agricultural Extension work in the State so as to avoid working at cross purposes, and to avoid any unnecessary duplication of effort. Under this agreement and the Federal Smith-Lever Act passed May 8, 1914, all of the Extension work in Minnesota is to be done under projects drawn up by the Agricultural Extension Division, and approved by the United States Department of Agriculture. The United States Department of Agriculture is contributing funds for Agricultural Extension work in the state as follows: Half of the salary and expenses of Mr. F. E. Balmer, State Leader of county agent work, amounting to \$1,860; \$300 per county toward the salary of each of the twenty-four county agents, amounting to \$7,200; or a total of \$9,060 toward the county agent work. The United States Department is paying half of the salaries and expenses of Mr. T. A. Erickson and Mrs. Margaret B. Baker, amounting to \$2,400, toward the boys' and girls' club

work. The Department is also paying half the salaries and expenses of Messrs. W. L. Cavert and S. B. Cleland, in farm management demonstrations. This amounts to \$2,500, or a total of \$13,960 contributed by the United States Department of Agriculture toward Agricultural Extension work in Minnesota.

SUMMARY OF WORK ACCOMPLISHED

Meetings.—The following table shows the number of meetings of various kinds held in the state, but does not include any part of the work done by the county agents or meetings held by them.

KIND OF MEETINGS	Number	Attendance	Approximate number of individuals attending
Regular Institutes	93	48,710	20,000
Special Meetings	512	48,630	48,630
Agricultural Extension Short Courses.	43	51,200	9,100
Special Meetings	1,597	149,777	149,777
Totals.....	2,245	298,317	227,507

Farmers' clubs.—During the year about 200 new farmers' clubs have been organized, so that there are now about 1,000 clubs in the state representing about 23,000 farm homes, or a total membership of approximately 100,000 people.

Boys' and Girls' Club work.—In 1914, about 1,000 boys finished the corn contest work. The average yield of the 76 prize winners was 85.2 bushels of shelled corn per acre. More than 700 girls completed the work in bread baking. For the 1915 contests, 3,100 boys are enrolled in the corn contest; 87 boys and girls in the potato contest; 1,000 boys and girls in the gardening and canning contest; 47 in the baby beef contest; 340 in the pig club; and 2,125 girls are enrolled in the bread making contest. There are about 700 boys' and girls' clubs.

Demonstration farms.—Twenty-eight demonstration farms have been regularly visited.

County Agents.—Twenty-four county agents have been kept in the field.

Farm management demonstrations have been conducted in eight counties and 522 farm records taken, summarized and returned.

County fairs.—Judges were furnished for over one hundred county and street fairs.

Cow testing associations.—Four new cow testing associations, and eight coöperative breeders' associations have been organized.

Livestock Shipping Associations.—Between fifty and sixty coöperative livestock shipping associations have been organized during the year.

Respectfully submitted,

A. D. WILSON, *Director*

GENERAL EXTENSION DIVISION

INTRODUCTORY

The General Extension Division covers as its field night classes in the Twin Cities, Duluth, and elsewhere, correspondence courses, extension lectures, and the University Lyceum, the Municipal Reference Bureau, a lantern slide bureau, and a short course for merchants. University Weeks are conducted in twenty-four towns in the state each year, and debating in the high schools is fostered and encouraged. Advice is also given to those interested in the organization of community centers in schools and other public buildings. All of these activities developed during the past year. Altho the night class enrollment for 1913-14 was double that of the year before, nevertheless the enrollment for 1914-15 showed a further increase of 66 per cent. Details of other branches of extension activity will be found elsewhere in this report.

EVENING EXTENSION CLASSES

The first semester began September 28, 1914, and ended January 30, 1915. The second semester began February 1, 1915, and ended May 21, 1915.

COLLEGIATE COURSES

CLASS	ENROLLMENT FIRST SEMESTER	ENROLLMENT SECOND SEMESTER
MINNEAPOLIS		
American Literature		123
British Poets of the 19th Century.....	45	
Chemistry	14	12
Commercial Geography		15
Economic Democracy	28	
Educational Standards in a Democracy	22	
French, beginning	13	11
Geology, general	14	
German, beginning	15	12
German, elementary conversation	14	14
German, prose and poetry	13	10
Greek in English.....	16	
Greek Drama		12
Human Nature (2 classes)		53
Man and His Living (5 classes).....		105
Poetry of Browning	33	
Present Day Philosophy	13	12
Public Speaking	22	16
Recent Masters of English Verse.....		14

Rhetoric	8	34*
Roman Life and Architecture	14	
Roman and Italian Life and Art.....		12
Shakespeare		15
Short Story	34	
Spanish, beginning	12	12
Swimming	33	16†
	<hr/>	<hr/>
Total	363	498

* Three classes.

† In addition to those of first semester.

ST. PAUL

In coöperation with the St. Paul Institute

Commercial Geography		23
Economic Democracy	59	
English Prose of the 19th Century....	13	12
French Conversation	15	
Geology, general	22	
Geography and Geology of Minnesota.	13	
Man and His Living.....		10
Public Speaking	14	9
	<hr/>	<hr/>
Total	136	54

ST. PAUL

Convent of Sisters of Visitation

Man and His Living.....		15
Rhetoric		13
		<hr/>
		28
Total	136	82

DULUTH

Economic Democracy	10	
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ST. CLOUD

Economic Democracy	28	
Man and His Living.....		18

WINONA

Geography and Geology of Minnesota.	20	
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TOTAL COLLEGIATE

Minneapolis	363	498
St. Paul	136	82
Duluth	10	
St. Cloud	28	18
Winona	20	
	<hr/>	<hr/>
Total	557	598

BUSINESS COURSES

CLASS	ENROLLMENT FIRST SEMESTER	ENROLLMENT SECOND SEMESTER
MINNEAPOLIS		
Accounting Practice and Procedure A.	14	15
Accounting Practice and Procedure B.		13
Advertising	26	16
Banking Practice	55	
Business Correspondence	71	19
Business Law A	67	12
Business Law for Bank Clerks.....	31	14
Business Law B		34
Business Law C	10	
Business Law D		16
Cost Accounting	15	
Elements of Economics	40	19
Investments and Speculations.....		22
Principles of Accounting A (3 classes)	95	
Principles of Accounting B	17	36*
Principles of Accounting A and B, class meeting twice a week		20
Railroad Traffic and Rates.....	15	9
Retail Selling	18	8
Retail Selling, classes in stores, Don- aldson's, Minneapolis Dry Goods Company		213
Salesmanship	47*	49†
	521	510

* Two classes.

† Three classes.

ST. PAUL

In coöperation with the St. Paul Institute		
Accounting Practice and Procedure A.	16	
Accounting Practice and Procedure B.		11
Advertising	16	
Business Correspondence	10	
Business Law A	20	
Business Law B		19
Business Law E	9	
Elements of Economics.....	16	11
Principles of Accounting A.....	33	
Principles of Accounting B.....	7	18
Principles of Accounting A and B, class meeting twice a week		9

Railroad Traffic and Rates	9	
Retail Selling	5	
Salesmanship	37	18
	<hr/>	<hr/>
	178	86
Retail Selling, class in store, Schunemann and Evans	162	
	<hr/>	
Total	340	86
DULUTH		
Accounting Practice and Procedure...		7
Business Law A	19	
Principles of Accounting A.....	21	
Principles of Accounting B.....	9	17
Retail Selling	12	
Retail Selling, class in store, John A. Gray Company	110	
	<hr/>	<hr/>
	171	24
ALBERT LEA		
Business Law A		22
Retail Selling		29
Retail Selling, class in store, Skinner and Chamberlain		40
		<hr/>
		91
AUSTIN		
Business Law A		32
NORTHFIELD		
Retail Selling		25
ST. CLOUD		
Business Law A	15	
Retail Selling		31
TOTAL BUSINESS		
Minneapolis	521	510
St. Paul	340	86
Duluth	171	24
Albert Lea		91
Austin		32
Northfield		25
St. Cloud	15	31
	<hr/>	<hr/>
Total	1047	799

THE PRESIDENT'S REPORT

ENGINEERING COURSES

CLASS	ENROLLMENT	
	FIRST SEMESTER	SECOND SEMESTER
MINNEAPOLIS		
Alternating Currents	13	10
Architectural Design, elementary	15	14
Architectural Design, intermediate ...	17	12
Architectural Design, advanced	9	8
Automobile Construction	11	
D. C. and A. C. Machinery		7
Electricity, beginning	35	10
Gas Engines	12	
Heating and Ventilation	11	
Mechanical Drawing	9	17
Mechanical Equipment of Buildings...		8
Plumbing		9
Reinforced Concrete Design	10	7
Shop Mathematics	17	21
Structural Design	13	
Trigonometry	11	6
	<hr/>	<hr/>
	183	129
ST. PAUL		
In cooperation with the St. Paul Institute		
Shop Mathematics	8	8
DULUTH		
Electricity, beginning	2	
Shop Mathematics	9	9
Trigonometry		1
	<hr/>	<hr/>
	11	10
TOTAL ENGINEERING		
Minneapolis	183	129
St. Paul	8	8
Duluth	11	10
	<hr/>	<hr/>
Total	202	147

SUMMARY OF ENROLLMENT

COLLEGIATE COURSES	ENROLLMENT		
	FIRST SEMESTER	SECOND SEMESTER	TOTAL FOR YEAR
Minneapolis	363	498	861
St. Paul	136	82	218
Duluth	10	....	10

St. Cloud	28	18	46
Winona	20	....	20
	<hr/>	<hr/>	<hr/>
	557	598	1155
BUSINESS COURSES			
Minneapolis	521	510	1031
St. Paul	340	86	426
Duluth	171	24	195
Albert Lea .....	....	91	91
Austin .....	....	32	32
Northfield .....	....	25	25
St. Cloud	15	31	46
	<hr/>	<hr/>	<hr/>
	1047	799	1846
ENGINEERING COURSES			
Minneapolis	183	129	312
St. Paul	8	8	16
Duluth	11	10	21
	<hr/>	<hr/>	<hr/>
	202	147	349
Total	1806	1544	3350

The tuition fees paid by students for night classes in the first semester amounted to \$9,552.50, and in the second semester \$7,669.00, a total of \$17,221.50. In addition to the above thirty-one students were registered for evening classes in the Law School and the fees paid into the Law Budget.

3350 was the total number of registrations for night classes during the year 1914-15. These registrations were made by 2508 individuals.

According to an arrangement made with the St. Paul Institute, ten per cent of the gross fees obtained from students in St. Paul classes was paid to the St. Paul Institute. This amounted to \$190.40 for the first semester and \$93.15 for the second semester, a total of \$283.55. All Extension night classes are semester classes and the registration is, therefore, taken twice in the academic year.

COMPARISON OF ENROLLMENT FOR 1913-1914 WITH 1914-1915

	1913-1914	1914-1915
TOTAL COLLEGIATE		
Minneapolis	431	861
St. Paul	172	218
Duluth	87	10
St. Cloud .....	....	46
Winona .....	....	20

TOTAL BUSINESS

Minneapolis	654	1031
St. Paul	113	426
Duluth	52	195
Albert Lea .....	....	91
Austin .....	....	32
Mankato	56	....
Northfield	27	25
St. Cloud .....	....	46

TOTAL ENGINEERING

Minneapolis	166	312
St. Paul	16	16
Duluth	43	21
Total	205	3350

MERCHANT'S SHORT COURSE

The second annual Merchants' Short Course was held in the Main Engineering Building during the week of February 8-13, 1915. The increased registration over that of last year—231 as compared with 138—and the most interested attention, gave evidence of the real demand for this means of instruction. The course was under the direct supervision of Professor Paul H. Neystrom of our staff, who was assisted by able and well-known experts in the field of retail merchandising. The course received the warm support of the wholesale houses of the Twin Cities who coöperated in giving publicity to the enterprise. An effort was made to deviate from the "convention" type of program and to develop a course which would more nearly represent a school. The morning sessions were devoted to the general interests of both managers and salespeople, but the afternoon sessions were divided into groups, the program for each group being devoted to special lines of merchandising. The evenings were devoted to general lectures and moving pictures illustrating merchandising progress. It is hoped that this specialization may be carried still farther next year, and the course extended to at least a month. Real instruction can thus be afforded, with class recitation, with assignments, drill, and discussions. The question of a more extended program of, say six weeks, was submitted to the members in attendance, with the result that the idea met with an almost unanimous, favorable response.

UNIVERSITY WEEKS

The fourth annual tour of University Weeks given May 31 to June 12, 1915, inclusive, was very successful. Altho the fee charged to each town was raised from \$300 to \$325, twenty-four towns entertained the Weeks. The reports from the towns as well as from the participants and

the managers indicate that the programs gave satisfaction and in many towns met a real educational need. Some of the towns have already sent in petitions asking for the Weeks next year. Unfortunately the reduction in our appropriation will compel us once more to increase the price. It has therefore been decided to charge each town \$400 and to limit the number of towns to twelve. The towns visited during the week May 31 to June 5, together with the managers, were as follows: Brownnton, Mr. H. T. Viets; Bird Island, Mr. B. V. Crawford; Sacred Heart, Mr. W. M. Sternberg; Granite Falls, Mr. O. C. Edwards; Montevideo, Mr. R. B. Oshier; Glencoe, Mr. R. W. French; Hancock, Mr. G. Dietrichson; Herman, Mr. C. L. Rotzel; Hawley, Mr. Thomas Smart; Perham, Mr. H. B. Gislason; Melrose, Mr. A. E. Koenig; Pelican Rapids, Mr. C. H. Preston. The towns visited during the week of June 7 to June 12 together with the managers were as follows: Eyota, Mr. R. B. Oshier; West Concord, Mr. C. H. Preston; Taylors Falls, Mr. G. Dietrichson; Moose Lake, Mr. C. L. Rotzel; Rush City, Mr. A. E. Koenig; New Prague, Mr. O. C. Edwards; Springfield, Mr. Thomas Smart; Minneota, Mr. H. B. Gislason; Winnebago, Mr. O. S. Zelner; Jackson, Mr. W. L. Miser; Lakefield, Mr. L. K. Adkins; Heron Lake, Mr. W. E. Anderson. The following members of the faculty took part in the Weeks as participants in the program: Cephas D. Allin, Andrew Boss, Gisle Bothne, W. G. Brierley, N. E. Chapman, J. L. Chesnutt, Hardin Craig, James Davies, H. A. Erikson, G. A. Gesell, A. E. Jenks, E. M. Lehnerts, B. L. Newkirk, S. F. Pattison, Anna Phelan, B. F. Pittinger, D. F. Swenson, A. D. Wilson. In addition to the members of the faculty who participated in the programs there were fifty-five students and thirty-three people from outside the University who assisted. The financial report follows:

FINANCIAL REPORT ON UNIVERSITY WEEKS, 1915

EXPENDITURES

Fees to participants	\$2,540.00
Traveling expenses of participants, including managers	3,300.01
Traveling expenses of Mr. Price, visiting the Weeks..	25.57
Expenses of Mr. Oshier booking the Weeks.....	304.76
Hotel, bus, drayage, automobile.....	2,613.62
Advertising	257.97
Printing	324.00
Postage	89.00
Incidentals, including \$14.28 carried over from 1914, rental of costumes for plays, and lantern for Heron Lake	203.14
Fees to operators of lanterns and accompanists in towns	54.25

Express	17.25	
Extra office help	13.90	
Total		\$9,743.47

RECEIPTS

Total receipts from the twenty-four towns.....	\$7,850.00	
Amount contributed by the University from Extension funds	1,893.47	
Total		\$9,743.47

CORRESPONDENCE COURSES

Altho the development of correspondence courses in as large a state as Minnesota is necessarily somewhat slow, nevertheless some advance has been made over last year. Some new courses have been developed and plans are under way for increasing this number. One of the present problems is to convince the instructors who conduct the courses that a special point of view is necessary and that a particular method is required for conducting courses through correspondence. The development of this understanding of the position and limitations of the correspondence student is slow, but is necessary for real progress. The following statements will show the work done during the past year:

Number of students enrolled from August 1, 1913, to August 1, 1914	83
Number of students enrolled from August 1, 1914, to August 1, 1915	102
(This increase for 1914-1915 amounts to 22 per cent.)	
Number of students on the roll August 1, 1914.....	76
Expirations during the year	30
Refunds during the year	4
Cancellations during the year	6
Reinstatements during the year	12
Number of courses completed during the year.....	49
Number of students carried on the roll during the year in business subjects, 11; in collegiate subjects, 172; total.....	183
Number of active students during the year (those sending in four or more lessons)	105
Number of inactive students whose terms have not expired.....	33
Number of students carrying two courses during the year.....	49
Number of instructors.....	31
Number of students on the roll August 1, 1915.....	100
Number of students active on August 1, 1915.....	68

LECTURE AND LYCEUM DEPARTMENT

The Lecture and Lyceum Department showed remarkable development during the academic year 1914-15, especially as compared with the year 1913-14 when the work was begun.

- 48 attractions were used altogether
- 12 were members of the University Faculty
- 1 was the University Glee Club
- 35 were taken from outside the University

One hundred towns were given courses of two or more numbers. On these courses 522 attractions appeared and the fees collected amounted to \$25,040.83.

In addition to the courses named above, for which fees were charged, the Division also arranged for the delivery of three series of lectures in Minneapolis. These lectures were given by members of the University Faculty and no fees were charged.

Thirty-two towns had single lectures or entertainments and the total amount of fees collected was \$1,078.49.

Through the West Central Development Association entertainments were furnished for fifteen towns. The fees collected from these towns amounted to \$975.

Through the state organization of the Knights of Columbus illustrated lectures were given by Professor E. M. Lehnerts of this Division in 42 towns. The fees collected amounted to \$731.

COMPARISON BETWEEN 1913-1914 AND 1914-1915

COURSES

	1913-1914	1914-1915
Number of towns having courses.....	37	100
Number of engagements filled.....	184	522
Price of courses	\$4,675.00	\$25,040.83

Increase in number of towns having courses, 170 per cent.

SINGLE LECTURES OR ENTERTAINMENTS

	1913-1914	1914-1915
Number of towns having lectures or entertainments	50	89
Number of engagements filled	50	94

Increase in number of towns having single lectures or entertainments, 78 per cent.

Up to July 31, 1915, courses of from two to eight numbers were booked in 116 towns for delivery during the season 1915-16. The total cost of these courses aggregates \$30,105.

Commencement Addresses.—In addition to the lectures and entertainments listed above, 35 engagements for commencement addresses were booked through this office. Sixteen different men were used in filling these engagements.

LANTERN SLIDES

The year 1914-15 brought a greatly increased demand for loan collections of lantern slides. Some progress has been made toward the organization of a Bureau of Visual Instruction. Only lack of funds has prevented this being made a large and important part of our extension work. The following sets of slides have been purchased and are now available for borrowing schools:

The Passion Play of Oberammergau
 Following Great Men Through Greece
 Rome, the World Center of Olden Times
 Roman Sculpture and Architecture
 The Private Life of the Romans
 Caesar's Helvetian Campaign
 The Conquest of Tuberculosis
 Insect Pests of Minnesota
 Birds of Minnesota
 Wild Flowers of Minnesota

Each of these sets is packed in a handy shipping case and is accompanied by a typewritten lecture or commentary. The sets are sent out as loans and the only expense to the borrowing school is the cost of transportation. It should be noted that in addition to the constant demand for these sets of slides there is also an increasing demand for educational films. As soon as possible the University should provide films that may be sent out to the schools of the state on regular circuits. The total number of towns that borrowed these sets was 52. The total number of sets used was 106. In the preceding year only 11 towns made use of these sets.

EXTENSION DEBATES

During the year debates were given by University students under the direction of the Division in several towns in the State. The question for debate was as follows:

RESOLVED: That the United States should materially increase its armaments.

One squad of two men on a side debated during the year, and two squads of one man on a side debated during University Weeks. During the year eleven towns were reached and in addition, during University Weeks, twenty-four towns were reached. Objection on the part of the faculty because of the amount of time taken from University work caused these extension debates to be limited to week ends and materially reduced the number of towns reached.

MUNICIPAL REFERENCE BUREAU

During the year 1913-14 fifty-three villages and cities availed themselves of the services of this Bureau. During the year 1914-15 eighty

villages and cities referred specific inquiries to this department. This represents an increase for the year of over fifty per cent. In addition to the requests for information received from within the state, there were over two hundred letters of inquiry received from without the state.

The affiliation of the Bureau with the League of Minnesota Municipalities has been maintained and drawn closer. The affairs of the League are administered from this office. Problems are worked out and research made for the League in the office of the Bureau. At the annual conventions of the League members of the University Faculty contribute papers.

Respectfully submitted,

R. R. PRICE, *Director*

DEPARTMENT OF PHYSICAL EDUCATION FOR MEN

To the President of the University:

SIR: I herewith submit my report for the year 1914-15, together with some recommendations for the future.

Staff.—The staff of the Department of Physical Education for Men consists of a director, an assistant director, a clerk, a locker attendant, and an instructor in swimming and corrective gymnastics.

Chief tasks undertaken by the Department.—

1. Physical examination of all new matriculants and all those using the privileges of the department, and medical inspection of same.
2. Administration of a special lecture on sex hygiene.
3. Disease census of all new matriculants.
4. Conducting organized classes in gymnastics for all students in the College of Science, Literature, and the Arts.
5. Conducting of special classes for defectives in all colleges of the University.
6. Promotion of intramural sports, such as football, baseball, basketball, handball, tennis, swimming, etc.
7. Promotion of miscellaneous sports and physical activities, including gymnastics, wrestling, swimming, soccer, and Sigma Delta Psi.
8. Promotion of minor intercollegiate athletics.
9. Organization and administration of special features of physical education.

Physical examination.—1. A careful medical and physical examination is given all students entering the University for the first time. This required examination includes a personal history of the student; inspection and examination of heart, lungs, nose, throat, teeth, eyes, ears, skin, and body in general; prescription of exercise, and taking from twenty to forty measurements, including strength test, lung capacity, and giving advice on health whenever indicated. Each student examined is furnished with the gymnasium manual containing a copy of the record of his physical examination, together with a prescription of corrective exercises.

2. Medical inspection is required of all students using the department privileges, such as shower baths, swimming pool, towel exchange, gymnasium, training quarters, and athletic fields.

3. A second physical examination, at the end of the school year, is required of all students registered for the regular gymnasium course. During the year a total of 2,538 examinations were made, by the Director of the Department, divided as follows—1,167 original examinations with measurements, 253 re-examinations with measurements, 708 medical inspections, 164 re-examinations of heart, etc., 65 examinations on petitions for excuse from military drill, and 181 examinations, with treatment of

minor accidents. No records were kept of a large number of conferences with individual students concerning matters of personal health.

Special lecture.—A total of 1,598 students attended the special lecture on sex hygiene as required of all students entering the University and Farm School for the first time. This lecture was given in six divisions, five of which were at the University and one at the University Farm. The following staff delivered the lectures: at the University, Drs. J. C. Litzenberg, C. A. Erdmann, S. Marx White, H. L. Williams, Earl R. Hare; at the Farm School, Dr. Max Exner of the Y. M. C. A. International Committee.

Disease census.—A total of 1,017 disease census cards, properly filled out and signed, as required of all new matriculants, were collected. The cards were sent to the Epidemiological Division of the State Board of Health for recordation of data, and later were returned to the files of the Department of Physical Education for Men.

Gymnasium classes.—540 students were enrolled in organized gymnasium classes. Of this number 36 were students taking the work over, 40 were defectives, 70 were freshmen leaders, 10 were advanced leaders, 42 were cancelled during the year, and 352 were freshmen, not included in the above classifications, who took the course prescribed for normal freshmen. Regular gymnasium classes were conducted twice each week as required by the curriculum. These classes were given in four sections, each containing from 100 to 150 students. During the first six weeks of the school year, the work consisted of a course of lectures on personal hygiene, with a written examination at the end of the course. The remainder of the year was devoted to regular gymnasium class work, which included calisthenics, elementary apparatus drills, marching, class tactics, running, and athletic games. All students taking this course are required to pass eight efficiency tests for credit in gymnasium. Three of these tests are required in the first semester, and five in the second. The former are in swimming, bar vaulting, and set exercises on apparatus; the latter, in life saving, running, jumping, and apparatus work. The standards required in all the exercises are such that the average student, with the training given, can meet them, and are the results of careful study by the Department.

Corrective gymnastics.—All defectives are grouped according to condition, and are under the direction of an instructor, who directs the execution of corrective exercises, as indicated. These defectives are excused from the qualifications required of other students, but are required to come three times each week for work. All students whose petitions are granted for excuse from military drill on account of physical disability are assigned to one of these classes.

Intramural sports.—Interclass contests were held in basketball and baseball, and intercollege contests were held in football, basketball, baseball, handball, hockey, and swimming. Interfraternity competition was held in basketball, baseball, handball, and swimming. It is estimated that 150 men participated in intramural football, 460 in basketball, 450 in base-

ball, 75 in swimming, 75 in handball, and 40 in hockey, making a total of 1,250.

NOTE: it is understood that the total number does not represent that many individual students, but includes some duplications, i.e., some students participating in more than one sport.

Miscellaneous sports and physical activities.—1. Special classes were held in elementary, intermediate, and advanced gymnastics, and all men registered in these classes (about 60 students) participated in the Northwestern Gymnastic Meet on March 20, 1915. This meet is held annually at the University, and is composed of gymnastic teams from colleges, normal schools, high schools, Y. M. C. A.'s, Turnvereins, settlement houses, etc., from various parts of the state.

2. Sigma Delta Psi, the honorary athletic fraternity, is well established at Minnesota. The candidates enrolled for the society during the year numbered 180 students. A total of 323 senior and 152 junior qualifications were made in ten try-outs held during the year.

3. The department had an organized Leader's Corps as in former years. The work consisted of coaching leaders for elementary apparatus work. Such of these leaders as cared to follow up the work were given the opportunity to register for advanced leadership with credit, and will be placed in charge of classes under supervision of a member of the departmental staff.

4. The Director of the Department is western member of the National Collegiate Basket Ball Rules Committee and compiles all collegiate basketball statistics in his territory of ten states, besides collecting photographs of teams, lists of names of captains, managers, and coaches, and writing up the Middle West and Conference season for publication in the basketball Guide.

5. This department has been active in the promotion of an intercollegiate basketball conference, for interpretation of rules, making of schedules and selecting officials for games and the Director of the Department is secretary of the association.

6. A state basketball organization patterned after that of the Western Conference is promoted by this department and the Director is President of this organization. Our annual meeting was held on Saturday of Thanksgiving week, and was attended by twelve college representatives and fourteen officials, and is growing each year.

7. Classes in Social Dancing were held under the auspices of the department. 304 men were enrolled in beginners and advanced classes. Instruction was given by Mr. Timothy Arenson, a junior in the College of Engineering and an expert dancer and teacher. Classes were held from November until April and the cost of the course was two dollars for each student. Half of the net receipts (\$256.33) was donated to the Men's Union, and the balance was paid to Mr. Arenson for his services. The purpose of the work was to standardize social dancing on the campus by teaching correct form in the execution of various dances.

8. During the second semester there was conducted, conjointly with the Department of Physical Education for Women, a short course in Playground Training. Classes in theoretical and practical work were conducted on Tuesdays and Thursdays of each week (double periods) for sixteen weeks. A staff of sixteen lecturers and instructors, half of whom were from the University faculty, gave gratuitous service. About eighty students, including several public school teachers, were enrolled for the course, and at the close about sixty of the pupils received certificates for regular attendance throughout the course.

Intercollegiate competition.—Competition in intercollegiate athletics in the University is of two kinds; one, including football, baseball, basketball, and track, is carried on by the Athletic Association without connection with this department. The other is promoted by this department, but is financed by the Athletic Association, and includes gymnastics, wrestling, and swimming. An effort was made to have soccer established on the same basis but without success.

1. The University gymnastic team competed in the Northwestern Gymnastic Meet, and also in the Western Intercollegiate Meet. The team did not finish first in either meet, but Mr. J. C. West, the captain of the University team, was awarded the individual honors in the intercollegiate contest.

2. The wrestling team participated in an All-University tournament, held in five different weights, and also competed in the Western Intercollegiate Wrestling meet at Lincoln, Nebraska, in April.

3. Swimming was taken up as an intercollegiate sport for the first time. The team had a meet with the Y. M. C. A. of St. Paul and later participated in the Western Intercollegiate meet at Evanston.

New features added during the year.—1. Introduction of swimming as an intercollegiate sport as above mentioned.

2. Organization of classes in social dancing also mentioned above.

3. Playground Training Course.

Recommendations for the future.—In view of the physical well being of all men in the University, two urgent needs are again called to your attention: (a) A new gymnasium; (b) More ground for intra-mural sports.

1. The present quarters, used conjointly with the Military Department, which has an enrollment of sixteen hundred and fifty-four (1654) cadets, and a schedule calling for twenty-nine and one half (29½) hours use of the building each week for drill purposes, are antiquated and wholly inadequate for the work of the Department of Physical Education, the privileges of which are used by more than fifteen hundred (1500) students. The demand for lockers is much greater than the supply on hand. The crowded condition of the handball courts and the special and main exercising rooms, at certain periods of the day, during the winter months, is not conducive to the best sanitation, and large numbers of students who desire to exercise in the gymnasium are prevented from doing so because of the above mentioned conditions.

2. More ground for intra-mural sports must be provided soon, or the progress which is being made in this most desirable feature of physical education may be arrested. At the present time, practically all of the outdoor games are played on the parade grounds, *when not in use by the Military Department*, and on the east river flats, by courtesy of the Minneapolis Park Board.

Respectfully submitted,

L. J. COOKE, *Director*

DEPARTMENT OF PHYSICAL EDUCATION FOR WOMEN

To the President of the University:

SIR: I submit herewith my report for the year 1914-1915:

The work of the department has been essentially the same as for the previous year. Conditions in the Armory have prevented any marked expansion but there has been a wholesome growth of interest in elective classes. During the year the new gymnasium building has been in process of construction and much time has been given to the planning of its administration and equipment.

Physical examinations and consultations.—1. Full examinations were given to the following groups of students at about the time of entrance in the autumn:

a. In all colleges, 520 examinations. By a slight rearrangement of plans the number examined was increased by more than a hundred over that of a year ago without increase in expense. Also, a routine blood test and blood pressure test were added.

b. In the School of Agriculture, 105 examinations.

c. At the Crookston School, examinations of all the newly entering students.

d. For the first time, and at the request of the College of Education, examination was made of candidates for teachers' certificates. About 150 students were examined with the aid of an outside physician, and a report was sent to the College of Education on the physical condition of each girl.

e. Medical and physical re-examination was made in the spring by the regular staff with the assistance of the nurse at Sanford Hall, in the case of all students in the required and elective classes, 178 in all.

2. Required health consultations.

a. All applicants for a reduction of program on the basis of their physical condition received careful consideration, and examination where necessary.

b. Practically all sophomores and juniors were called in for routine health interviews during the year; the number reached 387.

c. A large number of interviews were held with students of the required classes to discuss such unwholesome tendencies as were disclosed by the weekly hygiene records which they submitted.

3. The work of the nurse at Sanford Hall showed an encouraging development during the year in that she was consulted more often by students in the boarding houses, and was sent for more often by householders to give care to their young women. The total number of calls and consultations which she had at Sanford Hall was 495 for the first semester, and 681 for the second semester; at the boarding houses, 25 for the first semester and 62 for the second semester.

Courses in hygiene.—The same courses were offered as were offered in 1913-14.

Exercise.—1. Required. Newly entering students were held for regular class work on the same basis as in past years, those being held whose physical examinations showed them to be in less than first-class condition. There were 184 girls registered on the main campus and 41 at the Agricultural College. Of these girls, 55 were also registered for elective classes.

2. Elective. Groups were organized in advanced gymnastics, social dancing, gymnastic dancing, basketball, tennis, baseball, swimming, and fencing, with the following enrollment:

	1914-15	1913-14
Advanced gymnastics	37	40
Social dancing	95	95
Gymnastic dancing	50	44
Basketball	94	77
Tennis	33	39
Baseball	43	*
Swimming	144	136
Fencing	14	*
Total enrollment.....	510	431

* Not organized.

The actual number of individuals who registered for elective exercise was 365, a gratifyingly large proportion of the total enrollment of 510. The regularity of attendance in swimming was better than ever before; the average number swimming each Thursday was 33, as against 24 last year, and 28 the year previous.

Contests.—The report of the Committee on Intra-Mural Sports deals with details of the contests held by this department and the Woman's Athletic Association. The coöperation of the Woman's Athletic Association has proved increasingly valuable in developing enthusiasm for healthful exercise. A "head" for each sport has devoted herself to stimulating interest in her own field of activity. Walking has been organized and recognized by the award of a point toward the athletic seal, and an official representative from the Agricultural College has been appointed for the sake of unifying athletic interest on that campus.

A Field Day for all members of the Association was held in the spring. This was the first attempt at an open-air festival which should mark the closing of the year's activities, and it called forth a splendidly enthusiastic response.

Officers employed.—The staff of the department has consisted of a director, one instructor, a secretary and pianist, an assistant who has taught six hours a week, and an auxiliary staff of three women physicians who assisted in the examination of newly entering college students.

Recommendations.—1. It is essential that the land adjoining the new gymnasium should be graded and fenced so that it will be adapted for use as a playground. In the autumn and spring, whenever the weather has permitted, all required classes and the elective games have been held outdoors on Northrop Field. An attempt has already been made to use the land adjoining the new gymnasium in the same way, but the unevenness of the ground, the danger of losing balls over the river bank, the danger of losing much game equipment by theft, and the danger of breaking the lower windows of the adjoining buildings all combine to reduce the value of this otherwise very promising field. The open air is, of course, universally conceded to give the best conditions for exercise, and I would urgently recommend that this field be developed so as to serve the purpose of a girls' playground.

2. I would repeat the recommendation made in my report of 1913-14 concerning the organization of a normal course in physical education in this university. The basic scientific and educational training could well be carried on in the departments which are equipped for that work, while the theoretical and practical courses in exercise and the supervision of practice teaching, for the women, could be handled by this department, using the equipment of the new gymnasium and a somewhat increased staff. Both from the standpoint of offering an opportunity within this state for young people to receive thoro training in this specialty, and from the standpoint of providing well-trained teachers for the schools of the state, I believe there is real need for the careful organization of such a course.

Respectfully submitted,

J. ANNA NORRIS, *Director*

COMMITTEE ON PHYSICAL EDUCATION AND INTRAMURAL SPORTS

To the President of the University:

SIR: I have the honor to report as follows on the work of the Committee on Physical Education and Intramural Sports. Reports on Physical Education for men and women will be submitted separately by Doctors Cooke and Norris. This report will deal only with intramural sports during the year ending August 1, 1915.

Football.—For the first time in the history of the University a regular schedule of football games between colleges was proposed. Eight teams were entered from the Colleges of Agriculture, Dentistry, Engineering, Law, Medicine, Mining, Pharmacy, and Science, Literature, and the Arts. The games were played according to the elimination system, the first round being won by the teams from the Agricultural, Mines, Engineering, and Law Colleges. In the semi-final round, the Laws were eliminated by the Mines team by a score of 7 to 0, and the Engineers won from the team from the College of Agriculture by a score of 6 to 0. The final game of the series was played on the Parade Grounds by the teams representing the School of Mines and the College of Engineering, November 14, 1914, the day of the Wisconsin game. This game, a splendid one, witnessed by about five hundred people, was won by the Engineers by a score of 15 to 0.

In recognition of the work of their team the students of the Engineering College presented each player with a sweater in University colors. In this initial year of inter-college football, 150 men competed—a very encouraging showing.

Basket ball.—In basket ball, inter-class, inter-college, and inter-fraternity tournaments were played during the year. A series of class games was first played on the percentage, or "Round Robin," system to determine the class championship of each college. In this series twenty-one classes were entered from five colleges as follows: Academic, 4; Dentistry, 3; Engineering, 5; Law, 3; Medicine, 4; Pharmacy, 2. One hundred eighty men competed. The College of Agriculture and the School of Mines did not hold inter-class tournaments. From the various class teams, college teams were selected for an inter-college series. In this series 27 games were played by teams representing 8 colleges, with 80 men competing. Good spirit was shown in this tournament, the quality of ball played was up to the standard of former years if not superior. The winning of this series by the College of Law gave them the University championship for the second successive year. Members of the team were awarded jerseys in University colors.

The inter-fraternity basket ball tournament was played by dividing the entrants into four divisions, each division comprising five fraternities. The winners of the various divisions then played for the championship,

which was won by the D.K.E. team from the Phi Psi team by a score of 15 to 11. About 200 men competed in the tournament.

Baseball.—An inter-college baseball tournament was played during the month of May, 1915. Eight colleges entered teams and the interest was keen. The series was played on the percentage basis, which gave each team a schedule of seven games. The games were witnessed by crowds numbering up to 500. The series ended in a tie between the Colleges of Agriculture and the College of Medicine. Both teams were awarded jerseys by the Intramural Committee. One hundred fifty men competed in the inter-college games. Twenty fraternities played a series in baseball for the inter-fraternity championship. It is estimated that 300 men participated either as regulars or substitutes. The inter-fraternity series ended in an unfinished game between the Phi Psi and A.T.O. teams, which left the championship in doubt.

Swimming.—The second year of inter-college swimming brought out a field of five colleges with seventy-five men entered. The team from the College of Engineering won for the second successive year. If the Engineers succeed in winning the meet of the present year, they will have won permanent possession of the "Deans' Cup," which has been such a strong factor in awakening interest in intramural swimming. The swimming teams finished in the following order: Engineering, Agriculture, Academic, Medical, and Law. With the advantages of a new tank at the College of Agriculture, the contest this year promises to be a hard one. The annual inter-fraternity relay race which was swum the same day was won by the Alpha Delt team. This gives them permanent possession of the fraternity relay cup.

Handball.—The annual all-University handball tournament was played, in which 35 men were entered in singles and 30 in doubles. The singles championship was won by Sam Aronson of the School of Mines. The doubles championship was won by Aronson of the School of Mines and L. R. Peterson of the College of Law.

Following this series, the first inter-college handball tournament was played. Teams of four men each were entered from seven colleges. This tournament was won by the team from the School of Mines with the following men: Aronson, Christenson, Kulberg, and Nord. In all it is estimated that 40 men competed in the inter-college tournament either in the elimination trials or on the college teams. Handball tournaments were also played by the academic and professional fraternities, the academic fraternity series being won by the team representing Phi Sigma Kappa and the tournament of the professional fraternities being won by the team representing A.K.K. It is estimated that 75 men competed in intramural handball.

Hockey.—The serious effort which was made during the winter of 1914-15 to introduce inter-college hockey was not an unqualified success, if judged by the results of the first season's play alone. Four colleges entered teams and forty men competed. In the first round the teams from the Colleges of Agriculture and Engineering played to a scoreless tie

on the campus rink. Later the Agriculture team was beaten by the Engineers at the Hippodrome by a score of 1 to 0. In the same round the Miners defeated the Academics on the Campus rink by a score of 1 to 0. In the final game, played on the Hippodrome rink between the Miners and Engineers, the former team won by a 2 to 0 score, making them champions in hockey and giving them possession for one year of the "Campus Club Cup." This cup, which was donated by members of the Campus Club, is doing a good work for hockey. The influence of trophies given by members of the faculty is particularly good, as it shows the students that the faculty is interested in their play. As an illustration of the relative strength of the four college teams entered, may be cited the fact that in no game did either team score in the regular periods of play. In every case, the scores were made in an overtime period agreed upon by the teams competing.

The prospects for intramural hockey are very bright as are also the prospects for figure skating and all ice games. In all probability the coming winter of 1915-16 will see tournaments in inter-fraternity as well as inter-college hockey.

Tennis.—An extra effort has been made in the year just past to improve the condition of the courts and eliminate some of the abuses in the use of the courts by people outside of the University. The secretary of the tennis association reports that the courts were in better condition during the season just past than they have been in former years. This is largely due to the fact that one man has been made responsible for their upkeep. The increase in tennis over the year previous has been about twenty per cent among the men of the Main Campus. On the campus of the Agricultural College, the four courts built last year were in use practically continuously during all playing weather. The indications are, not only at the University, but throughout the state, that tennis will steadily increase in popularity.

Track.—An effort is being made to have a well-rounded track team developed from each college for an inter-college championship meet, but there is a lack of enthusiasm among the students of some of the colleges that prevents a successful meet of that kind. In the all-University meet, in which points are given according to colleges, and the cross-country and hare and hound runs, etc., 165 men have competed in the past year.

REPORT ON CONTESTS HELD BY THE WOMEN STUDENTS

Tennis.—Two tennis tournaments have been held on the main Campus, one in the autumn and one in the spring under the auspices of the Woman's Athletic Association, and a spring tournament was organized on the Agricultural College campus by the Agricultural College girls. The entries of these three tournaments approximated one hundred students. A silver cup was offered by Jacobs, for the autumn tournament, and one by Weld for the spring tournament, on the main campus. These cups are kept by any students who win the tournament two years in succession ;

otherwise, they are held in the possession of the winning girl until the corresponding tournament of the next year. The tournament on the Agricultural College campus was the first that has been held there, and no official recognition of it was taken by the Woman's Athletic Association.

Basketball.—The Woman's Athletic Association held a basketball tournament from March 5 to March 27, 1915. The schedule included ten preliminary games, representing five teams: the first, freshman; the second, freshman; the first, sophomore; the second, sophomore, and senior teams.

Public games were played on the evening of March 27. A demonstration game by two picked teams, one from the freshman and junior classes, the other from sophomore and senior classes, and a championship game between the sophomore and seniors, the sophomores winning the championship for the year. Their names were engraved on a silver cup presented by Hudson.

Ninety-four girls were enrolled for basketball practice during the winter. The reason which may be suggested for the lack of interest among the juniors is that they were suffering from too much success. They won the championship game as freshmen, and again as sophomores, and seemed to be resting on their laurels.

Skating.—The girls showed great interest in skating, but the ice rink was in such poor condition that it was impossible for them to do much with it. The liveliness of their interest, however, would seem to indicate that they would make vigorous response in attendance if a good rink were provided.

Swimming.—More interest was evinced in swimming than in either of the two previous years. The Athletic Association held informal contests from time to time for the purpose of stimulating the girls to greater effort for efficiency, and finally, held a swimming meet April 15. Altho 144 girls had been registered for swimming during the winter, only six took part in the contest. There were twelve possible events in the contest, out of which seven were elected by each contestant. Two of the records of the past two years were bettered. The 20-yard dash side stroke was made in $17\frac{1}{5}$ seconds against $19\frac{2}{5}$ seconds last year, and the record for the plunge for distance was 39 feet 4 inches against 35 feet 2 inches last year.

Gymnastic contest.—Seventy-four girls, representing the four sections in freshmen gymnastics, held a contest under the direction of this department on the evening of March 30. The program included marching and running, gymnastic dancing, and a game. The attendance was voluntary, and the audience consisted of guests of the students, very largely.

Baseball.—This is the first year that baseball has been organized as a separate sport. Forty-three girls were enrolled for practice. A tournament was held at the end of the season, the last game of which was played on Field Day.

Field day.—Date May 22; place, playground on river bank, opposite Elliot Hospital; program, folk, esthetic and couple dancing, in costume,

a baseball game between the freshmen, and a selected upperclass team, the German backball game between two freshmen sections in required physical training, a cricket game between two teams picked from the advance class in physical training.

The Field Day was held by this department and the Woman's Athletic Association, and is the first which has been attempted. Considering the obstacles which had to be overcome in the shape of cold, blustering weather, which must have discouraged many girls, and a lack of police protection, which resulted in annoyance by a large group of youngsters, the Field Day was an auspicious beginning for this sort of outdoor activity. More than one hundred girls were present, and the spirit of meriment and good sportsmanship was notable. The day ended in a picnic lunch on the river bank.

Organization changes.—Certain developments in the Woman's Athletic Association were made during the year which are favorable to further growth in interest in athletics. A student head for each sport was appointed by the president, for the purpose of arousing interest in the sport, and helping with the conduct of match games or other contests. Hiking was added to the list of recognized sports, and it was voted to award one point toward the Athletic Seal to each girl who walked 100 miles during the year, in walks of not less than five miles each.

It was decided to have an official representative from the Agricultural College for the purpose of unifying and concentrating the athletic effort of the Agricultural College girls. It has been decided to award one half as many points toward the Athletic Seal to the winners of contests which are held on the Agricultural College Campus as are awarded for all-University contests.

More interest than ever before has been shown in attendance in athletic practice of various sorts, and with the facilities offered by the new gymnasium, we hope that there will be a marked increase in the interest of the students.

Respectfully submitted,

J. ANNA NORRIS, *Secretary*

NOTES AND RECOMMENDATIONS

The fund of \$500 presented to the Committee by the Athletic Board is exhausted and the source of revenue for the carrying on of the work of the Committee is always in doubt. A great deal of good could be done if an adequate sum could be appropriated for intramural sports.

For football, at least one good field is necessary on the Main Campus. The College of Agriculture has the same need. Possibly a field located somewhere on the inter-campus line would relieve the congestion for a time. During the past year, most of our inter-college games have been taken to park board property along the river bank. This is undesirable from almost any angle. The main objection, however, is the inaccessibility of the grounds. To make the games worth while for the

players and students, they must be played where every student who so desires can reach them easily. The parade ground, the only field open for intramural football, is in such bad shape due to pebbles and rough ground, that it has been considered dangerous to play games there. Furthermore, the parade is held two days in the week by the Military Department and the Department of Physical Education uses it three afternoons of each week for classes in soccer. It is evident that if any success is made of intramural football, some provision must necessarily be made to take care of it.

In baseball, the probabilities are that with the two diamonds laid out on the parade ground and the occasional use of the diamond on Northrop Field, the games may be handled if only inter-college games are played. However, in view of the fact that such a large proportion of men like to play baseball, it will probably be thought advisable to play inter-class games as well. This would necessitate more room than is now available. A good diamond on the Agricultural campus which would take care of the class games and also a part of the college games in which the Agricultural team was playing, would help the sport greatly. I believe it advisable to play many inter-college games in all lines of sport, on the Agricultural campus.

The building of the new Gymnasium at the State Farm will help the game of basketball. It will give the Agricultural College an opportunity to play an inter-class series, which it has heretofore been unable to do, and it should provide also for some of the college games as previously suggested.

The game of handball has prospered in spite of handicaps. Our courts are small and poorly ventilated and the number is not sufficient by half to take care of the men who really want to play. With the exception of tennis, probably more men use the game of handball for their exercise, than any other game. A good percentage of the faculty play handball regularly. The popularity of this game could be increased greatly by the construction of outdoor courts and the addition of two or four indoor courts of proper size and equipment.

Swimming has increased in popularity rapidly in the past three years. The University needs a well-lighted, well-ventilated pool with provisions for water purification and a proper balcony for spectators. These improvements can not be expected on the Main Campus for some time. It would be advisable, I believe, to hold the annual swimming meet in the new tank at the Agricultural College.

Hockey is a new intramural sport which promises to become justly popular. The University is fortunate in having many expert figure skaters among its faculty and some of the best hockey players in the country among its students. Apparently all that is needed to promote the sport, both of hockey and of figure skating, is a proper sheet of ice.

In closing, I should like to make one further recommendation: that is, that the University should employ an expert in the building and maintenance of tennis courts, baseball fields, skating rinks, football fields, etc.,

THE PRESIDENT'S REPORT

and that such an employe be required to devote his time to the maintenance of these fields for the use of the members of the University.

Respectfully submitted,

OTTO S. ZELNER,

Chairman, Committee on Physical Education and Intramural Sports

THE MILITARY DEPARTMENT

To the President of the University:

SIR: I submit herewith my report for the University year 1914-15:

Enrollment.—The number of cadets under instruction during the year was as follows:

College of Science, Literature, and the Arts.....	450
College of Engineering.....	227
College of Chemistry.....	24
College of Agriculture	281
School of Agriculture	322

Total..... 1304

Encampment.—The annual encampment of the University was held at Fort Snelling, Minnesota, from September 8 to 16, 1914. The attendance was 239. The School of Agriculture encampment, from October 1 to 6, 1914, was attended by 154 cadets.

Inspection.—The annual inspection for the War Department was made by Major Andrew Moses, General Staff U. S. Army, on May 21. The following remarks from the inspector's report show that the Military Department had a most successful year:

"I called upon, and was very cordially received, by President George E. Vincent, who was present during most of the inspection. On account of rain, the inspection in the morning was confined to regimental inspection, transmitting messages by the signal detachment and first aid drill by the Hospital Corps. These exercises were held in the Armory."

Regimental inspection.—Arms and equipment generally in excellent condition; uniforms in good condition and generally well-fitting; gloves clean and not torn. Questioning many cadets demonstrated that they are well-instructed in the nomenclature, use, and care of the rifle, and target practice. The signal detachment correctly transmitted messages by flag (wig-wag) and semaphore. The Hospital Corps dressed various gunshot wounds and other injuries, treatment of patient apparently drowned, and first-aid work generally. The work of the Hospital Corps was generally excellent—only one improper treatment observed—and the members generally showed that they had had thoro training. Due to the muddy conditions of the grounds and rainy condition generally, the program scheduled at Fort Snelling for the afternoon had to be called off. It was contemplated that a problem would be participated in by the corps of both the College of St. Thomas and of the University of Minnesota, with Battery F, 1st F. A. Minn. National Guard, which is part of the University cadet corps. This was unfortunately prevented by the continued rains. The afternoon work on the University Campus was as follows: regimental review; battalion and company drills in close and extended order; bayonet exercises; sending messages by semaphore, wig-

wag and battle-field signals; battalion problem illustrating the advance preceding the Fire-fight, and a battalion problem illustrating deployments and mechanism of the Fire-fight; patrolling; sighting drills and position and aiming drills.

"The review was well executed, marching and manual, very good, discipline in ranks, excellent. The close and extended drills were very good; bayonet exercises, excellent. Especial attention had been given to the extended order drills and field exercises. The problems were well executed and the officers and noncommissioned officers handled their commands very well. The instruction in patrolling and field exercises seems to have been excellent, and the showing made was very satisfactory in every respect.

"The President and the Board of Regents are doing everything possible to advance the efficiency of the military department. They have adopted the recommendation of the Commandant, making attendance compulsory for all cadets. This will begin with the session 1915-16. Steps have also been taken towards requiring military instruction of the students of all the colleges of the University. Heretofore, students in the colleges of Dentistry, Mines, and Pharmacy have been excused.

"The condition of the military department is very satisfactory. Lieut. Lentz deserves credit for substantial progress made during the past year in carrying on the work of the department, which was made possible by the enthusiastic support of the University authorities.

ANDREW MOSES, *Major, General Staff, Inspector*"

Classification and honor graduate.—The University was again placed in the distinguished class and Mr. Theron G. Methven, Academic '15, has been reported to the War Department as Honor Graduate.

Recommendations.—The need of an adequate armory was pointed out in last year's report. In my opinion the present armory has sufficient floor space but it is so cut up by partitions and it is used for so many purposes other than those by the Military Department that a great portion of the building can not be used for military instruction. I recommend a new armory built for strictly military purposes or remodeling the present armory in a manner that will make the maximum floor space available for the purposes of military instruction.

Respectfully submitted,

BERNARD LENTZ,

First Lieutenant 21st Infantry, Prof. Military Science and Tactics

THE GEOLOGICAL SURVEY

To the President of the University:

SIR: I herewith submit my report as Director for 1914-1915.

Organization and coöperation.—The Minnesota Geological Survey was allotted \$16,500 for the biennial period beginning August 1, 1915. The arrangement for coöperation with the United States Geological Survey, as outlined in the report of the Director for 1911-12, and published in the President's report of the University of Minnesota for that year, was renewed for the year ended August 1, 1915. Arrangements have been made also for coöperation during the year ending August 1, 1916. According to this plan each organization shares equally the cost of field work and the publication of reports. The responsibility and credit for these reports are shared equally by the two bureaus and the joint reports are so announced on their title pages. Parts of editions are announced as Minnesota publications in coöperation with the Federal Survey, and parts are announced as United States Geological Survey publications in coöperation with the University. This plan has many advantages, for the fund available is increased, and moreover, the State Geological Survey has the advantage of the criticism of specialists and map and manuscript editors of the Federal Survey. The arrangement is to be terminated when unsatisfactory to either bureau, and when desirable publications may be issued independently by the State.

The Minnesota Geological Survey is coöperating also with the Bureau of Mines, Washington, D. C., in the investigation of peats in Minnesota, and coöperation has been continued with the School of Mines Experiment Station and with the School of Chemistry of the University of Minnesota in the matter of burning tests of clay and other tests. Valuable assistance has been given this Survey, also, by Professor F. J. Alway and other members of the Division of Soils of the Department of Agriculture, and duplicate samples of peats collected by the Survey have been supplied to the Bureau of Soils.

Topographic work.—For several years the State Drainage Commission has coöperated with the United States Geological Survey in making topographic maps. The work has been done by the federal bureau, the two organizations sharing equally the expense. With few exceptions Minnesota has a smaller percentage of its area topographically surveyed than other states in the Union. It is vitally important that the appropriation for this work be restored.

Field work.—During the past field season, from about June 15 to October 15, 1915, the following work was carried on in coöperation with the United States Geological Survey: (1) an investigation of the surface formations of Minnesota with special reference to the soils, this work to be completed in 1915; (2) an investigation of the geology and ore deposits of the Cuyuna Range; field work in progress; (3) the geology

of the area in the vicinity of Duluth was investigated and portions of the area between Pigeon Point and Duluth, particularly those portions that contain magnetic iron ores; (4) an investigation of the peat resources of Minnesota, in coöperation with the United States Geological Survey and the United States Bureau of Mines; field work completed December 31, 1915; (5) a relief model of an area including the Twin Cities.

Other services of the survey.—In addition to the more comprehensive investigations outlined above, many inquiries were received concerning the geological structure in various places by those who contemplated drilling for water or ore, and numerous materials forwarded from various localities within the State were examined to determine their availability for various economic purposes. It is gratifying to note that requests for information of this kind are increasing. It is hoped that the people of the state will make the fullest use of this service of the State Geological Survey.

Delays in issuing reports.—It is a matter of regret that, owing to conditions not all of which we can control, the Survey has not been able to issue more reports and to issue them more promptly. Comprehensive investigations require time, and the study and assimilation of data and the writing of a full report is a slow and tedious process. These reports, besides the text, generally include many text figures and other illustrations; some have colored maps. The editing, assembling, and particularly the engraving of colored maps involves much slow and painstaking work. Moreover, some of the final reports of certain investigators will doubtless have to await their turn with editors, map critics, and engravers. To prevent loss by delaying the use of information of economic value, we have undertaken to issue fairly comprehensive preliminary reports independent of other bureaus coöperating. In 1915 the Survey published a preliminary bulletin treating the occurrence and uses of clays in Minnesota, and a bulletin on the surface formations and agricultural conditions of northwestern Minnesota with a colored map of the northwestern quarter of the State, showing the surface formations with special reference to soils. On a following page these bulletins are listed, together with the prices at which they are sold.

Detailed report of surveys.—1. The investigation of the surface formations of Minnesota with special reference to soils has been continued with Mr. Frank Leverett of the United States Geological Survey in charge. In this work he has been assisted in the field by Dr. F. W. Sardeson. The results of his investigation for the northwestern quarter of the state are now published and the field work for the remainder of the State has been completed. This investigation will without doubt be of great aid to farmers and particularly to colonists, and the results will be available to the Division of Soils for their more detailed investigations. Mr. Leverett prepared, also, to accompany the map of the northwest quarter of Minnesota, a bulletin on the surface formations with special reference to the soils. Mr. U. G. Purssell of the United States Weather Bureau

prepared, without cost to the State, a chapter for this bulletin on the climate and weather conditions of Minnesota.

2. Mr. F. F. Grout has completed a final report on the occurrence and uses of clays in Minnesota, and the latter is now in press. His field season was spent in a study of the geology of the Duluth gabbro massive. The Duluth gabbro is a crescent-shaped area of rock extending from Duluth northeastward along the shore of Lake Superior to the near Canadian boundary. Along the northern boundary of the gabbro in Cook and Lake counties are scattered segregations of magnetic iron ore. These deposits have attracted the attention of mining men for many years, but the properties have not been developed. All of the ore in them is more or less titaniferous and ores with a high titanium content have been considered objectionable for various reasons. Many of the reported analyses of the deposits show that the iron content is too low for working with the ordinary methods. The School of Mines Experiment Station is engaged in the study of some of the problems of concentration that must be solved before these deposits can be of much value. The investigation of the area including these deposits was in charge of Mr. F. F. Grout. Mr. T. M. Broderick, Mr. Howard Nelson, and Mr. M. G. Edwards served as geological assistants, and Mr. A. D. Levorsen and Mr. John Moga as compassmen and packers.

Mr. Grout was engaged in mapping areas not along the regular canoe route, while other members of his party worked on the deposits along the northern boundary of the gabbro. The party started from Ely and went east along the waterways, close to the Canadian boundary, then south to Lake Superior. The work consisted of: (1) magnetic surveys at regular intervals to define the limits of the deposits; (2) study of petrographical relationships, particularly those having a bearing on the economic problems; (3) sampling the outcrops of the ore bodies. These samples are now being tested at the School of Mines Experiment Station.

3. Mr. A. W. Johnston was engaged throughout the season in the examination of mine records and underground workings of the Cuyuna Range and in the mapping of its surface geology. Mr. E. C. Harder of the United States Geological Survey cooperated in this work. The investigations in this important field are being pushed vigorously but the quantity of data obtained is enormous and the work on this district will not be finished this year.

4. Mr. E. K. Soper was engaged from June 20 to August 30 investigating the peat and marl deposits of Minnesota. In this work he was associated with Dr. C. A. Davis of the United States Bureau of Mines. From July 15 until September 20 Mr. P. G. Cowin served as assistant.

5. From July 24 to September 3 Mr. C. J. Posey was engaged in studying the data of selected stations of the United States Voluntary Weather Observers of the State for the purpose of determining the progress of the average daily temperatures for the year, and more especially the determining of the dates in the spring and in the fall when the growing temperature is reached. The results have already been carried far enough

to show that so far as air temperatures are concerned the growing season in the spring begins from twenty to thirty days earlier than the average date of the last killing frost.

Publications.—During the past year the following publications have been issued by the Survey and are for sale by the Librarian of the University.

Bulletin No. 11. 1914. *Preliminary report on the clays and shales of Minnesota.* By F. F. Grout and E. K. Soper. 8vo, 172 p., illus., pl., charts. Bd. \$1.00; unbd., \$0.75; postage 7 cents additional.

Bulletin No. 12. 1915. *Surface formations and agricultural conditions of northwestern Minnesota.* By F. Leverett. \$0.25; postage 5 cents additional.

Accompanying *Bulletin No. 12* is a colored map of the northwest quarter of the State showing its surface formations with particular reference to the soils. Arrangements have been made with the Topographic Engraving Company of Washington, who printed this map for the Survey, to supply them in quantities at low cost to county organizations, immigration bureaus, or others interested in furthering the settlement of the state. The cost of the field work and of making the plates has already been met by the Survey. It is hoped that more extensive use will be made of the privilege of purchasing these maps at cost of printing.

Respectfully submitted,

W. H. EMMONS, *Director*

THE BOTANICAL SURVEY

To the President of the University:

STR: I beg to submit the following report of the work of the Botanical Survey during the year 1914-15.

Field work.—The field seasons of 1914 and 1915 were spent in the study of the origin and formation of the swamps and bogs of the state, in continuance of the investigations carried on during the four years preceding. In 1914, the summer was spent by Professor Bergman and Mr. Stallard in an intensive study of the successions of plant communities in a representative area of the peat-bog region. The area selected was west and north of Leech Lake in Hubbard and Cass counties. During 1915, the results of this intensive study were extended and confirmed through Beltrami, Koochching, Cass, Hubbard, and Crow Wing counties. The investigations of the six field seasons from 1910-1915 have made available a large mass of valuable data, which are now being prepared for publication. In the greenhouse investigation of the factors involved, original and illuminating results have been obtained with respect to the oxygen content of swamp and bog waters, and the response of plants to controlled aeration. During the next two years, it is planned to devote the major portion of the field work to the study of "indicator" plants, especially for acid soils, and to the sampling of peat deposits in order to determine the genesis of the different kinds of peat.

Publications.—The lapse of available funds has caused a temporary cessation of the publishing activities of the Survey. The only publication for 1914-15 has been part 3 of volume IV of *Minnesota Botanical Studies*, containing 147 pages. A recent appropriation makes it possible to publish part 4, which will complete volume IV with a total of 500 pages. The manuscript of *Minnesota Plant Galls* is awaiting publication, and *Minnesota Honey Plants* is practically ready. The first Field Report, which will be entitled *Minnesota Swamps and Bogs*, will be completed during the winter, and should be published promptly, as a basis for much of the work done by other divisions.

The method of distributing Survey publications was changed by the Regents in 1914. Formerly, all bulletins and reports were furnished free to residents of Minnesota. Hereafter, all copies will be sold at a slight advance upon the cost of production, except those needed to maintain the exchange relations of the Survey. The actual distribution of the publications is now in the hands of the University Librarian, with a decided gain in both economy and efficiency. In spite of the increase in the price of all the Survey publications, the demand for them continues strong. This is especially true of the more popular bulletins issued as *Minnesota Plant Studies*. Of the five numbers published, four are completely out of print, namely, *Guide to Spring Flowers*, *Guide to Trees and Shrubs*, *Guide to Ferns*, and *Minnesota Mushrooms*. There has also been a con-

stant call for *School Gardens and Greenhouses*, which was announced for publication, and then withheld because of lack of funds. It is hoped to create a revolving fund for *Plant Studies*, which will at once permit new and revised editions of the numbers most in demand.

Respectfully submitted,

FREDERIC E. CLEMENTS, *State Botanist*

THE UNIVERSITY LIBRARY

To the President of the University:

SIR: The progress made by the Library during the past year has in many respects been most gratifying. The rearrangement of the budget and the establishment of a "sets fund" has enabled us to purchase a number of very important and expensive sets which add very greatly to the strength of the whole Library. It would have been difficult, if not impossible, to have financed the purchase of some of these items on the old budget system.

In these, as in other similar purchases, we have been greatly hampered by the restrictions incident upon the war. For the greater part of the year the German market has been closed to us and we have outstanding large orders which the dealers have not been able to deliver. At the time this report is written it seems likely, however, that shipments can soon be made, an arrangement to this effect having been made by the Department of State.

The budget allowances for the year, including Law and Agriculture, were as follows:

Salaries	\$31,015.00
Books, periodicals, and binding.....	43,434.00
Supplies	500.00

The total expenditures for books, periodicals, and binding was \$46,774.83. Of this sum \$6,419.25 was charged to the budget of the Law School and \$5,437.83 to that of the Department of Agriculture.

The total number of books added was 22,406, of which 2,075 were accessioned at the Agricultural Library and 2,702 at the Law Library. This figure does not include the Monod Library of 2,259 volumes which, altho it was actually received at the Library before August 1, forms a part of the financial transactions of the year 1915-16. When the Librarian was in Paris in the summer of 1914, his attention was called to this library collected by Gabriel Monod, founder and editor of the *Revue Historique*. A brief examination of the lists convinced him of the desirability of securing this collection and on his return the lists were forwarded to us for more careful inspection. The Library proved to be one of singular interest. Its scope is broad, covering the whole field of French history and containing many books on literature, art, archaeology, and the political and social sciences. A large proportion of the books are of added interest by reason of the fact that they are presentation copies given by the authors to M. Monod. It is particularly rich in monograph material which, except in some such way as this, it would be impossible to secure.

Early in the year our agents in London, Paris, and Berlin, and later in Milan, were directed to purchase on our account significant material related to the war. Our available funds did not permit such extensive collection as is being attempted at Yale, but we shall be able to provide

for the future student an adequate means of interpreting the impact of the war on each of the great peoples involved.

Serials.—The number of serials carried on our subscription list was 1,191. In addition to this number several hundred others are received by gift and exchange. A large amount of time and money has been expended during the year in the completion of broken files. In many cases the volumes necessary for completion are only occasionally available and only to be found after diligent search. Decided progress has been made in our endeavors but much still remains to be done.

A duplicate catalog of all serials, except state and government documents, has been completed as a basis for the issue, we hope before many months, of a union list of serials available for use in the cities of Minneapolis and St. Paul. As soon as we can secure the lists of the other libraries active editorial work will be begun.

Binding.—During the year 5,812 volumes have been bound or rebound at a cost of \$4,470.90. The distribution according to material used in the binding is as follows:

Material	Number	Cost
Cloth, buckram, etc.....	3554	\$2573.00
Morocco	660	788.15
Cowhide, pigskin, sheep, etc.....	1082	1057.00
Boards	516	52.75

Reading room.—The total number of books loaned in the reading room is slightly lower than the very high record of the previous year, but this is offset by an increase in the number loaned for home use. The figures are:

	HOME USE	OVER NIGHT	READING ROOM
1913-14	14,614	15,615	131,326
1914-15	14,950	20,070	120,217

This represents, I believe, a tendency in the right direction for there can be no question that it is possible for the student to do better work in his room than in the crowd and inevitable confusion of the reading room. One of the most serious weaknesses of our University work, and it is a condition by no means confined to this institution, is that the student, while unquestionably reading many more pages than did the student of the last generation, does not acquire in the same degree the reading habit. A hasty scramble through ten or twenty pages of a book in the interim between classes is far less to the student's advantage than is a more leisurely perusal in his own room where he has an opportunity at least of getting something of the flavor of the volume.

The development of the extension work of the University has caused a marked increase in the number of books loaned to students outside the University. Requests come to us, not only from extension students, but from other citizens who wish information on all sorts of subjects. These calls are met whenever it is possible, our only requirement being that the borrower shall pay postage in both directions. We work in the closest

coöperation with the Public Library Commission which renders a similar service, each referring to the other requests that can be met by them.

The inter-campus car line has made it possible to increase the coöperation between the Agricultural Library and those on the main campus. We can generally put a desired book at the service of a student at the University Farm within an hour's time.

The appropriation of the last legislature of \$10,000 for remodeling the library building gives us an opportunity of alleviating in some degree the almost intolerable conditions that have prevailed in the reading room during the last few years. It is proposed to take over for the purposes of the Library the space used for so long as a chapel, erect a two floor stack on about a third of the floor area and use the remainder for a supplementary reading room. Books in which reading is required in connection with the large undergraduate courses will be placed in this room and a much simpler and more rapid system of loaning the books installed.

The changes to be made postpone but for a short time the necessity of a new library building. At our present rate of increase the new stack will be filled in about four years and it is hard to see where any further expansion is possible. The increased reading room capacity is fully needed to accommodate the students now on the campus and no provision can be made in the present building for the very essential consolidation of the libraries now in Folwell Hall and elsewhere with the main collection. For members of the faculty who wish to read in some degree of quiet, we have just two desks and we have no place at all where an advanced student can assemble his books about him and work more or less consecutively.

The inevitable should be faced immediately. The problem should be given careful study by a committee which should go into every phase of it with care. The Library building concerns the whole University, and when we build we should plan in reference to a carefully worked out policy of library development.

The catalog.—The number and character of the accessions of the year have required very nearly the full time of the cataloging staff and very little progress has been made on the uncataloged portion of the library. The serials have, however, been almost completed, the books in the Department of Physics have been cataloged, and some progress has been made in the field of German literature. Author entries for current accessions in the Agricultural library are now being filed in the main catalog.

To complete the catalog there remains, of the books owned by the University in October, 1907, when the present catalog was begun, those classed as Religion, Astronomy, Mathematics, Chemistry, Botany, Animal Biology, German Literature, the Classics, and some scattering books in other lines.

The record of the year's work of the department is as follows:

	Central catalog	Departmental catalogs
Titles cataloged	9102	3121
Volumes cataloged	14811	6375
Printed cards added	23997	8789
Typewritten cards added	11424	3257
Printed shelf list cards	3478	1066
Typewritten shelf list cards	3428	2243
Volumes added	6000	1339
Total volumes recorded	167213	

Exchanges.—The publications distributed during the year have been as follows:

Studies in the Social Sciences, 2, 3, 4, 5.

Studies in Engineering, 1, 2, 3.

Current Problems Series, 2, 3, 4, 5.

Bulletins of the Geological Survey, 11 and 12.

State Mining Experiment Station Bulletin 3.

Bulletins of the Agricultural Experiment Station 133, 138, 140-149.

Proceedings of the Second Annual Conference of Minnesota Municipalities, 1914.

President's Report, 1912-1913.

The war has caused an interruption of the service rendered by the Bureau of International Exchange and consequently we have been obliged to store until the end of the war parcels destined to certain of the belligerent countries. It has been difficult as well to increase the amount of material received in exchange. In many instances institutions, some as far removed from the actual conflict as South America, have temporarily ceased publication and in more, the personnel of the institution has been so reduced that it is impossible to arrange exchanges. Our continued publication stands to our credit, however, and when normal times come correspondence can be resumed.

Inter-library loans.—As in previous years the Library has added greatly to its strength as a working institution by loans from other libraries. The Minneapolis Public Library has in particular been most courteous and has rendered a very valuable service to us. Other institutions whose kindness has been no less are listed below with a statement of the number of volumes loaned by each:

University of Chicago	13
Columbia University	4
General Theological Seminary	3
Harvard College	8
John Crerar	2
Iowa University	2
Illinois University	15
Johns Hopkins	2
Leland Stanford	4

Library of Congress.....	12
McGill University	1
Massachusetts Historical Society	1
Nebraska University	4
Seabury Divinity School	1
South Dakota Historical Society.....	4
Surgeon General	51
Wisconsin University	18
Wisconsin Historical Society	1
Yale University	3
U. S. Department of Agriculture.....	63

Departmental libraries.—Early in the year the library of the School of Mines was installed in its new and very satisfactory quarters. It is, in my judgment, unfortunate that an arrangement could not have been made to have brought together in this building the closely related collections of mines and geology. The separation makes necessary the constant duplication of books and periodicals and decreases the efficiency of each.

The School of Mines has published, as one of the bulletins of the Mining Experiment Station, a Bibliography of Minnesota Mining and Geology prepared by Miss Gregory of the library staff. It is a most excellent piece of work and reflects great credit on its compiler.

In other respects the situation, as regards the departmental libraries, has not materially changed. Both as to supervision and hours of opening a great deal is left to be desired, but any radical change for the better must be delayed until a new library building is erected.

Library school.—For some years there has been an insistent demand that the University establish courses in the training of library assistants. The limitations both of our budget and the building have been such that I have not felt it wise hitherto to recommend the organization of such a school. The demand has become so great, however, as to make me feel that we should make an effort to secure from the next legislature an appropriation sufficient to undertake the work.

While no careful estimate of the necessities of such a school has as yet been made, it is believed that it will require an annual appropriation of \$5,000 a year. I recommend that this matter be presented to the next legislature and an attempt made to secure the appropriation.

Respectfully submitted,

J. T. GEROULD, *Librarian*

THE ACADEMIC FRATERNITIES

To the President of the University:

SIR: I herewith submit my report as President of the Interfraternity Council for the year ending July 31, 1915.

Change in President of the Council.—The present President of the Interfraternity Council was appointed February 18 to fill the vacancy formed by the resignation of Professor Fletcher H. Swift. No important change of policy has been adopted.

Initiation of freshmen.—The past year saw the successful operation of the rule of the Council which requires the successful completion of seventy-five per cent or more of the work carried by a student during the first semester before he may be initiated by a fraternity. Just what effect this rule has had on the scholarship of the individual members can not be definitely stated at this time. However, the fraternities are very well satisfied with the operation of this rule, and there has been no disposition to return to the old system of initiating at the end of eight weeks.

Scholarship.—Last year a new system of marking was adopted by the University. On account of this, it has been impossible to continue the set of curves contained in the last report of the President of the Council. Also it is impossible to give a direct comparison of the relative standing of the fraternities for the year 1914-15 with that of 1913-14.

For the year 1914-15 the following arbitrary system for tabulating the records of the individual students was adopted:

Grade	Per cent	Points per credit hour
A	93-100	3
B	87-92	2
C	81-86	1
D	75-80	½
E	Condition	0
F	Failure	—1
I	Incomplete. No consideration given.	

The ranking of the fraternities under this system is as follows:

Acacia	1.42
Delta Upsilon.....	1.26
Phi Sigma Kappa.....	1.25
Beta Theta Pi.....	1.197
Delta Tau Delta.....	1.195
Kappa Sigma.....	1.19
Alpha Delta Phi.....	1.18
Sigma Alpha Epsilon.....	1.07
Phi Gamma Delta.....	1.05
Alpha Tau Omega.....	1.048
Delta Kappa Epsilon.....	.99
Phi Delta Theta.....	.97

Sigma Nu.....	.96
Chi Psi.....	.947
Zeta Psi.....	.93
Phi Kappa Psi.....	.92
Theta Delta Chi.....	.913
Delta Chi.....	.907
Psi Upsilon.....	.905
Sigma Chi.....	.903

While this rating of the fraternities appears to be somewhat lower than that of previous years, I am informed by Professor Nicholson of the Administrative Board, who made the above table, that in his judgment the relative standing of the fraternities this year is higher than that of previous years.

High school pledging.—While some of the fraternities desire to abolish the pledging of seniors in the high schools, others feel that the present system is satisfactory. I believe that the fraternities would profit by doing away with high-school pledging and devoting all their energy to the pledgemen who are in the University. As yet the fraternities have been unable to find common ground for agreement, hence the continuation of the present system.

Respectfully submitted,

WILL F. HOLMAN, *President*

THE GENERAL ALUMNI ASSOCIATION

To the President of the University:

SIR: I submit herewith the report of the General Alumni Association for the University year ending July 31, 1915:

Publications.—Since the last previous report, the *Weekly* has been issued regularly and a special football number was published early in November, 1914. This number proved to be exceedingly interesting and valuable to all persons interested in the major sport of football at Minnesota and has received many complimentary notices from persons not directly connected with the University.

Endowment fund.—The campaign for an increase of the endowment mentioned in our previous reports was successful and the full thousand additional members were secured. The total number of life members now is approximately twenty-eight hundred.

At the suggestion of the President of the University, our Association issued a special legislative number early in 1915; later we issued another special number urging the alumni to become active in the interests of the University and answering many of the objections that were raised concerning the University in the legislature. This number was sent out to all alumni living in Minnesota.

Material for a new alumni directory is being gathered. Our Association is cooperating with the publishers to make this number complete and up-to-date.

E. B. JOHNSON, *Secretary*

REPORT OF THE REGISTRAR

To the President of the University:

SIR: I submit herewith a report on the work of the Registrar's office for the year ending July 31, 1915:

Entrance requirements.—The change from the so-called "80 per cent" rule which required that the applicant have an average of "Pass with Credit" in all subjects before registration, to the "letter of warning" regulation referred to in the last annual report, has resulted in a decided increase in registration as was expected. With the "eighty per cent" rule went the major and minor series requirement as well.

Considerable doubt as to the wisdom of admitting students having an average scholarship lower than "Pass with Credit" has been expressed. Table X, page 32, shows the comparative registration of such students and "Satisfactory" students. Note that seventy-five per cent of those who under last year's rule would have been refused admission to the College of Science, Literature, and the Arts, actually succeeded in carrying their work satisfactorily. The proportion is still higher for Agriculture and Engineering. The ratio of low scholarship students dropped to the number of such students admitted is as follows: Science, Literature, and the Arts, 24.8 per cent; Engineering, 13 per cent; Agriculture, 4.7 per cent.

Change in English requirement.—Heretofore 4 units of English have been required in all colleges except Engineering, which required three units. The regulation now reads: "Three units will satisfy the English requirement in the Colleges of Engineering and Dentistry, and the School of Mines, and will suffice for the other colleges when the applicant presents four units of one foreign language or two units in each of two foreign languages."

Entrance requirement posters.—Condensed statements of the entrance requirements have been sent in poster form to all of the preparatory schools of the state. This plan makes it possible for the prospective student to ascertain at a glance just what is required for admission to a given college, and eliminates to a large degree the possibility of misinformation on this subject.

Accredited schools and colleges: Visitation Convent; Red Wing Seminary.—On February 4, 1915, the Senate voted on recommendation of the Committee on Education that Visitation Convent be placed on the list of Accredited Schools and that credits from Red Wing Seminary be accepted towards advanced standing to the extent of three full years of work.

New Committee on Accrediting Schools and Colleges.—Acting on the recommendation of the Committee on Education the Senate voted that a Committee of seven members on the Relation of the University to Other Institutions of Learning be appointed. This committee for the year 1915-16 is as follows: R. R. Shumway, L. D. Coffman, G. S. Ford,

W. F. Holman, C. P. Sigerfoos, Margaret Sweeney, R. M. West, and the Registrar as permanent secretary.

Transfer of dropped students between the University and other colleges of the state.—On February 4, 1915, the Senate voted that the following regulations, heretofore operative between the Academic department and Carleton College, Hamline University, Macalester College, St. John's University, Concordia College, and Augsburg Seminary, be adopted for the entire University (Senate Minutes No. 3, pages 1-2, 1914-15). "Recognizing that some college students, tho capable of doing good work, fall below the required standard, especially during their first year in college, on account of the distractions due to the new environment; and believing that many of these, if given an opportunity in another institution, would recover themselves and maintain a satisfactory standard; we favor receiving, under the following conditions, into a college of this conference, a student who has been dropped from another college of the conference on account of poor work: (a) that he have an honorable dismissal so far as conduct is concerned; (b) that there be assurance from the institution from which he was dropped that his poor work was not from lack of ability or from inadequate preparation; (c) that before being allowed to continue those subjects in which he received failures, he be required to gain credits on the parts for which he received the failures; (d) that he be notified that, if received, neither the college from which he was dropped nor any other college in this conference will accept any credits gained unless he remain a year; (e) that, in case the applicant be a male student, information concerning his athletic status be furnished by the institution from which he was dropped; (f) that he be registered on probation only, the registration to be cancelled at any time within one year if he fall below the passing grade in half of his work."

Editorial division.—Miss Franc Potter, Editor, resigned in March to accept a position with the State Historical Society. Miss Edith Herbst, formerly with the Minnesota Tax Commission, succeeded to the position in April. Mr. H. B. Satterlee has been appointed manager of the University Printing Office located in the old University High School.

Office needs.—Every increase in registration, practically every change in curriculum, and in fact all faculty actions which affect students, involve increased work in the Registrar's office. The full effect of a given action can not readily be foreseen, and with the institution growing at the present rate, the office finds itself unable, because of insufficient help or funds, to give the satisfactory service it would if conditions remained static even for one year.

Catalog editor.—The need for a complete Annual Register is still urgent. A competent assistant should be secured who in conjunction with the work of compiling the register could supervise several other important tasks, such as the maintenance of a complete faculty list, the compilation of the University address book, and the care of the entire mailing list.

Enrollment.—For statistics of registration, see pages 17 to 33.

Respectfully submitted,

E. B. PIERCE, Registrar

FINANCIAL REPORT

To the President of the University:

SIR: I submit herewith a report of the financial operations of the University of Minnesota covering the fiscal period ending July 31, 1915.

In accordance with your instructions, the tables given are but summaries of the year's business and additional tables and detailed statements will be given in the Biennial Report as required by law.

Shortly after the Legislature adjourned, the State Auditor and State Treasurer very kindly consented to the increasing of the number of abstracts covering vouchers for the payment of invoices, from two to four per month. This has greatly facilitated the payment of bills and as a result we are able to take advantage of the 2 per cent discount in nearly all cases and are receiving more favorable net prices. The doubling of the number of abstracts increases proportionately the work in the offices of the State Auditor and State Treasurer and in the Business Office of the University. It will greatly lessen the work if we reduce the number of funds. I therefore recommend that all the maintenance appropriations be included in one fund detailing the proposed budgeting of the fund as we did in the consolidation of the Agricultural Experiment projects, which appears to give general satisfaction.

I desire to repeat my recommendations to amend the law, as follows:

1. To increase the number of abstracts from one to four, with the understanding that the maintenance funds are consolidated.
2. To discontinue individual signatures to pay rolls and to substitute the certificate of the heads of departments and deans attesting the correctness of the rolls.
3. To provide for a permanent record inventory to be adjusted from time to time with the additional purchases, the reduction of broken or lost equipment and a percentage for depreciation, to take the place of the annual inventory as now required.

I desire to call attention to the Public Examiner's report of examination for the fiscal year ending July 31, 1914, in which he recommends "that an Administrative Building be provided or other arrangements made in order that the Administrative department units may be combined, a procedure which would result in a saving of operating expenses."

I heartily concur in the recommendation and urge careful consideration.

TABLE I

RECAPITULATION OF ALL FUNDS

Balance August 1, 1914, Maintenance funds...	219,000.14	
Receipts (not including transfers, etc.)	1,987,055.43	
Balance August 1, 1914, Building and equip- ment funds	798,164.16	
Receipts, Building and equipment funds.....	323,595.12	
Dining Halls, etc.	179,422.20	
<hr/>		
Total		3,507,237.05
Maintenance expenditure	2,025,386.48	
Building and equipment expenditure.....	841,959.21	
Balance maintenance funds.....	163,495.35	
Balance building and equipment funds.....	248,286.44	
Dining hall receipts, etc., treated as expenditures as the dining halls and dormitories are not oper- ated for profit. Charges for use of build- ings, light, heat, etc., would more than absorb <i>balances</i>	179,422.20	
Adjustments <i>deduction debits</i> in excess of <i>de- duction credits</i> to and from maintenance fund	17,173.74	
Building and equipment fund.....	31,513.63	
<hr/>		
Total		3,507,237.05

TABLE II

CLASSIFICATION BY COMMODITY

	1913-14	1914-15	INCREASE	DECREASE
Salaries	1,082,349.67	1,110,416.34	28,066.67	.....
Wages	221,239.57	266,771.21	45,531.64	.....
Miscellaneous labor..	49,624.31	74,459.84	24,835.53	.....
Postage	11,899.94	12,680.89	780.95	.....
Office supplies	4,654.02	5,163.81	509.79	.....
Stationery and print- ing	19,261.03	18,460.75	.....	800.28
Publications and ad- vertising	18,012.40	20,739.99	2,727.59	.....
Freight and express..	9,142.64	9,940.53	797.89	.....
Traveling expenses..	50,298.55	48,644.16	.....	1,654.39
Telegraph and tele- phone	6,710.52	7,985.07	1,274.55	.....
Provisions	94,081.48	100,433.64	6,352.16	.....
Supplies for instruc- tion	93,382.58	114,654.16	21,271.58	.....
Seeds and plants	2,637.00	2,420.16	.....	216.84

TABLE II—Continued

CLASSIFICATION BY COMMODITY

	1913-14	1914-15	INCREASE	DECREASE
Feeding stuffs	27,096.30	34,081.45	6,985.15	.....
Laundry	13,819.63	15,894.59	2,074.96	.....
Miscellaneous supplies	24,323.22	45,555.02	21,231.80	.....
Gas	6,095.72	6,942.04	846.32	.....
Electricity	9,330.13	10,833.54	1,503.41	.....
Water and ice.....	6,631.66	7,797.33	1,165.67	.....
Fuel	90,499.40	88,731.86	.....	1,767.54
Repairs	58,635.25	72,105.64	13,470.39	.....
Rents and assessments	2,396.74	2,562.19	165.45	.....
Books	44,811.75	42,362.66	.....	2,449.09
Apparatus, instruments, glassware ..	74,299.56	50,367.27	.....	23,932.29
Furniture and furnishings	70,668.72	39,812.07	.....	30,856.65
Tools, implements, machinery	36,301.86	35,964.56	.....	337.30
Type and adding machine	3,125.00	4,080.86	955.86	.....
Book-binding	3,753.45	4,485.57	732.12	.....
Dining hall equipment	2,024.02	1,698.00	.....	326.02
Kitchen utensils	2,491.42	1,260.40	.....	1,231.02
Live stock	14,820.70	15,217.80	397.10	.....
Land purchases .....	.....	6,300.00	6,300.00	.....
New construction ...	762,588.43	763,476.98	888.55	.....
Interest and certificates	66,462.50	.....	.....	66,462.50
Premiums	276.12	175.00	.....	101.12
Sundry trust funds..	11,209.69	13,179.85	1,970.16	.....
Book store	13,555.15	12,263.61	.....	1,291.54
Refund of fees and deposits	34,940.03	43,157.55	8,217.52	.....
Total	\$3,043,450.16	\$3,111,076.39	\$199,052.81	\$131,426.58

TABLE III
MAINTENANCE

<i>Income</i>		
FROM STATE: Balance July 31, 1914		\$219,000.14
<i>Standing Appropriations—</i>		
23/100 Mill Tax.....	\$330,117.11	
School of Mines Support.....	19,500.00	
General Investigations	49,500.00	
	<hr/>	
		\$399,117.11
<i>Annual Appropriations—</i>		
General Support	483,000.00	
Sundry Special Support	495,400.00	
	<hr/>	
		978,400.00
<i>Interest on Investments—</i>		
Swamp Land Interest	26,646.20	
Land Investments	33,010.67	
Interest on Bonds and Invest- ments	28,086.93	
	<hr/>	
		87,743.80
FROM FEDERAL GOVERNMENT:		
Nelson	25,000.00	
Morrill	25,000.00	
Hatch	15,000.00	
Adams	15,000.00	
Lever-Smith	10,000.00	
	<hr/>	
		90,000.00
STUDENT FEES, SALES, etc.:		
*Tuition and Incidental Fees, (net)	221,699.15	
Sale from Farm Products (net)	108,807.52	
Rents from Campus Houses...	8,659.07	
Miscellaneous Income (net)...	92,628.78	
	<hr/>	
		431,794.52
		<hr/>
		1,987,055.43
		<hr/>
Total Available.....		\$2,206,055.57

* University and Agriculture Breakeage and Military Deposits not included in Tuition Fees or Refundments.

TABLE III—Continued

MAINTENANCE

Expenses

	1914-1915	
General University (administration, business management, care of buildings, heat and light)	\$263,910.02	
Science, Literature, and the Arts.....	291,086.97	
Agriculture (including sub-stations)	708,395.43	
Engineering	102,275.96	
Law	36,365.70	
Medical School	142,729.12	
Elliot Hospital	76,459.53	
Dentistry Dental Infirmary (\$20,860.39)	54,904.26	
Pharmacy	18,697.55	
Mines	47,329.51	
Chemistry	47,595.97	
Education	25,973.98	
Extension	87,730.32	
Summer Session	10,576.03	
Graduate School	12,201.51	
	<hr/>	
		\$1,926,231.86
Purchases from Maintenance Fund of items chargeable to Inventory		99,154.62
		<hr/>
Maintenance as per summary.....		\$2,025,386.48
Difference between adjustments of debits and credits as shown in summary.....		17,173.74
Refund of 23/100 Mill Tax.....	100,000.00	
Bills outstanding July 31, 1914.....	22,283.79	
Orders outstanding July 31, 1914.....	17,416.16	
*Unexpended balances	23,795.40	
	<hr/>	
		163,495.35
		<hr/>
		\$2,206,055.57

* Storehouse Inventory \$20,898.41 should be added to unexpended balances as stock was paid for out of Maintenance and was in Storehouse July 31, 1915.

TABLE IV
SUMMARY OF MAINTENANCE FUNDS

	1914-1915				
	BALANCE AUGUST 1, 1914	CREDITS TO SUPPORT FUND	TOTAL	DEBITS TO SUPPORT FUND	BALANCE JULY 31, 1915
Support Fund	\$ 124,098.96	\$1,572,733.89	\$1,696,832.85	\$1,599,427.16	\$ 97,405.69
Special University Support	39,016.17	353,001.55	392,017.72	359,365.70	32,652.02
Special Repairs	15,981.82	35,220.72	51,202.54	46,190.51	5,012.03
Special Agriculture Support	15,825.24	237,217.53	253,042.77	238,723.61	14,319.16
Special Agriculture Repairs	7,819.03	22,738.96	30,557.99	29,271.49	1,286.50
Sub-station Support	16,258.92	144,014.73	160,273.65	147,453.70	12,819.95
Totals	\$ 219,000.14	\$2,354,927.38	\$2,583,927.52	\$2,420,432.17	\$ 163,495.35
Transfers and Entries other than receipts credited to accounts.....		377,871.95			
Transfers and Entries other than expense charged to accounts.....				395,045.69	
Net Receipts		\$1,087,055.43			
Net Expenditures				\$2,025,386.48	

TABLE V

SUMMARY OF BUILDING AND EQUIPMENT FUNDS

1914-1915

	BALANCE AUGUST 1, 1914	CREDITS TO FUNDS	TOTAL	DEBITS TO FUNDS	BALANCE JULY 31, 1915
University Buildings	\$ 538,681.62	\$ 137,009.47	\$ 675,781.09	\$ 482,666.30	\$ 193,114.79
University Equipment	51,471.52	17,958.08	69,429.60	62,601.59	6,828.01
Agricultural Buildings	146,500.61	138,800.76	285,301.37	246,846.29	38,455.08
Agricultural Equipment	26,589.90	12,547.76	39,137.66	33,974.35	5,163.31
Crookston Buildings and Improvements.....	25,919.50	.....	25,919.50	25,900.55	18.95
Morris Buildings and Improvements.....	46.97	14,189.05	14,236.02	11,417.53	2,818.49
Waseca Buildings and Improvements.....	6,373.19	3,000.00	9,373.19	7,485.38	1,887.81
Duluth Buildings and Improvements.....	2,580.85	.....	2,580.85	2,580.85	.....
	<u>\$ 798,164.16</u>	<u>\$ 323,595.12</u>	<u>\$1,121,759.28</u>	<u>\$ 873,472.84</u>	<u>\$ 248,286.44</u>
	.....	.....	.....	31,513.63	.....
Items other than expense charged to accounts..	\$ 798,164.16	\$ 323,595.12	\$1,121,759.28	\$ 841,959.21	\$ 248,286.44

FINANCIAL REPORT

TABLE VI

RECEIPTS CREDITED TO UNIVERSITY SUPPORT FUNDS

1914-1915

Interest on principal derived from sale of Swamp Lands.....	\$26,646.20
Land Interest	9,606.93
Interest on Bonds and Invested Funds.....	51,490.67
Advance on 23/100 Mill Tax	90,000.00
Student Fees, University	198,330.13
Student Fees, Agriculture	27,894.53
Miscellaneous Receipts, Agriculture	22,703.79
Experiment Station	5,024.99
General University Miscellaneous	30,387.81
Dental Infirmary	20,860.39
Sanford Hall, Fees	21,400.74
Shevlin Hall, Fees	15,610.41
Minnesota Union, Fees	26,928.74
Dining Hall, Agriculture Fees	65,192.54
Book Store, Agriculture Receipts	16,601.33
Received from Government.....	80,000.00
Interest on Bank Deposits.....	160.79
Engineering Testing Fees	478.75
Refunds (salary checks cancelled)	78.40
Breakage and Military Deposits.....	50,219.64
	<hr/>
	\$759,616.78

Respectfully submitted,

G. H. HAYES, *Comptroller*

PUBLICATIONS OF THE FACULTIES, 1914-15

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

ANIMAL BIOLOGY

JOHN B. JOHNSTON, Ph.D., Dean, and Professor of Comparative Neurology
A Tractus Olfacto-tegmentalis in the Human Fetal Brain. *Journal of Comparative
Neurology* 25:283-90. 1915.

THOMAS S. ROBERTS, M.D., Professor of Ornithology and Associate Di-
rector of the Zoological Survey and Zoological Museum
Brewer's Blackbird (*Euphagus Cyanocephalus*) breeding in Southeastern Minnesota.
The Auk 31:538-40. 1914.

HAL DOWNEY, Ph.D., Associate Professor of Comparative Histology
The so-called "endothelioid" cells. *Anatomical Record* 9:73-77. 1915.
The Origin and Development of Eosinophil Leucocytes and of Haematogenous Mast
Cells in the Bone Marrow of Adult Guinea Pig. *Folia Haematologica* 19:148-
206. 1915.
Reviews and Abstracts of all American haematological literature. *Folia Haematologica*
1914-15.

ASTRONOMY

FRANCIS P. LEAVENWORTH, M.A., Professor of Astronomy, Head of De-
partment of Astronomy

Transit of Mercury, Nov. 7, 1914. *Astronomical Journal* 28:201. 1915.
Observations of Comets, made with the 40-inch refractor of the Yerkes Observatory.
Astronomical Journal 29:15. 1915.
Micrometrical Measures of Double Stars, made with the 40-inch refractor of the
Yerkes Observatory. *Astronomical Journal* 29:17-24. 1915.
Double-Star Measures, made with the 10½-inch equatorial of the University of Min-
nesota. *Astronomical Journal* 29:41-44. 1915.

WILLIAM OTIS BEAL, M.A., M.S., Assistant Astronomer
Photographic Positions of Comets. *Astronomical Journal* 29:47. 1915.

BOTANY

JOSEPHINE E. TILDEN, M.S., Professor of Botany

Card Index

Index Algarum Universalis: A universal card index of the marine, freshwater, epi-
phytic, and parasitic algae of the world. Classified in four divisions: 1, Au-
thors; 2, Genera; 3, Geographical Areas; 4, General Subjects. Installment I.
5796 cards. 1915.

COMPARATIVE PHILOLOGY

FREDERICK KLAEBER, Ph.D., Professor of Comparative and English Philology, Head of the Department of Comparative Philology

Das Volk in der Stunde der Prüfung. *Monatshefte für deutsche Sprache und Pädagogik* 15:341-46. 1914.

Reviews of

Max Foerster, Altenglisches Lesebuch. *Beiblatt zur Anglia* 25:294-96. 1914.

Pontus Fahlbeck, Beowulfskvädet som källa för nordisk fornhistoria. *Englische Studien* 48:435-37. 1915.

John R. Clark Hall, Beowulf, A Metrical Translation into Modern English. *Beiblatt zur Anglia* 26:170-72. 1915.

ECONOMICS

JOHN HENRY GRAY, Ph.D., Professor, Head of the Department of Economics

Dissenting Report of E. M. Bassett, John H. Gray, and Milo R. Maltbie, to the National Civic Federation Model Bill for the Regulation of Public Utilities. 1914.

Drafted by John H. Gray: 4 pages. Authorized to be published Oct. 23, 1914.

The Public View of the Railroads' Need for an Increase of Rates. Address before The Western Economic Society, Chicago, November, 1914. *Journal of Political Economy* 23:105-27, February, 1915. Reprinted in pamphlet form, 1915.

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Bulletin of
The University of Minnesota

THE ANNUAL REGISTER

1916-1917



VOL. XIX NO. 2. APRIL 1918

Entered at the Post-Office
in Minneapolis as second-class matter
Minneapolis, Minn.

The Bulletin of the University of Minnesota is issued as often as twice a month during the University year.

The Bulletin comprises—

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The University of Minnesota**

THE ANNUAL REGISTER

1916-1917



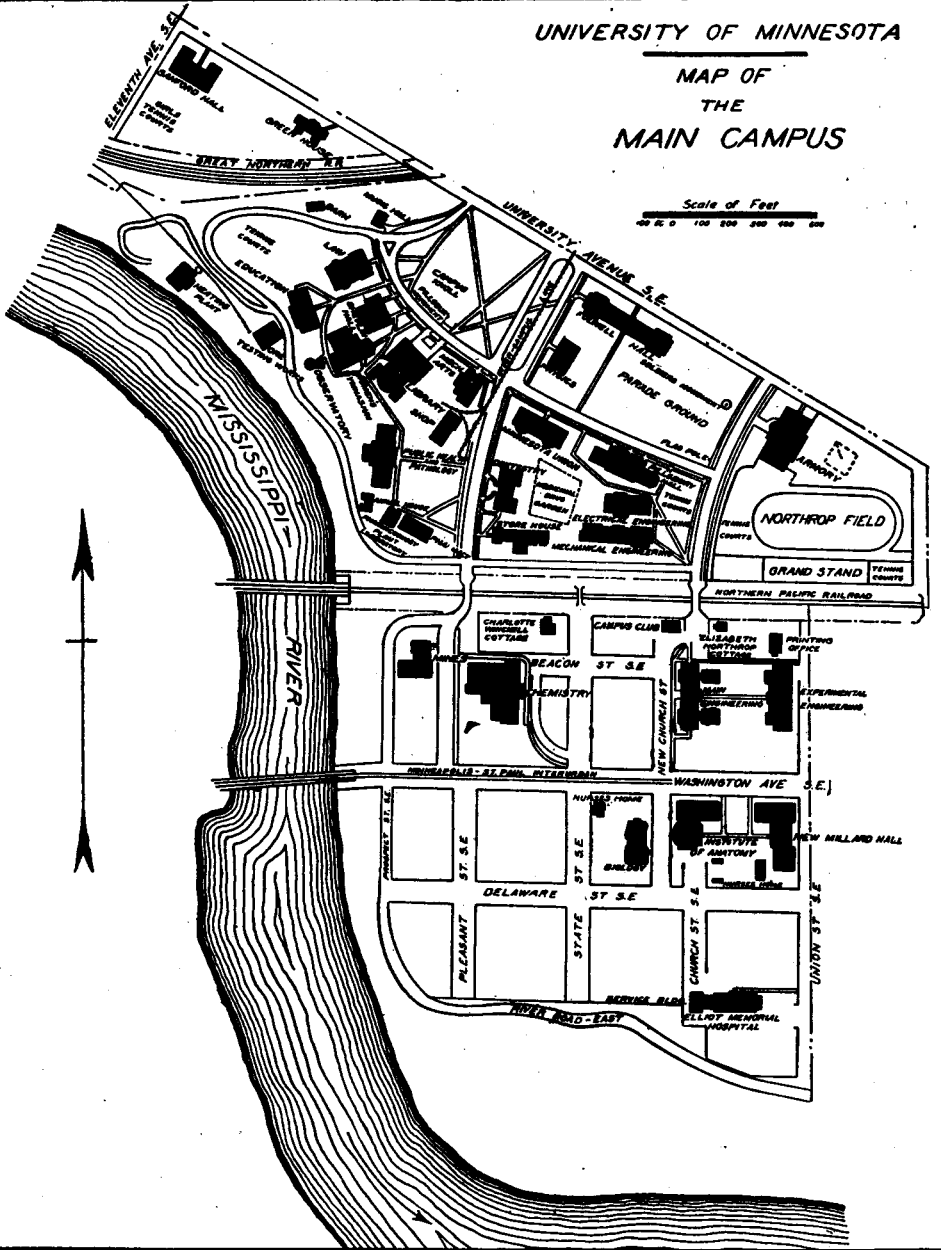
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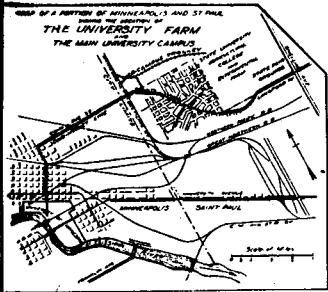
UNIVERSITY OF MINNESOTA

MAP OF
THE
MAIN CAMPUS

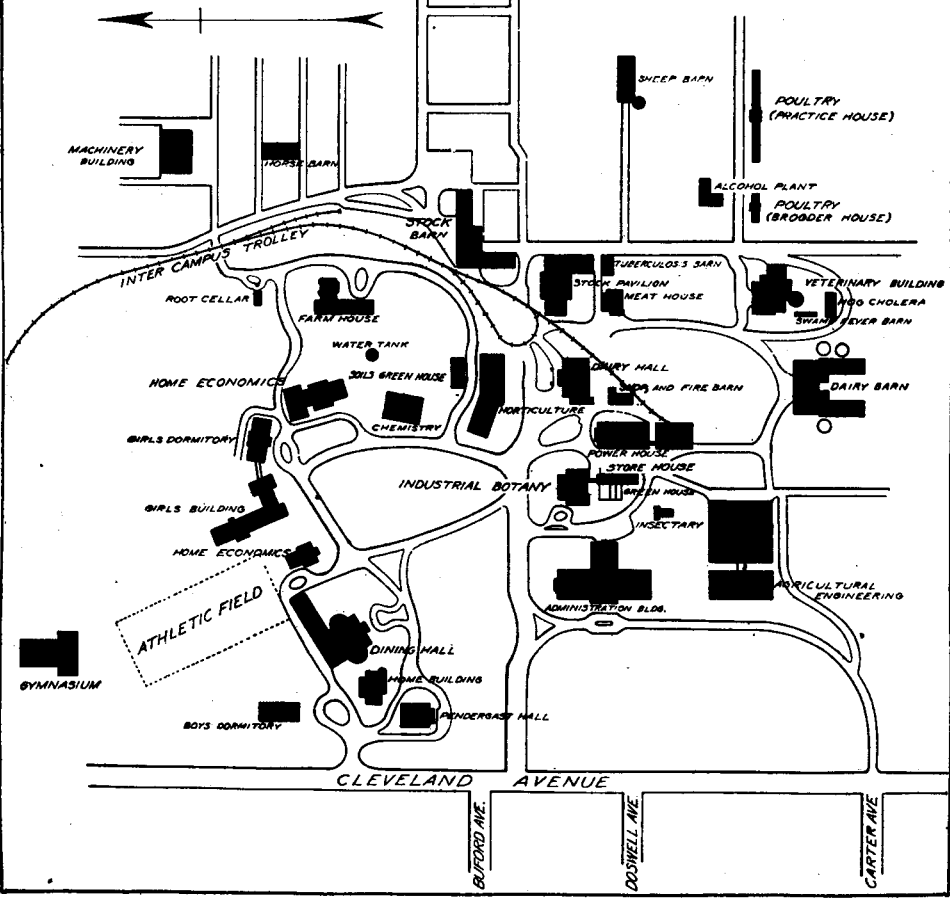
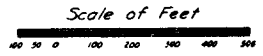
Scale of Feet
0 50 100 200 300 400 500



Area of Main Campus, 108.5 acres



UNIVERSITY OF MINNESOTA
 MAP OF THE CAMPUS
 OF THE
 UNIVERSITY FARM



O. S. Zeller.

Area of University Farm, 422.56 acres

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1916							1917													
JULY							JANUARY						JULY							
Su	Mo	Tu	W	Th	Fr	Sa	Su	Mo	Tu	W	Th	Fr	Sa	Su	Mo	Tu	W	Th	Fr	Sa
..	..	..	..	..	..	1	..	1	2	3	4	5	6	1	2	3	4	5	6	7
2	3	4	5	6	7	8	7	8	9	10	11	12	13	8	9	10	11	12	13	14
9	10	11	12	13	14	15	14	15	16	17	18	19	20	15	16	17	18	19	20	21
16	17	18	19	20	21	22	21	22	23	24	25	26	27	22	23	24	25	26	27	28
23	24	25	26	27	28	29	28	29	30	31	..	..	..	29	30	31	..	..	..	..
30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
AUGUST							FEBRUARY						AUGUST							
..
3	7	8	9	10	11	12	4	5	6	7	1	2	3	5	6	7	1	2	3	4
13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
27	28	29	30	31	25	26	27	28	26	27	28	29	30	31	..
..
SEPTEMBER							MARCH						SEPTEMBER							
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10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15
17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22
24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..
OCTOBER							APRIL						OCTOBER							
1	2	3	4	5	6	7	1	2	3	4	5	6	7	..	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13
15	16	17	18	19	20	21	15	16	17	18	19	20	21	14	15	16	17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
29	30	31	..	..	..	..	29	30	..	..	..	..	..	28	29	30	31	..	..	..
..
NOVEMBER							MAY						NOVEMBER							
..	..	..	1	2	3	4	..	..	1	2	3	4	5	..	..	..	..	1	2	3
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24
26	27	28	29	30	27	28	29	30	31	25	26	27	28	29	30	..
..
DECEMBER							JUNE						DECEMBER							
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3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8
10	11	12	13	14	15	16	10	11	12	13	14	15	16	9	10	11	12	13	14	15
17	18	19	20	21	22	23	17	18	19	20	21	22	23	16	17	18	19	20	21	22
24	25	26	27	28	29	30	24	25	26	27	28	29	30	23	24	25	26	27	28	29
31	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..

UNIVERSITY CALENDAR

1916-1917

The University year covers a period of thirty-eight weeks. Commencement Day is always the second Thursday in June.

1916

September	13	Wednesday	Registration closes except for new students
September	13-20	Week	Fees payable except for new students
September	19-26	Week	Examinations for the removal of conditions (except Colleges of Agriculture and Forestry), entrance examinations, registration of new students, and payment of fees
September	27	Wednesday	First semester begins
October	2	Monday	Agricultural College, farm experience examinations
October	2	Monday	School of Agriculture, first term begins
October	5	Thursday	Senate meeting, 4:00 p.m.
November	6	Monday	Dairy School opens
November	7	Tuesday	Election day; a holiday
November	22	Wednesday	Medical School second quarter begins
November	29	Wednesday	Thanksgiving recess begins 9:00 p.m.
December	2	Saturday	Dairy School closes
December	4	Monday	Thanksgiving recess ends 8:00 a.m.
December	4-9	Week	Second semester condition examinations, Colleges of Agriculture and Forestry
December	4-9	Week	Short course for ice-cream makers
December	7	Thursday	Senate meeting, 4:00 p.m.
December	22	Friday	Christmas vacation begins 9:00 p.m.
December	22	Friday	School of Agriculture, first term closes

1917

January	1-6	Week	Farmers' Short Course
January	3	Wednesday	Christmas vacation ends 8:00 a.m.
January	3	Wednesday	School of Embalming begins, eight weeks' session
January	9	Tuesday	School of Agriculture, second term begins
January	24	Wednesday	Second semester registration closes, except for new students
January	29	Monday	Final examinations begin
January	31	Wednesday	Payment of fees for second semester closes, except for new students
February	1	Thursday	Senate meeting, 4:00 p.m.

February	5-6	Monday-Tues.	Registration and payment of fees for new students
February	7	Wednesday	Second semester begins
February	12	Monday	Lincoln's Birthday; a holiday
February	22	Thursday	Washington's Birthday; a holiday
March	28	Wednesday	School of Agriculture closes
April	2-7	Week	Junior Short Course
April	5	Thursday	Easter recess begins 9:00 p.m.
April	11	Wednesday	Easter recess ends 8:00 a.m.
April	11	Wednesday	Medical School fourth quarter begins
April	16-21	Week	Condition examinations in certain colleges
May	1	Tuesday	Traction Engineering Course begins
May	3	Thursday	Senate meeting, 4:00 p.m.
May	30	Wednesday	Memorial Day; a holiday
June	1	Friday	Final examinations begin 2:00 p.m.
June	9	Saturday	Second semester closes
June	10	Sunday	Baccalaureate service
June	11	Monday	Senior Class Day exercises
June	11-18	Week	Military Encampment, Fort Snelling
June	13	Wednesday	Alumni Day
June	14	Thursday	Forty-fifth Annual Commencement
June	15	Friday	Summer vacation begins
June	18	Monday	Summer Session begins

The University year for 1917-1918 will begin Wednesday, October 10.

Program of Entrance Examinations 1916-1917

Entrance examinations for admission to the various colleges of the University will be conducted according to the following schedule, in Room 112, Library Building, unless otherwise specified.

Any student finding a conflict in his program should report to the Registrar for adjustment.

Tuesday, Oct. 2	9 a.m.	Business Subjects, Elementary Algebra, Plane Geometry
	2 p.m.	Manual Subjects, Domestic Art and Science, Agriculture, Higher Algebra. Solid Geometry
Wednesday, Oct. 3	9 a.m.	Astronomy, Botany, Geology, Chemistry, Physiography, Zoology, Physics, Physiology
	2 p.m.	American Government, History, Economics, Commercial Geography, History of Commerce, Economic History of England, Economic History of the United States

Thursday, Oct. 4 9 a.m. English
 2 p.m. German, Greek, French, Latin, Scandinavian, Spanish

A representative of each department will be at the office of the head of the department each forenoon of entrance examination week from 9 to 12 to give information and advice.

Condition Examinations

Regular examinations for the removal of conditions are given at no other times than (1) the week following the Easter recess, (2) the registration week in September, and (3) the week following the Thanksgiving recess, for students in the Colleges of Agriculture and Forestry.

The examinations in second-semester courses are given in the September period and those in first-semester courses are given after the Easter recess or in September, or at both times, as each school or college may determine. No student may take more than one examination to remove a condition.

Examination schedules for the respective schools and colleges may be secured at the Registrar's office.

ORGANIZATION OF THE UNIVERSITY

The University is organized in Schools, Colleges, and Divisions as follows:

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

THE COLLEGE OF ENGINEERING AND ARCHITECTURE

THE DEPARTMENT OF AGRICULTURE, including—

THE COLLEGE OF AGRICULTURE

THE COLLEGE OF FORESTRY, including—

FOREST EXPERIMENT STATIONS AT ITASCA AND CLOQUET

THE CENTRAL SCHOOL OF AGRICULTURE, UNIVERSITY FARM

THE NORTHWEST SCHOOL OF AGRICULTURE, CROOKSTON

THE WEST CENTRAL SCHOOL OF AGRICULTURE, MORRIS

THE EXPERIMENT STATIONS, including—

THE MAIN STATION, ST. ANTHONY PARK

THE NORTHWEST EXPERIMENT STATION, CROOKSTON

THE NORTH CENTRAL EXPERIMENT STATION, GRAND RAPIDS

THE WEST CENTRAL EXPERIMENT STATION, MORRIS

THE NORTHEAST DEMONSTRATION FARM AND EXPERIMENT STATION, DULUTH

THE SOUTHEAST DEMONSTRATION FARM AND EXPERIMENT STATION, WASECA

THE FRUIT-BREEDING FARM, ZUMBRA HEIGHTS

THE LAW SCHOOL

THE MEDICAL SCHOOL, including—

THE SCHOOL OF EMBALMING

THE SCHOOL FOR NURSES

THE COLLEGE OF DENTISTRY

THE SCHOOL OF MINES, including—

MINNESOTA SCHOOL OF MINES EXPERIMENT STATION

THE COLLEGE OF PHARMACY

THE SCHOOL OF ANALYTICAL AND APPLIED CHEMISTRY

THE COLLEGE OF EDUCATION

THE GRADUATE SCHOOL

THE UNIVERSITY EXTENSION SERVICE, including—

GENERAL EXTENSION DIVISION

AGRICULTURAL EXTENSION DIVISION

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GEORGE EDGAR VINCENT, Minneapolis	- - - - - <i>Ex officio</i>
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The Hon. W. J. MAYO, Rochester	- - - - - 1919
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The Hon. PIERCE BUTLER, St. Paul	- - - - - 1922
The Hon. C. W. GLOTFELTER, Waterville	- - - - - 1922

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- GEORGE H. HAYES, University Comptroller and Secretary of the Board of Regents
- JAMES T. GEROULD, B.A., Librarian
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- EDWARD E. NICHOLSON, M.A., Assistant Dean of the College of Science, Literature, and the Arts
- FRANCIS C. SHENEHON, C.E., Dean of the College of Engineering and Architecture
- ALBERT F. WOODS, M.A., D.Agr., Dean and Director of the Department of Agriculture
- EDWARD M. FREEMAN, Ph.D., Assistant Dean of the Department of Agriculture
- WILLIAM R. VANCE, Ph.D., LL.D., Dean of the Law School
- ELIAS POTTER LYON, Ph.D., M.D., Dean of the Medical School
- RICHARD O. BEARD, M.D., Assistant Dean and Secretary of the Medical School
- ALFRED OWRE, B.A., M.D., C.M., D.M.D., Dean of the College of Dentistry
- WILLIAM R. APPLEBY, M.A., Dean of the School of Mines
- FREDERICK J. WULLING, Ph.D., LL.D., Dean of the College of Pharmacy
- GEORGE B. FRANKFORTER, Ph.D., Dean of the School of Chemistry
- LOTUS D. COFFMAN, Ph.D., Dean of the College of Education
- GUY STANTON FORD, Ph.D., Dean of the Graduate School
- RICHARD R. PRICE, M.A., Director of University Extension
- MARGARET SWEENEY, Ph.D., Dean of Women

THE UNIVERSITY OF MINNESOTA
OFFICERS OF INSTRUCTION AND ADMINISTRATION
1916-1917
FACULTY

GEORGE EDGAR VINCENT, Ph.D., LL.D., President
B.A., Yale, 1885; Ph.D., Chicago, 1896; LL.D., Chicago, 1911; Yale, 1911; LL.D., Michigan, 1913.

CYRUS NORTHROP, LL.D., President, Emeritus
B.A., Yale, 1857; LL.B., Yale, 1859; LL.D., Yale, 1886; LL.D., Wisconsin, Illinois College, South Carolina College.

AMOS WILSON ABBOTT, M.D., Professor of Gynecology, Emeritus
M.D., College of Physicians and Surgeons (Columbia), 1869.

†EVERTON JUDSON ABBOTT, M.D., Professor of Clinical Medicine, Emeritus
B.A., Western Reserve, 1873; M.D., Western Reserve, 1875.

FRED LYMAN ADAIR, M.D., Associate Professor of Obstetrics and Gynecology
B.S., Minnesota, 1898; M.D., Rush Medical College, 1901.

CEPHAS DANIEL ALLIN, M.A., LL.B., Professor of Political Science
B.A., Toronto, 1897; LL.B., Toronto, 1899; M.A., Harvard, 1900.

JOHN HOWARD ALLISON, M.F., Professor of Forestry, Associate Forester, Agricultural Experiment Station
Ph.B., Sheffield Scientific School (Yale), 1905; M.F., Yale Forest School, 1906.

FREDERICK JAMES ALWAY, Ph.D., Professor of Soil Chemistry, Chief of the Division of Soils, and Soils Chemist, Agricultural Experiment Station
B.A., Toronto, 1894; Ph.D., Heidelberg, 1897.

WILLIAM REMSEN APPELBY, M.A., Professor of Metallurgy and Dean of the School of Mines
B.A., Williams, 1886; M.A., Williams, 1893.

ALBERT CEDRIC ARNY, B.S. in Agr., Assistant Professor of Agronomy and Assistant Agronomist, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1909.

ROBERT CHILDERS ASHBY, B.A., M.S., Assistant Professor of Animal Husbandry, and Assistant Animal Husbandman, Agricultural Experiment Station
B.S. in Agr., Nebraska, 1908; B.A., Nebraska Wesleyan, 1910., M.S., Minnesota, 1915.

GUSTAV BACHMAN, Phm.D., M.Phm., Associate Professor of Pharmacy
Phm.D., Minnesota, 1900; M Phm., Minnesota, 1901.

† Died, February 25, 1917.

- *CLYDE HAROLD BAILEY, M.S., Assistant Professor of Agricultural Bio-chemistry and Cereal Technologist, Agricultural Experiment Station
B.S.S., North Dakota Agricultural College, 1913; M.S., Minnesota, 1916.
- LOUIS BENEDICT BALDWIN, M.D., Superintendent, University Hospitals
M.D., Minnesota, 1897.
- DONALD CHURCH BALFOUR, M.D., Associate Professor of Surgery
M.B., University of Toronto, 1906; M.D., University of Toronto, 1914.
- MOSES BARRON, B.S., M.D., Assistant Professor of Pathology
B.S., Minnesota, 1910; M.D., Minnesota, 1911.
- FREDERIC HERBERT BASS, B.S., Professor of Municipal and Sanitary Engineering
B.S., Massachusetts Institute of Technology, 1901.
- LOUIS BENJAMIN BASSETT, Assistant Professor of Farm Management and Assistant Farm Management Investigator, Agricultural Experiment Station
Minnesota School of Agriculture, 1896.
- GEORGE NEANDER BAUER, Ph.D., Professor of Mathematics and Chairman of the Department of Mathematics
B.S., Minnesota, 1894; M.S., Iowa, 1898; Ph.D., Columbia, 1900.
- JOSEPH WARREN BEACH, Ph.D., Assistant Professor of English
B.A., Minnesota, 1900; M.A., Harvard, 1902; Ph.D., Harvard, 1907.
- RICHARD OLDING BEARD, M.D., Associate Professor of Physiology, and Assistant Dean and Secretary of the Medical School
M.D., Northwestern, 1882.
- †EMIL HESSEL BECKMAN, Ph.B., M.D., Associate Professor of Surgery
Ph.B., Grinnell, 1894; M.D., Minnesota, 1901.
- ELEXIOUS THOMPSON BELL, M.D., Associate Professor of Pathology
B.S., Missouri, 1901; M.D., Missouri, 1903.
- JOHN WESLEY BELL, M.D., Professor of Clinical Medicine and Physical Diagnosis, Emeritus
M.D., Ohio Medical College, 1876.
- WILBUR H. BENDER, M.Di., Ph.B., B.S. in Agr. Educ., Associate Professor of Agricultural Education
M.Di., Iowa State Teachers' College, 1890; Ph.B., Iowa, 1895; B.S. in Agr. Educ., Ames, 1914.
- ALVA HARTLEY BENTON, M.S., Assistant Professor of Farm Management, and Assistant Farm Management Investigator, Agricultural Experiment Station
B.S. in Agr., Ohio State University, 1912; M.S., Pennsylvania State College, 1913.
- HERBERT FLOYD BERGMAN, B.S., M.A., Assistant Professor of Botany
B.S., Kansas State Agricultural College, 1905; M.A., Minnesota, 1914.
- JOSEPHINE THORNDYKE BERRY, M.A., Professor of Nutrition, Chief of the Division of Home Economics
B.A., Kansas, 1893; B.S., Columbia, 1904; M.A., Columbia, 1910.

* Leave of absence, 1916-17.

† Died, November 7, 1916.

- ALICE BIESTER, M.A., Assistant Professor of Nutrition
B.A., Illinois, 1912; M.A., Illinois, 1913.
- FRANK S. BISSELL, M.D., Assistant Professor of Roentgenology
M.D., Minnesota, 1902; Graduate work at Vienna, 1907-08.
- WAYNE WILLIAM BISSELL, B.S., M.D., Assistant Professor of Pathology
B.S., Wisconsin, 1909; M.D., Rush Medical College, 1911.
- ROY GILLISPIE BLAKEY, Ph.D., Assistant Professor of Economics
Ph.B., Drake University, 1905; M.A., University of Colorado, 1910; Ph.D., Columbia, 1912.
- WALTER M. BOOTHBY, M.D., M.A., Assistant Professor of Medicine
B.A., Harvard, 1902; M.D., Harvard, 1906; M.A., Harvard, 1907.
- ANDREW BOSS, Professor of Agronomy and Farm Management, Chief of the Division of Agronomy and Farm Management, and Agronomist and Farm Management Investigator, Agricultural Experiment Station
- GISLE CHRISTIAN JOHNSON BOTHNE, M.A., Professor of Scandinavian Languages and Literature, Head of the Department of Scandinavian Languages
B.A., Luther College, 1878; B.A., Northwestern, 1879; M.A., Luther College, 1883.
- WILLARD L. BOYD, D.V.S., Assistant Professor of Veterinary Science, and Assistant Veterinarian, Agricultural Experiment Station
D.V.S., Kansas City Veterinary College, 1909.
- WILLIAM FREDERICK BRAASCH, B.S., M.D., Professor of Urology
B.S., Minnesota, 1900; M.D., Minnesota, 1903.
- PETER JOHN BREKHUS, D.D.S., Associate Professor of Crown and Bridge Work
B.A., Augsburg, 1902; D.D.S., Minnesota, 1910.
- WILFRID GORDON BRIERLEY, M.S. in Hort., Assistant Professor of Horticulture, Chairman of the Division of Horticulture and Assistant Horticulturist, Agricultural Experiment Station
B.S.A., Cornell, 1906; M.S. in Hort., Washington State College, 1913.
- WILLIAM ELLSWORTH BROOKE, B.C.E., M.A., Professor of Mathematics and Mechanics, Head of the Department of Mathematics and Mechanics, College of Engineering and Architecture
B.C.E., Nebraska, 1892; M.A., Nebraska, 1896.
- CARLETON BROWN, Ph.D., Professor of English
B.A., Carleton, 1888; M.A., Harvard, 1901; Ph.D., Harvard, 1903.
- CHARLES EVERARD BROWN, Assistant Professor and Poultryman, Northwest School of Agriculture and Experiment Station, Crookston Graduate, Ontario Agricultural College, 1905.
- EDGAR DEWIGHT BROWN, Phm.D., M.D., Associate Professor of Pharmacology
Phm.G., New York College of Pharmacy, 1898; Phm.D., New York College of Pharmacy, 1899; M.D., Western Reserve, 1902.
- SOLON JUSTUS BUCK, Ph.D., Assistant Professor of History
B.A., Wisconsin, 1904; M.A., Wisconsin, 1905; Ph.D., Harvard, 1911.

- COATES PRESTON BULL, B.S. in Agr., Professor of Agronomy and Associate Agronomist, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1901.
- FRANK EARL BURCH, M.D., Assistant Professor of Ophthalmology and Oto-Laryngology
M.D., Minnesota, 1897.
- OSCAR CARL BURKHARD, Ph.D., Assistant Professor of German
B.A., Minnesota, 1901; M.A., Minnesota, 1904; Ph.D., Chicago, 1915.
- RICHARD BURTON, Ph.D., Professor of English, Head of the Department of English
B.A., Trinity, 1883; Ph.D., Johns Hopkins, 1888; LL.D., Trinity, 1906.
- WILLIAM HENRY BUSSEY, Ph.D., Associate Professor of Mathematics
B.A., Northwestern, 1900; M.A., Harvard, 1902; Ph.D., Chicago, 1904.
- *FREDERIC KING BUTTERS, B.S., B.A., Assistant Professor of Botany
B.S., Minnesota, 1899; B.A., Harvard, 1900.
- LEROY CADY, B.S. in Agr., Associate Professor of Horticulture, and Associate Horticulturist, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1907.
- RUSSELL DANIEL CARMAN, M.D., Professor of Roentgenology
M.D., Marion-Sims College of Medicine, 1901.
- EDWARD G. CHEYNEY, B.A., Professor of Forestry, Director of the College of Forestry, and Forester, Agricultural Experiment Station
B.A., Cornell, 1900; Graduate work at Yale Forest School, 1904-05.
- PETER CHRISTIANSON, B.S., E.M., Professor of Metallurgy
B.S., Minnesota, 1890; B.E.M., Minnesota, 1894; E.M., Minnesota, 1898.
- JAMES TRENT CHRISTISON, M.D., Professor of Pediatrics, Emeritus
M.D., Minnesota, 1901.
- FREDERIC EDWARD CLEMENTS, Ph.D., Professor of Botany, Head of the Department of Botany
B.S., Nebraska, 1894; M.A., Nebraska, 1896; Ph.D., Nebraska, 1898.
- LOTUS D. COFFMAN, Ph.D., Professor of Education and Dean of the College of Education
B.A., Indiana, 1896; M.A., Indiana, 1910; Ph.D., Columbia, 1911.
- ALEXANDER R. COLVIN, M.D., Assistant Professor of Surgery
M.D., McGill, 1894.
- ELTING HOUGHTALING COMSTOCK, M.S., Professor of Mine Plant and Mechanics, Head of the Department of Mine Plant and Mechanics, School of Mines
B.S., Wisconsin, 1897; M.S., Minnesota, 1907.
- LOUIS JOSEPH COOKE, M.D., Director of Health and Physical Education for Men, Medical Examiner, and Director of Gymnasium
M.D., Vermont, 1894.
- OSCAR COOPERMAN, D.D.S., Assistant Professor of Prosthetic Dentistry
D.D.S., Minnesota, 1911.

* Leave of absence, 1916-17.

- JAMES FRANK CORBETT, M.D., F.A.C.S., Associate Professor of Experimental Surgery
M.D., Minnesota, 1896.
- RALPH W. COUNTRYMAN, D.D.S., Assistant Professor of Operative Dentistry
D.D.S., Minnesota, 1908.
- NORMAN JEFFREY COX, D.D.M., Assistant Professor of Operative Dentistry
B.S., Minnesota, 1898; D.D.M., Minnesota, 1901.
- HARDIN CRAIG, Ph.D., Professor of English
B.A., Center College, 1897; M.A., Princeton, 1899; Ph.D., Princeton, 1901.
- ALVIN SAYLES CUTLER, C.E., Assistant Professor of Railway Engineering
C.E., Minnesota, 1905.
- ROBERT CHESTER DAHLBERG, B.S., Instructor in Agricultural Botany and Seed Analyst, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1913.
- BROR ERIE DAHLGREN, D.D.M., Associate Professor of Dentistry
D.D.M., Minnesota, 1901.
- HANS H. DALAKER, B.A., Assistant Professor of Mathematics
B.A., Minnesota, 1902.
- GEORGE MYRON DAMON, D.D.S., Associate Professor of Prosthetic Dentistry
D.D.S., Minnesota, 1907.
- WILLIAM STEARNS DAVIS, Ph.D., Professor of Ancient History
B.A., Harvard, 1900; M.A., Harvard, 1901; Ph.D., Harvard, 1905.
- WARREN ARTHUR DENNIS, B.L., M.D., Assistant Professor of Surgery
B.L., Wisconsin, 1891; M.A., Harvard, 1901; Ph.D., Harvard, 1905.
- IRA HARRIS DERBY, Ph.D., Assistant Professor of Chemistry
B.S., Harvard, 1899; Ph.D., Chicago, 1910.
- WILLIAM DIETRICH, M.S., Assistant Professor of Dairy and Animal Husbandry, Animal Husbandman, Northwest School of Agriculture and Experiment Station, Crookston
B.S.A., Wisconsin, 1899; M.S., Illinois, 1906.
- MAXWELL J. DORSEY, Ph.D., Associate Professor of Horticulture, in charge of the Section of Fruit Breeding, Agricultural Experiment Station
B.S., Michigan Agricultural College, 1906; M.S. in Agr., Cornell, 1910; Ph.D., Cornell, 1913.
- HAL DOWNEY, Ph.D., Associate Professor of Histology
B.A., Minnesota, 1903; M.A., Minnesota, 1904; Ph.D., Minnesota, 1909.
- EDWARD DANA DURAND, Ph.D., Professor of Statistics and Agricultural Economics, Director of the Bureau of Statistics and Chairman of the Department of Economics, second semester, 1916-17
B.A., Oberlin, 1893; Ph.D., Cornell, 1896.
- JOHN FRANKLIN EBERSOLE, M.A., Assistant Professor of Economics
Ph.B., Chicago, 1907; M.A., Harvard, 1909.

HENRY TURNER EDDY, C.E., Ph.D., LL.D., D.S., Dean of the Graduate School, Emeritus, and Professor of Mathematics and Mechanics, Emeritus

B.A., Yale, 1867; Ph.B., Sheffield Scientific School (Yale), 1868; M.A., Yale, 1870; C.E., Cornell, 1870; Ph.D., Cornell, 1872; LL.D., Center College, 1892; D.S., Yale, 1912.

WILLIAM HARVEY EMMONS, Ph.D., Professor of Geology and Mineralogy, Head of the Department of Geology and Mineralogy
B.A., Central College, 1897; Ph.D., Chicago, 1904.

CHARLES ANDREW ERDMANN, M.D., G.Ph.m., Associate Professor of Applied Anatomy
G.Ph.m., Wisconsin, 1887; M.D., Minnesota, 1893.

HENRY ANTON ERIKSON, Ph.D., Professor of Physics, Head of the Department of Physics
B.E.E., Minnesota, 1896; Ph.D., Minnesota, 1908.

GEORGE BYSSHE EUSTERMAN, M.D., Assistant Professor of Medicine
M.D., Minnesota, 1908.

DONALD NIVISON FERGUSON, B.A., Assistant Professor of Music
B.A., University of Wisconsin, 1904.

INA FIRKINS, B.L., Reference Librarian, University Library
B.L., Minnesota, 1888.

OSCAR W. FIRKINS, M.A., Associate Professor of English
B.A., Minnesota, 1884; M.A., Minnesota, 1898.

CARL FISHER, M.D., Associate Professor of Ophthalmology and Otology
B.S., Carleton, 1901; M.D., Harvard, 1905.

CARL OSCAR FLAGSTAD, D.D.S., Assistant Professor of Prosthetic Dentistry
D.D.S., Minnesota, 1911.

JOHN J. FLATHER, M.M.E., Professor of Mechanical Engineering
Ph.B., Sheffield Scientific School (Yale), 1885; M.M.E., Cornell, 1890.

HENRY JESSE FLETCHER, LL.M., Professor of Law
LL.M., Minnesota, 1902.

*DANIEL FORD, M.A., Assistant Professor of Rhetoric
B.L., Dartmouth, 1899; M.A., Harvard, 1905.

GUY STANTON FORD, Ph.D., Professor of History, Head of the Department of History, and Dean of the Graduate School
B.L., Wisconsin, 1895; Ph.D., Columbia, 1903.

WILLIAM KERR FOSTER, LL.M., Assistant Director of Physical Education for Men
LL.B., Minnesota, 1908; LL.M., Minnesota, 1909.

GEORGE BELL FRANKFORTER, Ph.D., Professor of Chemistry and Dean of the School of Chemistry
B.S., Nebraska, 1886; M.A., Nebraska, 1888; Ph.D., Berlin, 1893.

* Leave of absence, 1916-17.

- EDWARD MONROE FREEMAN, Ph.D., Professor of Plant Pathology and Botany, Assistant Dean of the Department of Agriculture, Chief of the Division of Botany and Plant Pathology, and Pathologist and Botanist, Agricultural Experiment Station
B.S., Minnesota, 1898; M.S., Minnesota, 1899; Ph.D., Minnesota, 1905.
- JULES THEOPHILE FRELIN, B.A., Assistant Professor of Romance Languages
B.A., Minnesota, 1905.
- CARL W. GAY, D.V.M., B.S.A., Professor of Animal Husbandry, Chairman of the Division of Animal Husbandry, and Animal Husbandman, Agricultural Experiment Station
D.V.M., Cornell, 1899; B.S.A., Iowa, 1905.
- GUSTAV W. GEHRAND, Ph.M., Assistant Professor of Dairy Husbandry
Ph.B., Wisconsin, 1903; Ph.M., Wisconsin, 1916.
- EMIL SEBASTIAN THOMAS GEIST, M.D., Assistant Professor of Orthopedic Surgery
M.D., Minnesota, 1900.
- JAMES THAYER GEROULD, B.A., Librarian, University Library
B.A., Dartmouth, 1895.
- *GERHARD ADAM GESELL, B.A., Assistant Professor of Economics, General Extension Division
B.A., Wisconsin, 1908.
- HERBERT ZIEGLER GIFFIN, B.S., M.D., Associate Professor of Medicine
B.S., Princeton, 1900; M.D., Johns Hopkins, 1904.
- HALDOR B. GISLASON, B.A., LL.B., Assistant Professor of Rhetoric
B.A., Minnesota, 1900; LL.B., Minnesota, 1904.
- HENRY SAMUEL GODFREY, D.D.M., Professor of Operative Dentistry
D.D.M., Minnesota, 1897.
- HARRIET IRENE GOLDSTEIN, Assistant Professor of Drawing and Design
Student, Chicago Art Institute, and Chicago Art Academy.
- ROSS AIKEN GORTNER, Ph.D., Associate Professor of Agricultural Biochemistry and Associate Agricultural Biochemist, Agricultural Experiment Station
B.S., Nebraska Wesleyan, 1907; M.A., University of Toronto, 1908; Ph.D., Columbia, 1909.
- CHRISTOPHER GRAHAM, M.D., D.V.M., Professor of Medicine
B.S., Minnesota, 1887; D.V.M., Minnesota, 1892; M.D., Pennsylvania, 1894.
- JOHN EVENSON GRANRUD, Ph.D., Professor of Latin
B.A., Luther College, 1886; M.A., Luther College, 1890; Ph.D., Cornell, 1892.
- †JOHN HENRY GRAY, Ph.D., Professor of Economics and Head of the Department of Economics
B.A., Harvard, 1887; Ph.D., Halle, 1892.
- ROBERT O. GREEN, D.D.S., Associate Professor of Operative Dentistry
D.D.S., Minnesota, 1904.

* Leave of absence, 1916-17.

† Leave of absence, second semester, 1916-17.

- CHARLES ARTHUR GRIFFITH, D.D.S., Associate Professor of Oral Surgery
D.D.S., Minnesota, 1907.
- FRANK FITCH GROUT, M.S., Assistant Professor of Geology and Mineralogy
B.S., Minnesota, 1904; M.S., Minnesota, 1908.
- THEOPHILUS LEVI HAECCKER, Professor of Animal Nutrition and Chairman of the Division of Animal Nutrition, Agricultural Experiment Station
- MELVIN EVERETT HAGGERTY, Ph.D., Professor of Educational Psychology
B.A., Indiana, 1902; M.A., Harvard, 1909; Ph.D., Harvard, 1910.
- ROBERT ANDERSON HALL, Ph.D., Assistant Professor of Pharmacology
B.A., Chicago, 1905; Ph.D., Chicago, 1907.
- ARTHUR S. HAMILTON, M.D., Professor of Nervous and Mental Diseases, in charge of the Division of Nervous and Mental Diseases
B.S., Iowa, 1894; M.D., Pennsylvania, 1897.
- ERNEST MARTIN HAMMES, M.D., Assistant Professor of Nervous and Mental Diseases
M.D., Minnesota, 1906.
- EVERHART PERCY HARDING, Ph.D., Associate Professor of Chemistry
B.A., Minnesota, 1894; M.S., Minnesota, 1895; Ph.D., Heidelberg, 1900.
- THOMAS BRADFORD HARTZELL, D.D.M., M.D., Professor of Oral Surgery, Therapeutics, and Clinical Pathology, College of Dentistry, and Research Professor of Mouth Infections, School of Medicine
D.D.M., Minnesota, 1893; M.D., Minnesota, 1894.
- HERBERT KENDALL HAYES, M.S., Associate Professor of Plant Breeding
B.S., Massachusetts Agricultural College, 1908; M.S., Harvard, 1911.
- MELVIN STARKEY HENDERSON, M.D., Associate Professor of Orthopedics
M.B., Toronto, 1906; M.D., Toronto, 1914.
- EDGAR C. HIGBIE, M.A., Superintendent of West Central School of Agriculture, Morris
B.A., Minnesota, 1907; M.A., Minnesota, 1909.
- ARTHUR DOUGLASS HIRSCHFELDER, M.D., Professor of Pharmacology, Director of the Department of Pharmacology
B.S., California, 1897; M.D., Johns Hopkins, 1903.
- WILLIAM FRANK HOLMAN, Ph.D., Assistant Professor of Mathematics and Mechanics
B.S., Nebraska, 1904; M.A., Nebraska, 1906; Ph.D., Goettingen, 1908.
- EDWARD W. D. HOLWAY, Assistant Professor of Botany
- CHARLES WALTER HOWARD, M.S., Assistant Professor of Parasitology and Entomology and Assistant Entomologist, Agricultural Experiment Station
B.A., Cornell, 1904; M.S., Minnesota, 1913.
- GEORGE FRANKLIN HOWARD, Assistant Professor, Rural School Specialist, Agricultural Extension Division

- SAMUEL LESLIE HOYT, E.M., Ph.D., Assistant Professor of Metallurgy
E.M., Minnesota, 1909; Ph.D., Columbia, 1914.
- NED L. HUFF, M.A., Assistant Professor of Botany
B.A., Minnesota, 1903; M.A., Minnesota, 1906.
- WILLIAM HAMMETT HUNTER, Ph.D., Associate Professor of Chemistry
B.A., Harvard, 1904; M.A., Harvard, 1905; Ph.D., Harvard, 1910.
- JOHN CORRIN HUTCHINSON, B.A., Professor of Greek, Head of the Department of Greek
B.A., Minnesota, 1876.
- CLARENCE MARTIN JACKSON, M.D., Professor of Anatomy, Director of the Department of Anatomy
B.S., Missouri, 1898; M.S., Missouri, 1899; M.D., Missouri, 1900.
- FRANCIS JAGER, Professor of Bee Culture, Chief of the Division of Bee Culture, and Apiculturist, Agricultural Experiment Station
- ALBERT ERNEST JENKS, Ph.D., Professor of Anthropology, Chairman of the Department of Sociology and Anthropology
B.S., Kalamazoo College, 1896; B.S., Chicago, 1897; Ph.D., Wisconsin, 1899.
- JOHN B. JOHNSTON, Ph.D., Professor of Comparative Neurology, Dean of the College of Science, Literature, and the Arts
Ph.B., Michigan, 1893; Ph.D., Michigan, 1899.
- ROY CHILDS JONES, M.S. in Arch., Assistant Professor of Architecture
B.S. in Arch., Pennsylvania, 1908; M.S. in Arch., Pennsylvania, 1914.
- EDWARD STARR JUDD, M.D., Associate Professor of Surgery
M.D., Minnesota, 1902.
- EDWARD CALVIN KENDALL, Ph.D., Assistant Professor of Biochemistry
B.S., Columbia, 1908; M.A., Columbia, 1910; Ph.D., Columbia, 1910.
- FRANK L. KENNARD, B.S.A., Agronomist and Assistant Professor, Northwest School of Agriculture and Experiment Station, Crookston
B.S.A., South Dakota, 1906.
- WILLIAM HENRY KENETY, M.S., Assistant Professor of Forestry, in charge of Cloquet Forest Experiment Station
B.S. in For., Minnesota, 1911; M.S., Minnesota, 1912.
- HOWARD CARL HENRY KERNKAMP, D.V.M., Assistant Professor of Veterinary Science and Assistant Veterinarian, Agricultural Experiment Station
D.V.M., Ohio State, 1914.
- DAVID LITCHARD KIEHLE, LL.D., Professor of Education, Emeritus
B.A., Hamilton College, 1861; M.A., Hamilton, 1864; LL.D., Hamilton, 1887.
- HENRY HERBERT KILDEE, B.S.A., Professor of Dairy Husbandry, Chairman of the Division of Dairy Husbandry, and Dairy Husbandman, Agricultural Experiment Station
B.S.A., Iowa, 1908.
- WILLIAM HERMAN KIRCHNER, B.S., Professor of Drawing and Descriptive Geometry, Head of the Department of Drawing and Descriptive Geometry
B.S., Worcester Polytechnic, 1887.

- WILLIAM PAUL KIRKWOOD, B.A., Editor of Bulletins, Associate Professor of Journalism, and Chief of the Division of Publications
B.A., Macalester, 1890.
- FREDERICK KLAEBER, Ph.D., Professor of Comparative and English Philology, Head of the Department of Comparative Philology
Ph.D., Berlin, 1892.
- RAY ROBERTS KNIGHT, B.A., M.D., Assistant Professor of Oral Surgery, Therapeutics, and Clinical Pathology
B.A., Minnesota, 1903; M.D., Minnesota, 1906.
- AUGUST CHARLES KREY, Ph.D., Assistant Professor of History
B.A., Wisconsin, 1907; M.A., Wisconsin, 1908; Ph.D., Wisconsin, 1914.
- SAMUEL KROESCH, Ph.D., Assistant Professor of German
B.A., Missouri, 1901; Ph.D., Chicago, 1909.
- EDWIN M. LAMBERT, M.E., Assistant Professor of Mine Plant and Mechanics
M.E., Minnesota, 1909.
- ROBERT CHEEK LANSING, M.A., Assistant Professor of Rhetoric and Chief of the Section of Rhetoric, Agricultural College
B.S., Nebraska, 1899; M.A., Nebraska, 1901.
- WINFORD PORTER LARSON, M.D., Associate Professor of Bacteriology
M.D., Illinois, 1904.
- WILLIAM FREDERICK LASBY, B.A., D.D.S., Associate Professor of Prosthetic Dentistry and Orthodontia
B.A., Carleton, 1900; D.D.S., Minnesota, 1903.
- ARTHUR AYER LAW, M.D., F.A.C.S., Associate Professor of Surgery
M.D., Minnesota, 1894.
- HARRY COMEGYS LAWTON, D.D.S., Associate Professor of Prosthetic Dentistry, Orthodontia, and Dental Metallurgy
D.D.S., Minnesota, 1908.
- FRANCIS P. LEAVENWORTH, M.A., Professor of Astronomy, Head of the Department of Astronomy
B.A., Indiana, 1880; M.A., Indiana, 1887.
- THOMAS GEORGE LEE, M.D., Professor of Comparative Anatomy
B.S., Pennsylvania; M.D., Pennsylvania, 1886; B.S., Harvard, 1892.
- *EDWARD M. LEHNERTS, M.A., Assistant Professor of Geography, General Extension Division
B.S., Pennsylvania, 1902; M.A., Minnesota, 1908.
- JENNINGS CRAWFORD LITZENBERG, M.D., Professor of Obstetrics, and Chief of the Department of Obstetrics
B.S., Minnesota, 1894; M.D., Minnesota, 1899.
- RUPERT CLENDON LODGE, M.A., Assistant Professor of Philosophy
B.A., Oxford, 1909; M.A., Oxford, 1912.
- ARCHIBALD HODGE LOGAN, M.D., Assistant Professor of Clinical Medicine
M.D., Pennsylvania, 1907.

* Leave of absence, 1916-17.

- ERNEST GUSTAV LORENZEN, Ph.B., LL.B., J.U.D., Professor of Law
Ph.B., Cornell, 1898; LL.B., Cornell, 1899; J.U.D., Goettingen, 1901.
- ELMER JULIUS LUND, Ph.D., Assistant Professor of General Physiology
Ph.B., Hamline, 1910; Ph.D., Johns Hopkins, 1914.
- WILLIAM FOSTER LUSK, Ph.B., M.S., Assistant Professor of Agricultural
Education
Ph.B., Wisconsin, 1903; M.S., Minnesota, 1916.
- ELIAS POTTER LYON, Ph.D., M.D., Professor of Physiology, Dean of
the Medical School, and Director of the Department of Physiology
B.S., Hillsdale, 1891; B.A., Hillsdale, 1892; Ph.D., Chicago, 1897; M.D. (Hon.)
St. Louis University, 1910.
- THOMAS MONTGOMERY MCCALL, Assistant Professor of Horticulture,
Northwest School of Agriculture and Experiment Station, Crook-
ston
B.S.A., Ames, 1910.
- EDWARD PROSPER MCCARTHY, E.M., Professor of Mining, Head of the
Department of Mining
E.M., Minnesota, 1900.
- WILLIAM C. MACCARTY, M.D., M.S., Associate Professor of Pathology
B.S., M.S., Kentucky, 1900; M.D., Johns Hopkins, 1904.
- J. F. MCCLENDON, Ph.D., Assistant Professor of Physiology
B.S., Texas, 1903; M.S., Texas, 1904; Ph.D., Pennsylvania, 1906.
- WILLIAM MCDUGALL, D.D.S., Assistant Professor of Crown and Bridge
Work
D.D.S., Minnesota, 1911.
- ARTHUR JAMES MCGUIRE, B.Agr., Instructor in Dairy Husbandry,
Central School of Agriculture, and Dairy Farm Management
Specialist with the rank of Associate Professor, Agricultural Ex-
tension
B. Agr., Minnesota, 1904.
- LOUIS WILLIAMS MCKEEHAN, Ph.D., Assistant Professor of Physics
B.S. in Eng., Minnesota, 1908; M.S., Minnesota, 1909; Ph.D., Minnesota, 1911.
- ARCHIBALD MACLAREN, M.D., Associate Professor of Surgery
B.S., Princeton, 1880; M.D., College of Physicians and Surgeons (New York), 1883.
- FRANKLIN R. McMILLAN, C.E., Assistant Professor of Experimental
Engineering
C.E., Minnesota, 1905.
- JOHN SILLIMAN MACNIE, M.D., Assistant Professor of Ophthalmology
and Oto-Laryngology
B.A., North Dakota, 1893; M.D., Columbia, 1896.
- ARTHUR TEALL MANN, M.D., Associate Professor of Surgery
B.S., Minnesota, 1888; M.D., Harvard, 1896.
- FRANK CHARLES MANN, M.D., M.A., Assistant Professor of Experi-
mental Surgery and Pathology
B.A., Indiana, 1911; M.D., Indiana, 1913; M.A., Indiana, 1914.

- FREDERICK MAYNARD MANN, M.S. in Arch., Professor of Architecture, Head of the Department of Architecture
B.C.E., Minnesota, 1892; B.S. in Arch., Massachusetts Institute of Technology, 1894; M.S. in Arch., Massachusetts Institute of Technology, 1895; C.E., Minnesota, 1898.
- JOHN VAN SICKLE MARTENIS, M.E., Assistant Professor of Mechanical Engineering
M.E., Lehigh, 1894.
- JUSTUS MATTHEWS, M.D., Associate Professor of Rhinology and Laryngology
M.D., Minnesota, 1905.
- HERMAN ALBERT MAVES, D.D.S., Associate Professor of Oral Surgery
D.D.S., Minnesota, 1905.
- RICHARD SAMUEL MAYBURY, D.D.S., Assistant Professor of Operative Dentistry
D.D.S., Minnesota, 1911.
- DEXTER DWIGHT MAYNE, Professor of Agricultural Pedagogics, and Principal of Central School of Agriculture
- CHARLES HORACE MAYO, M.D., M.A., LL.D., Professor of Surgery
M.D., Northwestern, 1888; M.A., Northwestern, 1902; LL.D., Maryland, 1909.
- OWEN RIGGS MEREDITH, Assistant Professor of Military Science
Graduate of West Point, 1908.
- ADOLPH FREDERICK MEYER, C.E., Associate Professor of Hydraulics
B.S.C.E., Wisconsin, 1905; C.E., Wisconsin, 1909.
- WILFORD STANTON MILLER, M.A., Assistant Professor of Education, Principal of the University High School
B.A., Indiana, 1910; M.A., Indiana, 1911.
- *THOMAS WARNER MITCHELL, Ph.D., Assistant Professor of Business Administration
B.A., Washington, 1900; Ph.D., Pennsylvania, 1905.
- JOSEPH S. MONTGOMERY, B.S. in Agr., Assistant Professor of Animal Husbandry, and Assistant Animal Husbandman, Agricultural Experiment Station
B.S. in Agr., Kansas State Agricultural College, 1907.
- ALEXANDER BERKELEY MOORE, M.D., Assistant Professor of Roentgenology
M.D., Virginia, 1907.
- JAMES EDWARD MOORE, M.D., Professor of Surgery, Chief of the Department of Surgery
M.D., Bellevue Hospital Medical College, 1873.
- WILLIAM MOORE, B.A., Assistant Professor of Research in Economic Entomology, and Assistant Entomologist, Agricultural Experiment Station
B.A., Ursinus College, 1907; Graduate Work at Cornell, 1907-10.
- EDMUND MORRIS MORGAN, JR., M.A., LL.B., Professor of Law
B.A., Harvard, 1902; M.A., Harvard, 1903; LL.B., Harvard, 1905.

* Leave of absence, 1916-17.

- ANGUS WASHBURN MORRISON, M.D., Assistant Professor of Nervous and Mental Diseases
B.A., Yale, 1906; M.D., Johns Hopkins, 1910.
- GEORGE W. MOSES, Professor of Military Science and Tactics, Head of the Military Department
- JASON L. MOWRY, M.Di., Assistant Professor of Agricultural Engineering
M.Di., Iowa State Teachers' College, 1898.
- JOHN F. MURPHY, C.E., Associate Professor of Mining
C.E., Minnesota, 1906.
- WILLIAM ROBBINS MURRAY, M.D., Associate Professor of Ophthalmology and Oto-Laryngology
Ph.B., Michigan, 1892; M.D., Rush Medical College, 1897.
- ROBERT DANIEL MUSSEY, M.D., Assistant Professor of Clinical Medicine
M.D., Cincinnati, 1908.
- WALTER RALEIGH MYERS, Ph.D., Assistant Professor of German
Ph.B., Northwestern University, 1903; Ph.D., Chicago, 1909.
- HENRY F. NACHTRIEB, B.S., Professor of Animal Biology, Head of the Department of Animal Biology
B.S., Minnesota, 1882.
- GORDON B. NEW, D.D.S., M.B., M.D., Assistant Professor of Rhinology, Laryngology, and Stomatology
D.D.S., Toronto, 1906; M.B., Toronto, 1909; M.D., Toronto, 1915.
- EDWIN LEIGH NEWCOMB, Phm.M., Associate Professor of Pharmaceutical Botany and Pharmacognosy
Phm.D., Philadelphia College of Pharmacy, 1905; Phm.M., Philadelphia College of Pharmacy, 1914.
- HORACE NEWHART, M.D., Assistant Professor of Oto-Laryngology
B.A., Dartmouth, 1895; Michigan, 1898.
- BERT LEROY NEWKIRK, Ph.D., Assistant Professor of Mathematics and Mechanics
B.A., Minnesota, 1897; M.A., Minnesota, 1899; Ph.D., Munich, 1902.
- CHARLES WASHBURN NICHOLS, M.A., Assistant Professor of Rhetoric
B.A., Yale, 1905; M.A., Yale, 1907.
- EDWARD E. NICHOLSON, M.A., Assistant Professor of Chemistry, Assistant Dean of the College of Science, Literature, and the Arts
B.S., Nebraska, 1894; M.A., Nebraska, 1896.
- JULIA ANNA NORRIS, M.D., Director of Health and Physical Education for Women
M.D., Northwestern, 1900.
- GEORGE NORTON NORTHROP, M.A., Assistant Professor of English
B.L., Minnesota, 1901; M.A., Minnesota, 1907.
- WALLACE NOTESTEIN, Ph.D., Associate Professor of History
B.A., Wooster, 1900; M.A., Yale, 1903; Ph.D., Yale, 1908.
- OSCAR WILLIAM OESTLUND, Ph.D., Assistant Professor of Animal Biology
B.A., Augustana, 1879; M.A., Augustana, 1887; Ph.D., Augustana, 1900.

- EVERETT WARD OLMSTED, Ph.D., Professor of Romance Languages and Head of the Department of Romance Languages
Ph.B., Cornell, 1891; Ph.D., Cornell, 1897.
- PETER JOHN OLSON, M.S., Assistant Professor of Agronomy, and Assistant Agronomist, Agricultural Experiment Station
B.S., North Dakota Agricultural College, 1910; M.S., Illinois, 1913.
- FORREST HOY ORTON, D.D.S., Professor of Crown and Bridge Work
D.D.S., California, 1890.
- WIELAND LEO OSWALD, Assistant Professor of Agricultural Botany, and Assistant Botanist and Seed Analyst in charge of Seed Testing Laboratory, Agricultural Experiment Station
- ALFRED OWRE, B.A., M.D., C.M., D.D.M., Dean of the College of Dentistry, Professor of Theory and Practice of Dentistry and Dental Metallurgy
D.D.M., Minnesota, 1894; M.D., C.M., Minneapolis College of Physicians and Surgeons, 1895; B.A., Minnesota, 1910.
- OSCAR OWRE, M.D., C.M., F.A.C.S., Assistant Professor of Urology
M.D., C.M., Minneapolis College of Physicians and Surgeons, 1903.
- ALFRED ALBERT PAGENKOPF, D.D.S., Associate Professor of Crown and Bridge Work
D.D.S., Minnesota, 1909.
- JAMES PAIGE, M.A., LL.M., Professor of Law
B.A., Princeton, 1887; M.A., Princeton, 1888; LL.B., Minnesota, 1890; LL.M., Minnesota, 1893.
- CHARLES CONGER PALMER, D.V.M., M.S., Assistant Professor of Physiology, and Assistant Veterinarian, Agricultural Experiment Station
D.V.M., Ohio State, 1912; M.S., Minnesota, 1912.
- JOHN IRA PARCEL, B.S. in C.E., B.A., Associate Professor of Structural Engineering
B.A., Westfield, 1903; B.S. in C.E., Illinois, 1909.
- THOMAS GEORGE PATERSON, B.S. in Agr., Assistant Professor of Animal Husbandry, and Assistant Animal Husbandman, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1909.
- SIDNEY FAWCETT PATTISON, M.A., Assistant Professor of Rhetoric
B.A., Rochester, 1898; B.A., Williams, 1899; M.A., Harvard, 1908.
- MARK OTIS PATTRIDGE, D.D.S., Assistant Professor of Operative Dentistry
D.D.S., Minnesota, 1910.
- LEVI BECKLEY PEASE, M.S., Professor of Metallurgy
B.S., Minnesota, 1898; M.S., Minnesota, 1899.
- FRANCIS WINFRED PECK, B.S. in Agr., Assistant Professor of Farm Management and Assistant Farm Management Investigator, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1912.
- JOSEPH PETERSON, Ph.D., Assistant Professor of Psychology
B.S., Chicago, 1900; Ph.D., Chicago, 1907.

- CARL HALMER PETRI, D.D.S., Assistant Professor of Prosthetic Dentistry and Dental Anatomy
D.D.S., Minnesota, 1910.
- ANNA AUGUSTA HELMHOLTZ-PHELAN, Ph.D., Assistant Professor of Rhetoric
B.A., Wisconsin, 1905; M.A., Wisconsin, 1906; Ph.D., Wisconsin, 1908.
- RUTH SHEPARD PHELPS, M.A., Assistant Professor of Romance Languages
B.L., Smith, 1899; M.A., Columbia, 1910.
- JOSEPH BROWN PIKE, M.A., Professor of Latin, Head of the Department of Latin
B.A., Minnesota, 1890; M.A., Minnesota, 1892.
- HENRY STANLEY PLUMMER, M.D., Professor of Medicine
M.D., Northwestern, 1898.
- CHESSLEY JUSTIN POSEY, M.S., Assistant Professor of Geography
B.S., Illinois, 1900; M.S., Chicago, 1905.
- LOUISE MATHILDE POWELL, R.N., Superintendent of the School for Nurses
Special Diploma in Education, Department Hospital Economics, Teacher's College, New York City, 1910.
- CHARLES HERBERT PRESTON, B.A., Assistant Professor of Business Administration, General Extension Division
B.A., Wisconsin, 1906.
- RICHARD REES PRICE, M.A., Director of General Extension Division
B.A., Kansas, 1897; B.A., Harvard, 1900; M.A., Harvard, 1901.
- WALTER REEVE RAMSEY, M.D., Associate Professor of Pediatrics
M.D., Minnesota, 1896.
- ALBERT WILLIAM RANKIN, B.A., Professor of Education
B.A., Minnesota, 1880.
- FRANK MILLER RARIG, M.A., Assistant Professor of Rhetoric and Public Speaking
B.A., Northwestern, 1903; M.A., Northwestern, 1905.
- SOREN P. REES, B.S., M.D., Assistant Professor of Medicine
B.S., Minnesota, 1895; M.D., Minnesota, 1897.
- GEORGE WESTFALL REYNOLDS, D.D.S., Associate Professor of Crown and Bridge Work
D.D.S., Minnesota, 1910.
- MYRON HERBERT REYNOLDS, D.V.M., M.D., G.Ph.m., Professor of Veterinary Medicine and Surgery, Chairman of the Division of Veterinary Science, and Veterinarian, Agricultural Experiment Station
B.S., Iowa Agricultural College, 1886; D.V.M., Iowa Agricultural College, 1889; M.D. and G.Ph.m., Iowa College of Physicians and Surgeons (Drake University), 1891.
- CHARLES EUGENE RIGGS, M.A., M.D., Professor of Nervous and Mental Diseases, Emeritus
B.A., Ohio Wesleyan, 1877; M.A., Ohio Wesleyan, 1880; M.D., College of Physicians and Surgeons (Baltimore), 1880.

- HARRY PARKS RITCHIE, Ph.B., M.D., Assistant Professor of Surgery
Ph.B., Sheffield Scientific School (Yale), 1893; M.D., Minnesota, 1896.
- THOMAS SADLER ROBERTS, M.D., Professor of Pediatrics, Emeritus;
Professor of Ornithology and Associate Director of the Zoological
Museum
M.D., Pennsylvania, 1885.
- HAROLD EUGENE ROBERTSON, M.D., Professor of Pathology and Direc-
tor of the Department of Pathology, Bacteriology and Public Health
B.A., Northfield, 1899; M.D., Pennsylvania, 1905.
- SAMUEL ROBINSON, B.A., M.D., Assistant Professor of Surgery
B.A., Harvard, 1898; M.D., Harvard, 1902.
- HARRY BURGESS ROE, B.S., Assistant Professor of Mathematics
B.S. in Eng., Minnesota, 1908.
- CHARLES H. ROGERS, B.S. in Phm., M.Ph. Assistant Professor of
Pharmacy
B.S. in Phm., Michigan, 1913; M.Ph., Minnesota, 1916.
- JOHN THOMAS ROGERS, M.D., Associate Professor of Surgery
M.D., Minnesota, 1891.
- WILLIAM A. ROLL, D.D.S., Assistant Professor of Crown and Bridge Work
D.D.S., Minnesota, 1911.
- CARL OTTO ROSENDAHL, Ph.D., Professor of Botany
B.S., Minnesota, 1901; M.A., Minnesota, 1902; Ph.D., Berlin, 1905.
- EDWARD CARL ROSENOW, M.D., Professor of Experimental Bacteriology
M.D., Rush Medical, 1902.
- JOHN LINCOLN ROTHROCK, M.A., M.D., Associate Professor of Ob-
stetrics and Gynecology
B.A., Pennsylvania College, 1885; M.A., Pennsylvania College, 1888; M.D.,
University of Pennsylvania, 1888.
- CLARE LEO ROTZEL, B.C.S., C.P.A., Associate Professor of Accounting,
General Extension Division
B.C.S., New York University, 1907; C.P.A., University of the State of New York,
1907.
- FRANK BENJAMIN ROWLEY, M.E., Assistant Professor of Drawing and
Descriptive Geometry
B.S., Wisconsin, 1905; M.E., Wisconsin, 1906.
- LEONARD GEORGE ROWNTREE, M.D., Professor of Medicine, Chief of
the Department of Medicine
M.D., Western Medical School, 1905.
- CHARLES EUGENE RUDOLPH, D.D.S., Assistant Professor of Dental
Anatomy and Prosthetic Dentistry
D.D.S., Minnesota, 1911.
- ARTHUR GORDON RUGGLES, M.A., Associate Professor of Economic
Entomology, and Assistant Entomologist, Agricultural Experi-
ment Station
B.S.A., Cornell, 1901; M.A., Cornell, 1904.
- WILLIAM THOMAS RYAN, E.E., Assistant Professor of Electrical Engi-
neering
E.E., Minnesota, 1905.

- ARTHUR HAWLEY SANFORD, M.A., M.D., Associate Professor of Clinical Bacteriology and Parasitology
B.A., Northwestern, 1904; M.A., Northwestern, 1907; M.D., Northwestern, 1907.
- MARIA LOUISA SANFORD, Professor of Rhetoric, Emeritus
- CHARLES ALBERT SAVAGE, Ph.D., Professor of Greek
B.A., Johns Hopkins, 1895; Ph.D., Johns Hopkins, 1903.
- RICHARD EVERINGHAM SCAMMON, Ph.D., Professor of Anatomy
B.A., Kansas, 1904; M.A., Kansas, 1906; Ph.D., Harvard, 1909.
- WILLIAM A. SCHAPER, Ph.D., Professor of Political Science, Head of the Department of Political Science
B.L., Wisconsin, 1895; M.A., Columbia, 1898; Ph.D., Columbia, 1901.
- CARL SCHLENKER, B.A., Professor of German, Chairman of the Department of German
B.A., Michigan, 1892.
- FREDERICK WILLIAM SCHLUTZ, B.A., M.D., Assistant Professor of Pediatrics
B.A., Wartburg College, 1898; M.D., Maryland, 1902.
- CARLYLE MACROBERTS SCOTT, Professor of Music
- FREDERICK HUGHES SCOTT, M.B., Ph.D., D.S., Associate Professor of Physiology
B.A., Toronto, 1897; Ph.D., Toronto, 1899; M.B., Toronto, 1906; D.S., London, 1908.
- JULIUS PARKER SEDGWICK, B.S., M.D., Professor of Pediatrics, in charge of the Division of Pediatrics
B.S., Nebraska, 1896; M.D., Rush Medical College, 1899.
- COLBERT SEARLES, Ph.D., Professor of Romance Languages
B.A., Wesleyan, 1895; Ph.D., Leipzig, 1899.
- CONRAD GEORGE SELVIG, M.A., Superintendent, with rank of Professor, Northwest School of Agriculture and Experiment Station, Crookston
B.A. in Educ., Minnesota, 1907; M.A., Minnesota, 1908.
- WALTER DE WITT SHELDON, M.D., Associate Professor of Medicine
B.S., Wisconsin, 1891; M.D., Rush Medical, 1895.
- JOSEPH FREDERICK SHELLMAN, D.D.S., Assistant Professor of Operative Dentistry
D.D.S., Minnesota, 1905.
- FRANCIS CLINTON SHENEHON, C.E., Professor of Civil Engineering and Dean of the College of Engineering and Architecture
B.C.E., Minnesota, 1895; C.E., Minnesota, 1900.
- GEORGE DEFREES SHEPARDSON, M.A., M.E., D.S., Professor of Electrical Engineering, Head of the Department of Electrical Engineering
B.A., Denison, 1885; M.A., Denison, 1888; M.E., Cornell, 1889; D.S. Harvard, 1912.
- S. CARL SHIPLEY, M.E., Assistant Professor of Machine Construction
B.S., Missouri, 1900; B.S. in Eng., Cincinnati, 1901; M.E., Cincinnati, 1903.

- CHARLES FRANKLIN SHOOP, B.S., Assistant Professor of Experimental Engineering
B.S. (Pure Mathematics), Pennsylvania State, 1901; B.S. in Mech. Eng., Pennsylvania State, 1904.
- ROYAL RUSS SHUMWAY, B.A., Assistant Professor of Mathematics
B.A., Minnesota, 1903.
- *CHARLES FREDERICK SIDENER, B.S., Professor of Chemistry
B.S., Minnesota, 1883.
- CHARLES PETER SIGERFOOS, Ph.D., Professor of Zoology
B.S., Ohio, 1889; Ph.D., Johns Hopkins, 1897.
- WALTER E. SISTRUNK, M.D., G.Ph.m., Assistant Professor of Surgery
G.Ph.m., Alabama Polytechnic, 1900; M.D., Tulane, 1906.
- CHARLES EVERETT SKINNER, M.A., Assistant Professor of Rhetoric
B.L., Michigan; M.A., Michigan.
- HERMON LESTER SLOBIN, Ph.D., Assistant Professor of Mathematics
B.A., Clark, 1905; Ph.D., Clark, 1908.
- ARTHUR C. SMITH, B.S., Professor of Poultry Husbandry, Chairman of the Division of Poultry Husbandry and Poultry Husbandman, Agricultural Experiment Station
B.S., Massachusetts Institute of Technology, 1892.
- FRANKLIN WESLEY SPRINGER, E.E., Professor of Electrical Engineering
B.E.Eng., Minnesota, 1893; E.E., Minnesota, 1898.
- ELVIN CHARLES STAKMAN, Ph.D., Associate Professor of Plant Pathology, and Associate Plant Pathologist, Agricultural Experiment Station
B.A., Minnesota, 1906; M.A., Minnesota, 1910; Ph.D., Minnesota, 1913.
- CLINTON RAYMOND STAUFFER, Ph.D., Associate Professor of Geology
B.S., Ohio State, 1903; M.A., Ohio State, 1906; Ph.D., Chicago, 1909.
- JOHN T. STEWART, C.E., Professor of Agricultural Engineering, Chief of the Division of Agricultural Engineering and Agricultural Engineer, Agricultural Experiment Station
B.S., Illinois, 1893; C.E., Illinois, 1909.
- JOHN HINCHMAN STOKES, M.D., Assistant Professor of Medicine
B.A., Michigan, 1908; M.D., Michigan, 1912.
- †ELMER EDGAR STOLL, Ph.D., Professor of English
B.A., Wooster, 1893; B.A., Harvard, 1895; M.A., Harvard, 1896; Ph.D., Munich, 1904
- ANDREW ADIN STOMBERG, M.S., Professor of Scandinavian Languages and Literature
B.A., Gustavus Adolphus, 1895; M.S., Minnesota, 1896.
- ASHLEY VAN STORM, M.A., Professor of Agricultural Education, Chief of the Division of Agricultural Education, and Director of Short Courses of Department of Agriculture
Ph.B., Illinois Wesleyan, 1898; M.A., Iowa, 1912.
- ARTHUR CLARENCE STRACHAUER, M.D., Assistant Professor of Surgery
M.D., Minnesota, 1908.

* Leave of absence, first semester, 1916-17.

† Leave of absence, 1916-17.

- *MARGARET SWEENEY, Ph.D., Professor of Rhetoric and Dean of Women
B.A., Radcliffe, 1899; Ph.D., Yale, 1901.
- SAMUEL EDWARD SWEITZER, M.D., Assistant Professor of Dermatology,
in charge of the Division of Dermatology
M.D., Minnesota, 1901.
- DAVID FERDINAND SWENSON, B.S., Associate Professor of Philosophy
B.S., Minnesota, 1898.
- FLETCHER HARPER SWIFT, Ph.D., Professor of Education
B.A., Dartmouth, 1898; B.D., Union Theological Seminary, 1903; M.A., Colum-
bia, 1904; Ph.D., Columbia, 1905.
- THEODORE BURNETT TAYLOR, Associate Professor of Military Science
and Tactics
- ROSCOE WILFRED THATCHER, M.A., Professor of Plant Chemistry, Chief
of the Division of Agricultural Biochemistry, and Assistant Direc-
tor and Plant Chemist, Agricultural Experiment Station
B.S., Nebraska, 1898; M.A., Nebraska, 1901.
- JOSEPH MORRIS THOMAS, Ph.D., Professor of Rhetoric, Head of the
Department of Rhetoric and Public Speaking
Ph.B., Michigan, 1898; M.A., Michigan, 1903; Ph.D., Michigan, 1910.
- MARK JOSEPH THOMPSON, M.S., Superintendent, in charge of the
Northeast Demonstration Farm and Experiment Station, Duluth
B.S. in Agr., Minnesota, 1911; M.S., Minnesota, 1912.
- EDWARD SAMPSON THURSTON, M.A., LL.B., Professor of Law
B.A., Harvard, 1898; M.A., Harvard, 1900; LL.B., Harvard, 1901.
- JOSEPHINE ELIZABETH TILDEN, M.S., Professor of Botany
B.S., Minnesota, 1895; M.S., Minnesota, 1896.
- ARTHUR JAMES TODD, Ph.D., Professor of Sociology
B.L., California, 1904; Ph.D., Yale, 1911.
- FRANK CHISHOLM TODD, M.D., Professor of Ophthalmology and Oto-
laryngology, and Chief of Department
D.D.S., Minnesota, 1891; M.D., Minnesota, 1892.
- MABEL BARBARA TRILLING, B.S. in Educ., Assistant Professor of Tex-
tiles and Clothing
B.S. in Educ., Chicago, 1914.
- HENRY LUDWIG ULRICH, M.D., Assistant Professor of Medicine
B.S., Rutgers, 1897; M.D., Johns Hopkins, 1901.
- ANTHONY LISPENARD UNDERHILL, Ph.D., Assistant Professor of Mathe-
matics
B.S., Chicago, 1900; Ph.D., Chicago, 1906.
- CHARLES E. VAN BARNEVELD, B.C.S., E.M., Professor of Mining Engi-
neering, Emeritus
- WILLIAM REYNOLDS VANCE, Ph.D., LL.B., LL.D., Professor of Law,
and Dean of the Law School
B.A., Washington and Lee University, 1892; M.A., Washington and Lee Univer-
sity, 1893; Ph.D., Washington and Lee University, 1895; LL.B., Washington and
Lee University, 1897; M.A. (Hon.), Yale, 1909, LL.D., Washington and Lee Uni-
versity, 1916.

* Leave of absence, 1916-17.

- MARION LYDIA VANNIER, R.N., Assistant Superintendent of Nurses and Instructor of Nurses
Graduate Johns Hopkins Hospital School for Nurses, 1905. Post Graduate New York Eye and Ear Infirmary. One year in Department of Hospital Economics, Teachers' College, Columbia University, 1916.
- JAMES MILTON WALLS, D.D.M., Professor of Operative Dentistry
D.D.M., Minnesota, 1894.
- FREDERIC LEONARD WASHBURN, M.A., Professor of Entomology, and Economic Vertebrate Zoology, Chairman of the Division of Economic Zoology, and Entomologist, Agricultural Experiment Station
B.A., Harvard, 1882; M.A., Harvard, 1895.
- ROBERT MANN WASHBURN, M.S.A., Professor of Dairy Husbandry, and Associate Dairy Husbandman, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1901; M.S.A., Missouri, 1909.
- OSCAR ALBERT WEISS, D.D.M., Professor of Prosthetic Dentistry and Orthodontia
D.D.M., Minnesota, 1893.
- MARION WELLER, B.A., Assistant Professor of Textiles and Clothing
B.A., Chicago, 1897.
- RICHARD WELLINGTON, M.S., Assistant Professor of Horticulture, and Assistant Horticulturist, Agricultural Experiment Station
B.S., Massachusetts Agricultural College, 1906; M.S., Harvard, 1911.
- AMOS SCHUMPERT WELLS, B.A., D.D.S., Associate Professor of Crown and Bridge Work
B.A., Newberry College, S. C., 1897; D.D.S., Minnesota, 1906.
- JOHN PHILIP WENTLING, M.A., Associate Professor of Forestry, and Associate Forester, Agricultural Experiment Station
B.A., Franklin and Marshall, 1902; M.A., Franklin and Marshall, 1905.
- RODNEY MOTT WEST, B.A., Secretary of the Department of Agriculture with rank of Associate Professor
B.A., Minnesota, 1906.
- LUCILE WHEELER, M.A., Assistant Professor of Foods and Cookery
B.A., Mt. Holyoke College, 1907; M.A., Columbia, 1915.
- ALBERT BEEBE WHITE, Ph.D., Professor of History
B.A., Yale, 1893; Ph.D., Yale, 1898.
- SOLON MARX WHITE, M.D., Professor of Medicine
B.S., Illinois, 1896; M.D., Northwestern, 1897.
- HELEN ARDELL WHITNEY, M.A., Assistant Professor of Rhetoric
B.A., Minnesota, 1900; M.A., Minnesota, 1909.
- CHARLES ALBERT WIETHOFF, D.D.S., Associate Professor of Crown and Bridge Work
D.D.S., Minnesota, 1909.
- M. RUSSELL WILCOX, M.D., Assistant Professor of Physiology
M.D., Minnesota, 1897.
- NORMAN WILDE, Ph.D., Professor of Philosophy and Psychology, Head of the Department of Philosophy and Psychology
B.A., Columbia, 1889; M.A., Columbia, 1890; Ph.D., Columbia, 1894.

- JOHN JAMES WILLAMAN, M.S., Assistant Professor of Agricultural Analysis, Assistant Biochemist, Agricultural Experiment Station
B.A., Wisconsin, 1912; M.S., Wisconsin, 1914.
- GRACE IRENE WILLIAMS, B.S., Assistant Professor of Foods and Cookery
B.S., Teachers' College, (Columbia), 1910.
- ARCHIE DELL WILSON, B.S. in Agr., Director of Agricultural Extension and Farmers' Institutes
B.S. in Agr., Minnesota, 1905.
- LOUIS BLANCHARD WILSON, M.D., Professor of Pathology
M.D., Minnesota, 1896.
- HERBERT WOODROW, Ph.D., Assistant Professor of Psychology
B.A., Michigan, 1904; Ph.D., Columbia, 1909.
- ALBERT FREDERICK WOODS, D.Agr., Dean and Director of the Department of Agriculture
B.S., Nebraska, 1890; M.A., Nebraska, 1892; D.Agr., Nebraska, 1913.
- JAMES BARTON WOOLNOUGH, Associate Professor of Military Science and Tactics
- FRANKLIN RANDOLPH WRIGHT, D.D.S., M.D., Assistant Professor, in charge of the Division of Urology
D.D.S., Minnesota, 1890; M.D., Minnesota, 1894; F.A.C.S., Minnesota, 1913.
- FREDERICK JOHN WULLING, G.Ph.m., D.Ph.m., LL.M., Professor of Pharmacology, Dean of the College of Pharmacy, and Director of the University Plant Gardens
G.Ph.m., Columbia, 1887; LL.B., Minnesota, 1896; LL.M., Minnesota, 1898; Ph.m. M. hon. causa, Philadelphia College of Pharmacy, 1917.
- *JEREMIAH SIMEON YOUNG, Ph.D., Professor of Political Science
B.A., Kansas College, 1890; M.A., Michigan, 1898; Ph.D., Chicago, 1902.
- OTTO S. ZELNER, B.S., Assistant Professor of Surveying
B.S. in C.E., Michigan, 1905.
- ANTHONY ZELENY, Ph.D., Professor of Physics
B.S., Minnesota, 1892; M.S., Minnesota, 1893; Ph.D., Minnesota, 1907.
- HOWARD STRICKLAND ABBOTT, B.L., Professorial Lecturer in charge of the subject of Corporations
B.L., Minnesota, 1885.
- HENRY MARTIN BRACKEN, M.D., Professorial Lecturer in Public Health, in charge of the Division of Public Health
M.D., Columbia, 1877.
- CALVIN L. BROWN, Special Lecturer in Law
- ROME G. BROWN, B.A., Special Lecturer on Water Rights, Law School
B.A., Harvard, 1884.
- FRANK J. BRUNO, B.A., B.D., Lecturer in Sociology and Anthropology
B.A., Williams, 1899; B.D., Yale, 1902.
- CHARLES WILSON BUNN, B.S., Special Lecturer on Federal Jurisdiction, Law School
B.S., Wisconsin, 1874.
- HENRY WIREMAN COOK, M.D., Lecturer on Life Insurance, Medical School
B.A., Johns Hopkins, 1898; M.D., Johns Hopkins, 1902.

* Leave of absence, 1916-17.

- WILLIAM THOMAS COX, B.S. in For., State Forester, Special Lecturer in Forestry
B.S. in For., Minnesota, 1906.
- OTTO W. DAVIS, B.A., Lecturer in Sociology and Anthropology
B.A., Wesleyan, 1892.
- HOMER B. DIBELL, B.A., Professorial Lecturer on Mortgages and Extraordinary Legal Remedies, Law School
- ARTHUR LLEWELLYN HELLIWELL, LL.M., Special Lecturer on Examinations of Abstracts, Law School
B.A., Minnesota, 1895; LL.B., Minnesota, 1896; LL.M., Minnesota, 1898
- CHARLES S. JELLEY, Special Lecturer on the Practice of Law, Law School
- WALDRON MIRTALU JEROME, B.S., LL.B., Professorial Lecturer in charge of the subject of Evidence, Law School
B.S., Minnesota, 1900; LL.B., Harvard, 1906.
- FRANK B. KELLOGG, LL.D., Special Lecturer, Law School
LL.D., McGill, 1913.
- MAC MARTIN, Professorial Lecturer in Advertising, General Extension Division
- HUGH VICTOR MERCER, LL.M., D.C.L., Special Lecturer on Practice in United States Courts, Law School
LL.B., Minnesota, 1894; LL.M., Minnesota, 1897; D.C.L., Minnesota, 1911.
- CHRISTOPHER DILLON O'BRIEN, Special Lecturer on Criminal Procedure and Practice, Law School
- THOMAS DILLON O'BRIEN, Special Lecturer on the Police Power of the State, Law School
- CHARLES C. STILLMAN, B.A., Lecturer in Sociology
- FREDERICK HAROLD STINCHFIELD, B.A., LL.B., Professorial Lecturer in charge of the Practice Court, Law School
B.A., Bates, 1900; LL.B., Harvard, 1905.
- JOHN S. ABBOTT, M.D., Instructor in Surgery
B.A., Minnesota, 1905; M.D., Pennsylvania, 1908.
- JEAN H. ALEXANDER, M.A., Instructor in Education
B.S. in Educ., Ohio State, 1915; M.A., Ohio State, 1916.
- GEORGE DELWIN ALLEN, M.S., Instructor in Animal Biology
B.A., Oberlin, 1907; M.S., Chicago, 1910.
- WILLIAM F. ALLEN, M.A., Instructor in Histology and Embryology
B.A., Leland Stanford, 1900; M.A., Leland Stanford, 1902.
- BERT GEORGE ANDERSON, D.D.S., Instructor in Prosthetic Dentistry and Orthodontia
D.D.S., Minnesota, 1914.
- JOHN A. ANDERSON, B.S., Instructor in Music, West Central School of Agriculture, Morris
B.S., North Dakota Agricultural College, 1916.

- PHILIP ARTHUR ANDERSON, B.S. in Agr., Instructor in Animal Husbandry
B.S. in Agr., Minnesota, 1914.
- WILLIAM ANDERSON, M.A., Instructor in Political Science
B.A., Minnesota, 1913; M.A., Harvard, 1914.
- JOHN MILTON ARMSTRONG, M.D., Instructor in Dermatology and Syphilis
M.D., Minnesota, 1901.
- BEN ALBERT ARNESON, Ph.D., Instructor in Political Science
B.A., Wisconsin, 1913; M.A., Wisconsin, 1914; Ph.D., Wisconsin, 1916.
- HARRY ELKINS ATWOOD, M.A., Instructor in Romance Languages
B.A., Dartmouth College, 1913; M.A., Harvard, 1914.
- J. FOWLER AVERY, M.D., Instructor in Medicine
M.D., Minnesota, 1899.
- ROSS ALLEN BAKER, Ph.D., Instructor in Chemistry
B.A., De Pauw, 1906; M.A., De Pauw, 1907; Ph.D., Wisconsin, 1914.
- GEORGE SILK BARNUM, M.A., Instructor in Romance Languages
B.A., Cornell, 1911; M.A., Minnesota, 1916.
- FRANCIS BROWN BARTON, Docteur de l'Université de Paris, Instructor in Romance Languages
B.A., Williams College, 1907; Docteur de l'Université de Paris, University of Paris, 1911.
- RALPH MARTIN BARTON, B.A., Instructor in Mathematics
B.A., Dartmouth, 1904.
- ANNA E. BAYHA, B.A., Instructor in Textiles and Clothing
B.A., Ohio, 1910.
- WILLIAM OTIS BEAL, M.S., Assistant Astronomer
B.S., Earlham, 1896; M.A., Haverford, 1897; M.S., Chicago, 1902.
- CECIL CALVERT BEAN, M.A., B.Ped., Instructor in Rhetoric
Ph.B., Ohio, 1910; B.Ped., Ohio, 1911; M.A., Harvard, 1916.
- ZEPHERIN LEWIS BEGIN, LL.B., Instructor in Practice, Law School
LL.B., Minnesota, 1914.
- BESSIE E. BEMIS, B.S., Instructor in Foods and Cookery, and in charge of Women's Dormitories
B.S., Michigan Agricultural College, 1905.
- JELMER PARIDON BENGSTON, Preceptor, Northwest School of Agriculture, Crookston
- FRED WILLIAM BENTLEY, Instructor in Drawing
B.S. in M.E., Wisconsin, 1898.
- GUY RICHARD BISBY, B.S., Instructor in Plant Pathology, and Assistant Plant Pathologist, Agricultural Experiment Station
B.S., South Dakota State College, 1912.
- FRANK WALTER BLISS, M.S., Instructor in Chemistry
B.S., Michigan, 1908; M.S., Illinois, 1909.
- *OSCAR J. BLOSMO, Phm.C., M.Ph., Instructor in Dispensing, and Pharmacist, Out-Patient Department, Elliot Memorial Hospital
Phm.C., Minnesota, 1907; M.Ph., Minnesota, 1913

* Leave of absence, first semester, 1916-17.

- THOMAS MONTEITH BRODERICK, M.S., Instructor in Geology
B.A., Minnesota, 1913; M.S., Wisconsin, 1914.
- FANNIE CARD BOUTELLE, Instructor in English, Central School of Agriculture
- CARLOTTA M. BROWN, Instructor in Millinery
- CLARA MAUD BROWN, B.A. in Educ., Instructor in Textiles and Clothing
B.A. in Educ., Minnesota, 1913.
- PAUL F. BROWN, M.D., Instructor in Surgery
B.A., Minnesota, 1902; M.D., Minnesota, 1905.
- SAMUEL CHATWOOD BURTON, M.A., Instructor in Painting and Free-hand Drawing
M.A., S. W. Polytechnic, Chelsea, London, 1905.
- JOHN BUTLER, M.D., Instructor in Dermatology
M.D., Minnesota, 1903.
- OLE O. BYE, Instructor in Carpentry, West Central School of Agriculture, Morris
- WALTER EDWARD CAMP, Instructor in Ophthalmology and Oto-Laryngology
B.A., Missouri, 1912; M.A., Minnesota, 1915.
- KNUT PAUL CARSON, D.D.S., Instructor in Oral Surgery
D.D.S., Northwestern, 1910.
- JOHN OSCAR CEDERBERG, JR., Instructor in Architecture
- CARL CLAYTON CHATTERTON, M.D., Instructor in Orthopedic Surgery
M.D., Northwestern, 1910.
- WILBUR HARKNESS CHERRY, B.A., LL.B., Instructor in Contracts, Law Extension
B.A., McGill, 1907; LL.B., Columbia, 1910.
- HOWARD SHOEMAKER CLARK, M.D., Instructor in Ophthalmology and Oto-Laryngology
B.S., Minnesota, 1895; M.D., Minnesota, 1897.
- CHARLES HENRY CLEVENGER, M.S., Instructor in Mechanics and Mathematics
B.S., Ohio, 1902; M.S., Chicago, 1910.
- ERNEST B. CLEWORTH, Instructor in Mechanical Laboratory
- NELSON FRANCIS COBURN, M.A., Instructor in Romance Languages
B.A., Harvard, 1911; M.A., Harvard, 1912; Certificat d'études françaises, Université de Grenoble, 1913.
- LILLIAN COHEN, Ph.D., Instructor in Chemistry
B.S., Minnesota, 1900; M.S., Minnesota, 1901; Ph.D., Minnesota, 1913.
- ELBRIDGE COLBY, M.A., Instructor in Rhetoric
B.A., Columbia, 1912; M.A., Columbia, 1913.
- WALLACE COLE, M.D., Instructor in Orthopedic Dentistry
M.D., Minnesota, 1910.
- ARTHUR HOLLY COMPTON, Ph.D., Instructor in Physics
B.S., Wooster, 1913; M.A., Princeton, 1914; Ph.D., Princeton, 1916.

- WILLIAM HENRY CONDIT, M.D., Instructor in Obstetrics
B.S., Minnesota, 1896; M.D., Minnesota, 1899.
- ESTELLE COOK, Instructor in Rhetoric
Graduate, Emerson College of Oratory, 1904.
- PAUL B. COOK, M.D., Instructor in Dermatology and Syphilis
M.D., Minnesota, 1900.
- WILLIAM SKINNER COOPER, Ph.D., Instructor in Plant Physiology and Ecology
B.S., Alma College (Michigan), 1906; Ph.D., Chicago, 1911.
- EUGENE C. CRANE, M.E., Instructor in Agricultural Engineering,
Central School of Agriculture
M.E., Minnesota, 1912.
- LLOYD MORGAN CROSGRAVE, M.A., Instructor in Economics
B.A., Indiana, 1909; M.A., Harvard, 1911.
- HAROLD RANDOLPH CROSLAND, Ph.D., Instructor in Psychology
B.A., South Carolina, 1913; M.A., Clark, 1914; Ph.D., Clark, 1916.
- BRONSON CROTHERS, M.D., Instructor in Pediatrics
B.A., M.D., Harvard, 1910.
- JAMES MARTIN CURRAN, B.S. in Agr., Instructor in Agronomy and Farm Management
B.S. in Agr., Minnesota, 1914.
- FRANC POMEROY DANIELS, B.S. in Agr., Instructor in Horticulture,
Central School of Agriculture
B.S. in Agr., Minnesota, 1914.
- JOHN FREDERICK DASHIELL, Ph.D., Instructor in Philosophy and Psychology
B.S., Moores Hill College (Indiana), 1909; B.L., Moores Hill College, 1908; M.A., Columbia, 1910; Ph.D., Columbia, 1913.
- JAMES DAVIES, Ph.D., Instructor in German
Ph.B., Boston, 1900; M.A., Boston, 1905; Ph.D., Leipzig, 1906.
- EDWARD WILSON DAVIS, B.S. in E.E., Instructor in Mechanics and Mathematics
B.S. in E.E., Purdue, 1911.
- LYALL DECKER, M.E., Instructor in Engineering and Drawing
M.E., Cornell, 1908.
- RUDOLPH W. DELTON, D.D.S., Instructor in Prosthetic Dentistry
D.D.S., Minnesota, 1916.
- GRACE DENNY, B.S., Instructor in Physical Training, and Physical Director, Women's Gymnasium, University Farm
B.S., Columbia, 1906.
- MAXIMILLIAN DICK, Instructor in Violin
- ERNEST OTTO DIETRICH, Ph.D., Instructor in Physics
B.A., Iowa, 1912; M.S., Iowa, 1914; Ph.D., Iowa, 1916.
- GERHARD DIETRICHSON, Ph.D., Instructor in Chemistry
B.A., Minnesota, 1909; B.S., Minnesota, 1910; Ph.D., Wisconsin, 1914.
- JEAN MUIR DORSEY, B.S., Instructor in Foods and Cookery, Central School of Agriculture
B.S., Minnesota, 1913.

- JAMES EMMET DORSEY, LL.B., Instructor in Law Extension
B.A., Minnesota, 1910; LL.B., Harvard, 1913.
- LYNWOOD G. DOWNS, M.A., Instructor in German
B.A., Cornell, 1914; M.A., Cornell, 1915.
- CHARLES RALPH DRAKE, M.D., Instructor in Medicine
M.D., Minnesota, 1909.
- JAMES M. DREW, Instructor in Farm Practices, Central School of Agriculture, and in charge of Correspondence Courses, Agricultural Extension
- OLIVER CHRISTMAS EDWARDS, B.S.M.E., Instructor in Engineering, General Extension Division
B.S.M.E., Pennsylvania State College, 1900.
- ARTHUR ELMER ENERSON, B.S. in Agr., Instructor in Farm Crops, Northwest School of Agriculture, Crookston
B.S. in Agr., Minnesota, 1915.
- ADDISON L. EWING, M.S., Instructor in Physics, Central School of Agriculture
B.S., Cornell, 1880; M.S., Cornell, 1886.
- WALTER CUTLER FERRIS, Instructor in Blacksmithing and Carpentry, Northwest School of Agriculture
- JOYCE ELVIRA FIERO, B.A., Instructor in English, West Central School of Agriculture, Morris
B.A., Northwestern, 1914.
- HALLY J. FISHER, R.N., Resident Nurse and Instructor in Home Nursing
- MARY LOUISE FITZGERALD, B.S., Assistant in Home Economics, West Central School of Agriculture, Morris
B.S., North Dakota Agricultural College, 1916.
- PAUL D. FOOTE, M.A., Instructor in Physics
B.A., Western Reserve, 1909; M.A., Nebraska, 1911.
- JAMES HUTCHISON FORSYTHE, B.S. in Arch., Instructor in Architecture
B.S. in Arch., Pennsylvania, 1912; M.A. in Arch., Harvard, 1913.
- LLOYD VICTOR FRANCE, M.S., Instructor in Bee Culture, Assistant Apiculturist, Agricultural Experiment Station
B.S. in Agr., Wisconsin, 1914; M.S., Wisconsin, 1915.
- JENNESS B. FREAR, M.E., Instructor in Engineering Mathematics
M.E., Minnesota, 1910.
- ROBERT WILTON FRENCH, B.S. in C.E., Instructor in Drawing
B.S. in C.E., Michigan, 1907.
- EDWIN L. GARDNER, M.D., Instructor in Medicine
B.S., Minnesota, 1910; M.D., Minnesota, 1912.
- JOHN SEAMAN GARNES, B.A., Instructor in Story Telling, General Extension Division
B.A., Minnesota, 1915.
- ISAAC WILLIAM GEIGER, Ph.D., Instructor in Chemistry
B.A., Ohio, 1913; M.A., Ohio, 1914; Ph.D., Ohio, 1916.

- JOHN THEODORE GEISSENDOERFER, Ph.D., Instructor in German
B.A., Wisconsin, 1907; Ph.D., Pennsylvania, 1912.
- THADDEUS P. GIDDINGS, Instructor in Public School Music
- E. DOW GILMAN, B.S. in Chem. Eng., Instructor in Experimental Engineering
B.S. in Chem. Eng., Wisconsin, 1913; C.E., Wisconsin, 1914.
- GEORGE GORDON GLICK, B.A., Instructor in Rhetoric
B.A., Iowa, 1914.
- ALICE E. GLISE, Instructor in Domestic Art, Northwest School of Agriculture, Crookston
- VETTA GOLDSTEIN, Instructor in Drawing and Design
- ARTHUR ROLLINS GRAVES, Ph.D., Instructor in German
B.A., Wesleyan, 1908; M.A., Harvard, 1910; Ph.D., Harvard, 1915.
- WILLIAM ALEXANDER GREY, D.D.S., Instructor in Oral Surgery
D.D.S., Minnesota, 1904.
- ANNA F. HAIG, B.A., Instructor, Northwest School of Agriculture, Crookston
B.A., Minnesota, 1906.
- ALEXANDER R. HALL, M.D., Instructor in Medicine
M.D., McGill, 1900; M.R.C.S., L.R.C.P., College of Physicians and Surgeons (London), 1902.
- GEORGE NEIL HANSEN, B.S., Instructor in Animal Husbandry
B.S., Minnesota, 1915.
- EDWIN OLAF HANSON, Instructor in Dairy Husbandry
- LEE, ANTHONY HARKER, D.D.S., Instructor in Prosthetic Dentistry
D.D.S., Minnesota, 1915.
- CHARLES LEROY HARLAN, M.A., Instructor in Education
B.A., Indiana, 1912; M.A., Illinois, 1915.
- MARY V. HARTZELL, Instructor in Oral Surgery
D.D.M., Minnesota, 1893.
- IRMA HATHORN, B.A., Preceptress and Instructor in Home Economics, West Central School of Agriculture, Morris
B.A., Minnesota, 1907.
- ELIZABETH S. HAUSE, B.A., Instructor in English, Central School of Agriculture
B.A., Michigan, 1889.
- ELIZABETH HAWTHORN, M.A., Instructor in Rhetoric
B.A., William Smith, 1914; M.A., Radcliffe, 1915.
- GEORGE ANDREWS HEDGER, B.A., Instructor in Rhetoric
B.A., Utah, 1906.
- LAWRENCE MELVIN HENDERSON, Ph.D., Instructor in Chemistry
B.A., St. Olaf, 1910; M.A., St. Olaf, 1911; Ph.D., Chicago, 1916.
- RAYMOND R. HENRY, D.D.S., Instructor in Operative Dentistry
D.D.S., Minnesota, 1915.
- ARTHUR TRAUTWEIN HENRICI, M.D., Instructor in Pathology and Bacteriology
M.D., Pittsburgh, 1911.

- CYRIL ALLYN HERRICK, B.A., Instructor in Rhetoric
B.A., Harvard, 1910.
- JAMES THEODORE HILLHOUSE, Ph.D., Instructor in Rhetoric
B.A., Yale, 1911; M.A., Yale, 1912; Ph.D., Yale, 1914.
- FRANCIS AMES HOBART, Instructor in Mechanical Engineering
- ALBERT CLAIRE HODGE, Ph.B., Instructor in Economics
Ph.B., Chicago, 1914.
- ROBERT E. HODGSON, B.S., Instructor in Agronomy and Farm Management, Central School of Agriculture
B.S., Minnesota, 1916.
- W. P. HOHENSCHUH, Instructor in Practical Embalming
- M. LUCILLE HOLLIDAY, Instructor in Music, Drawing, and Physical Training, Northwest School of Agriculture, Crookston Graduate, Thomas Normal Training School (Michigan), 1913.
- LIVY GERALD HOOD, B.J., Instructor in Journalism
B.J., Missouri, 1915.
- FREDERICK WILHELM HOORN, E.E., Instructor in Mathematics and Mechanics
B.S., Minnesota, 1912; E.E., Minnesota, 1914.
- STANLEY B. HOUCK, LL.B., Instructor in Business Law, General Extension Division
LL.B., Minnesota, 1908.
- SOPHIA AUGUSTA HUBMAN, M.A., Instructor in German, University High School
B.A., Minnesota, 1913; M.A., Minnesota, 1914.
- EDGAR JOHN HUENEKENS, B.A., M.D., Instructor in Pediatrics
B.A., Marquette College, 1904; M.D., St. Louis University, 1908.
- FLORENCE GERTRUDE HULETT, G.N., Resident Nurse, West Central School of Agriculture, Morris
- GERTRUDE ROSE HULL, Instructor in Voice
- REWEY BELLE INGLIS, B.A., Instructor in English, University High School
B.A., Minnesota, 1908.
- HARRY GARFIELD IRVINE, M.D., Instructor in Dermatology and Syphilis
M.D., Minnesota, 1903.
- ELIZABETH JACKSON, Ph.D., Instructor in Rhetoric
B.A., Radcliffe, 1913; M.A., Radcliffe, 1914; Ph.D., Radcliffe, 1916.
- ALBERT CALDER JAMES, B.A., M.B.A., Instructor in Economics
B.A., Harvard, 1915; M.B.A., Harvard School of Business Administration, 1915.
- ESTELLE LOUISE JENSEN, M.A., Mycologist, with rank of Instructor, Agricultural Experiment Station
B.A., Minnesota, 1909; M.A., Smith, 1910.
- CHARLES EUGENE JOHNSON, Ph.D., Instructor in Comparative Anatomy of Vertebrates
B.A., Minnesota, 1906; M.A., Minnesota, 1907; Ph.D., Minnesota, 1912.
- JAMES A. JOHNSON, M.D., Instructor in Surgery
M.D., Northwestern University, 1910.

- MYRTLE GERTRUDE JOHNSON, Instructor in Piano and Gymnasium,
West Central School of Agriculture, Morris
- PEDER L. JOHNSRUD, B.S. in Agr., Instructor in Farm Arithmetic, Central School of Agriculture
B.S. in Agr., Minnesota, 1914.
- A. WALFRED JOHNSON, M.A., Instructor in Geology
B.A., Augustana, 1908; M.A., Minnesota, 1909.
- ALLEN DAVIDSON JOHNSON, Instructor in Blacksmithing
- LEIGHTON JOINER, Instructor in Farm Engineering, Northwest School of Agriculture, Crookston
Graduate, North Dakota School of Agriculture, 1915.
- PHILIP S. JORDAN, B.S., Instructor in Animal Husbandry, West Central School of Agriculture
B.S., Minnesota, 1913.
- JACOB ROBERT KANTOR, Ph.B., Instructor in Philosophy and Psychology
Ph.B., Chicago, 1914.
- FRANCIS KEALLY, B.A., B.S. in Arch., Instructor in Architecture
B.A., Carnegie Institute of Technology, 1912; B.S. in Arch., Pennsylvania, 1915.
- CORNELIA KENNEDY, B.A., M.S., Instructor in Agricultural Biochemistry and Assistant Biochemist, Agricultural Experiment Station
B.A., Minnesota, 1903; M.S., Wisconsin, 1916.
- FRANCIS BULLARD KINGSBURY, Ph.D., Instructor in Physiologic Chemistry
B.A., Harvard, 1909; M.A., Harvard, 1912; Ph.D., Harvard, 1914.
- MARY ETHEL KING, B.A., Instructor in English, West Central School of Agriculture, Morris
B.A., Minnesota, 1913.
- ORVILLE M. KISER, B.S. in Agr., Instructor in Field Crops, Northwest School of Agriculture, Crookston
B.S. in Agr., Kansas, 1908.
- MAY SUTHERLAND KISSOCK, B.A., Instructor in Physical Education for Women
B.A., Smith, 1908; Graduate Department of Hygiene, Wellesley College, 1911.
- HENRY C. KITTLESON, Instructor in Blacksmithing, Northwest School of Agriculture, Crookston
- PAUL E. KLOPSTEG, M.A., Instructor in Physics
B.S., Minnesota, 1911; M.A., Minnesota, 1913; Ph.D., Minnesota, 1916.
- ALBERT R. KNUTSON, Instructor in Farm Crops, Northwest School of Agriculture, Crookston
Graduate, Central School of Agriculture, 1912.
- ALFRED EDMUND KOENIG, M.A., D.Theol., Instructor in German
B.A., Redfield College, 1906; M.A., Minnesota, 1910; D.Theol., Western Evangelical Seminary, 1910.
- GEORGE FRED KROGH, Draftsman, Agricultural Experiment Station
- ERNEST PETER KUHL, Ph.D., Instructor in Rhetoric
B.A., Indiana, 1907; M.A., Harvard, 1908; Ph.D., Harvard, 1913.

- LEE KUEMPEL, Instructor in Railroad Traffic and Rates, General Extension Division
- VALERIA GIBSON LADD, B.A., Instructor in Physical Education for Women
B.A., Wellesley, 1914; Graduate, Department of Hygiene, Wellesley, 1915.
- DWIGHT JUDSON LANE, Instructor in Poultry Husbandry, and Assistant Poultry Husbandman, Agricultural Experiment Station
- ARTHUR H. LARSON, B.S., Instructor in English, Northwest School of Agriculture, Crookston
B.S., Carleton, 1914.
- RAE THORNTON LAVAKE, B.A., M.D., Instructor in Gynecology and Obstetrics
B.A., Yale, 1905; M.D., Columbia, 1909.
- RAY LAUDER LELAND, B.A., Instructor in History, University High School
B.A., Teacher's College, Columbia, 1911.
- HAROLD JUDSON LEONARD, D.D.S., Instructor in Oral Surgery
D.D.S., Minnesota, 1912.
- WILLIAM WALTER LEWIS, M.D., Instructor in Ophthalmology and Otolaryngology
M.D., Minnesota, 1902.
- JOSEPH MONROE LITTLE, D.D.S., Instructor in Operative Dentistry
D.D.S., Minnesota, 1913.
- ALBERT JAMES LOBB, B.A., LL.B., Instructor in Law, Law Extension
B.A., Ripon, 1905; Ph.B., Chicago, 1908; LL.B., Wisconsin, 1908; LL.B., Minnesota, 1912.
- CLARENCE McCORMICK, M.A., Instructor in Mathematics
B.A., Kansas, 1913; M.A., Clark, 1914.
- ERVIN W. McCULLOUGH, E.M., Met.E., Instructor in Mining
E.M., Minnesota, 1911; Met.E., Minnesota, 1916.
- FRANK HENRY MACDOUGALL, Ph.D., Instructor in Chemistry
B.A., Queen's University (Kingston), 1902; M.A., Queen's University, 1903; Ph.D., Leipzig, 1907.
- MABEL CLAIRE McDOWELL, Instructor in Foods and Cookery, Central School of Agriculture and College of Agriculture
Special Diploma, Teacher's College, 1909.
- ROBERT JAMES MCFALL, Ph.D., Instructor in Economics
B.A., Geneva College, 1912; M.A., Columbia, 1914; Ph.D., Columbia, 1916.
- GEORGE ALBERT MCGARVEY, B.A., Instructor in Manual Training, University High School
B.A., Minnesota, 1908.
- EVERETT E. MACGIBBON, D.D.S., Instructor in Crown and Bridge Work
D.D.S., Minnesota, 1914.
- PAUL RAYMOND McMILLER, M.S., Instructor in Soils Chemistry, and Assistant Soils Chemist, Agricultural Experiment Station
B.S. in Chem., Minnesota, 1911; M.S., Minnesota, 1915.
- OLIVE BRIGGS MACCOMBER, Instructor in Textiles and Clothing, Central School of Agriculture

- SOLVEIG M. MAGELSON, M.A., Instructor in English, Central School of Agriculture
B.A., Minnesota, 1912; M.A., Minnesota, 1915.
- CHARLES O. MALAND, M.D., Instructor in Obstetrics and Gynecology
B.A., Minnesota, 1904; M.D., Minnesota, 1907.
- GEORGE ALFRED MANEY, C.E., M.S., Instructor in Structural Engineering
C.E., Minnesota, 1911; M.S., Illinois, 1914.
- SIMON MARCOVITCH, M.S., Instructor in Animal Biology, Central School of Agriculture
B.S., Cornell, 1914; M.S., Minnesota, 1916.
- EDWIN RICHARD MARTIN, B.S. in E.E., Instructor in Electrical Engineering
B.S. in E.E., Iowa State, 1911.
- WALLACE HOPE MARTIN, M.E., Instructor in Mechanical Engineering
M.E., Minnesota, 1910.
- GUY CARSON MILLER, B.A., Instructor in English, Central School of Agriculture
B.A., Leander Clark College, 1914.
- PAUL E. MILLER, B.S.A., Instructor in Agronomy, West Central School and Station
B.S.A., Iowa State College, 1911.
- D. C. MITCHELL, B.S. in C.E., Instructor in Gymnasium, and Physical Director, Men's Gymnasium, University Farm
B.S. in C.E., Nebraska, 1910.
- RUTH MOHL, M.A., Instructor in Rhetoric
B.A., Minnesota, 1913; M.A., Minnesota, 1914.
- FRANCES MILTON MOREHOUSE, M.A., Instructor in History, University High School
B.A., University of Illinois; M.A., University of Illinois, 1914.
- AMY PRESCOTT MORSE, B.A., Instructor in Drawing and Design
B.A., Mt. Holyoke; Diploma from Normal Course, New York School of Fine and Applied Arts, 1915.
- LAWRENCE J. MORTENSON, E.E., Instructor in Drawing and Descriptive Geometry
B.S., Northwestern, 1914; E.E., Northwestern, 1916.
- AGNES MORTON, B.S. in H.E., Instructor in Foods and Cookery, Central School of Agriculture
B.S. in H.E., Minnesota, 1912.
- AMOS F. MOYER, M.E., Instructor in Experimental Engineering
M.E., Minnesota, 1910.
- HOWARD D. MYERS, B.S. in C.E., Instructor in Drawing and Descriptive Geometry
B.S. in C.E., Illinois, 1912.
- JAY ARTHUR MYERS, Ph.D., Instructor in Anatomy
B.S., Ohio, 1912; M.S., Ohio, 1913; Ph.D., Cornell, 1914.
- WILLIAM CARL NAEGELI, D.D.S., Instructor in Operative Dentistry
D.D.S., Minnesota, 1912.

- PAUL INGEBRIKT NEERGAARD, B.A., Instructor in Sociology
B.A., Bethany College, Kansas, 1912.
- HERBERT C. NESOM, D.D.S., Instructor in Crown and Bridge Work
D.D.S., Minnesota, 1913.
- GEORGE HENRY NESOM, B.A., B.S., Instructor in Soils, Central School
of Agriculture, and Soil Specialist, Agricultural Extension
B.A., Hamline, 1900; B.S., Minnesota, 1916.
- MORTON MAYNE NEWCOMB, B.A., Instructor in Business Management,
General Extension Division
B.A., Ripon, 1906.
- EDMUND NEWTON, E.M., Instructor in Metallurgy
E.M., Columbia, 1911.
- JAMES WILLIAM NORMAN, M.A., Instructor in Education
B.A., Mercer; M.A., Harvard, 1912.
- GEORGE MANGHILL OLSON, M.D., Instructor in Dermatology
M.D., Minnesota, 1904.
- CARL OTTO, D.D.S., Instructor in Crown and Bridge Work
D.D.S., Minnesota, 1913.
- CHARLES CONGER PALMER, Instructor in Agriculture
D.V.M., Ohio State, 1912.
- PAUL S. PARKER, D.D.S., Instructor in Prosthetic Dentistry
D.D.S., Minnesota, 1915.
- WILLIAM ANDREW PATON, M.A., Instructor in Economics
B.A., Michigan, 1914; M.A., Michigan, 1916.
- ROLLIN M. PEASE, B.A., Instructor in Music, Central School of Agri-
culture
B.A., Northwestern University, 1898; Chicago Musical College, 1899.
- EDWARD BATES PECK, M.S., Ph.D., Instructor in Chemistry
Ph.B., Brown, 1912; M.S., Massachusetts Institute of Technology, 1914; Ph.D.,
Clark, 1916.
- H. FERNE PECK, B.A., Instructor in Botany, Central School of Agri-
culture, and Assistant Seed Analyst, Agricultural Experiment
Station
B.A., Nebraska Wesleyan, 1914.
- HAROLD PEDERSON, M.D., Instructor in Medicine
B.A., St. Olaf, 1900; M.D., Minnesota, 1907.
- ABE PEPINSKY, Instructor in Violin, and Orchestra Leader
- CHAUNCEY J. VALLETTE PETTIBONE, Ph.D., Instructor in Physiology
and Physiologic Chemistry
B.S., Chicago, 1907; Ph.D., Harvard, 1913.
- RAYMOND VINCENT PHELAN, Ph.D., Instructor in Economics, General
Extension Division
Ph.B., Western Reserve, 1902; M.A., Western Reserve, 1904; Ph.D., Wisconsin,
1906.
- ETHEL LOWERRE PHELPS, B.S., Instructor in Textiles and Clothing
B.S., Cornell, 1915.

- FRANK JOSEPH PIEMEISEL, M.S., Research Assistant in Plant Pathology, with the rank of Instructor
B.S. in Agr., Minnesota, 1914; M.S., Minnesota, 1915.
- WILLIS JORDAN PLUMMER, Instructor in Spanish
Sobresaliente in Spanish Language and Literature, Madrid, 1912.
- FREDERICK HAROLD POPPE, M.D., Instructor in Surgery
B.A., Minnesota, 1904; M.D., Minnesota, 1907.
- ALBERT C. POTTER, M.D., Instructor in Pathology and Bacteriology
M.D., Detroit College of Medicine and Surgery, 1906.
- SAMUEL RALPH POWERS, B.A., Instructor in Science, University High School
B.A., Illinois, 1912.
- FRED JOHN PRATT, JR., M.D., Instructor in Ophthalmology and Oto-Laryngology
M.D., Michigan, 1901.
- GEORGE C. PRIESTER, B.E., M.S., Instructor in Mathematics and Mechanics
B.E., Iowa, 1910; M.S., Minnesota, 1916.
- EDWARD P. QUIGLEY, Instructor in Forge Work
- ALLEN G. QUIMBY, Instructor in Foundry Practice
Course of Vocational and Industrial Teaching, Columbia, 1916; MacLains School, 1913.
- TERRENCE THOMAS QUIRKE, Ph.D., Instructor in Geology
E.M., North Dakota, 1912; M.S., North Dakota, 1913; Ph.D., Chicago, 1915.
- RAY E. RAMAKER, D.D.S., Instructor in Operative Dentistry
D.D.S., Minnesota, 1915.
- CHARLES F. RAMSEY, Instructor in Art, General Extension Division
- ANDREW THEODORE RASMUSSEN, Ph.D., Instructor in Neurology
B.A., Brigham Young, 1907; Ph.D., Cornell, 1916.
- CHARLES ANTHONY REID, M.D., B.S., Instructor in Orthopedic Surgery
B.S., Minnesota, 1895; M.D., Minnesota, 1898.
- SAMUEL N. REEP, Ph.D., Instructor in Real Estate Practice, General Extension Division
Ph.D., Chicago, 1910.
- WILLIAM DAVID REEVE, B.S., Instructor in Mathematics, University High School
B.S., Chicago, 1909.
- GERTRUDE REEVES, Instructor in Music
- ERNEST ALEXANDER REID, M.S. in E.E., Instructor in Electrical Engineering
B.S. in E.E., Illinois, M.S. in E.E., Illinois, 1915.
- WALTER RHINOW, Brigade Adjutant, Department of Military Science and Tactics
- ERNEST THOMPSON FRASER RICHARDS, M.D., Instructor in Medicine
M.D., C.M., McGill, 1905.
- WILLIAM HENRY RICHARDS, Instructor in Mechanical Engineering and Pattern Shop

- ROBERT I. RIZER, M.D., Instructor in Medicine
M.D., Rush Medical College, 1906.
- FREDERICK C. RODDA, M.D., Instructor in Pediatrics
M.D., Michigan, 1905.
- CLAYTON ORD ROST, M.A., Assistant Soils Chemist, with rank of
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B.S., Nebraska, 1911; M.A., Nebraska, 1912.
- MARTIN B. RUUD, Ph.D., Instructor in Rhetoric
B.A., North Dakota, 1906; M.A., North Dakota, 1907; Ph.D., Chicago, 1915.
- SANDFORD MEDDICK SALYER, M.A., Instructor in Rhetoric
B.A., Amherst, 1904; M.A., Harvard, 1914.
- JOHN PETER SCHNEIDER, M.D., Instructor in Medicine
M.D., Minnesota, 1906.
- CARL LOUIS SCHUMANN, Ph.D., Instructor in Chemistry
B.S. in Chem. Eng., North Dakota, 1913; M.S. in Chem. Eng., Michigan, 1914;
Ph.D., Michigan, 1915.
- PHILIP SCHWEICKHARD, Preceptor, and Instructor in Social Science,
West Central School of Agriculture
- MRS. MABEL H. SEWALL, Instructor in Home Economics, Northwest
School of Agriculture, Crookston
Graduate, Stevens Point Normal, 1907.
- THOMAS R. SEWALL, Instructor in Engineering and Drawing, Northwest
School of Agriculture, Crookston
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of Agriculture, Crookston
- EDWARD HINMAN SIRICH, Ph.D., Instructor in Romance Languages
B.A., Johns Hopkins, 1906; Ph.D., Johns Hopkins, 1914.
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Agriculture, Morris
- RUTCHER SKAGERBERG, E.E., Instructor in Drawing and Descriptive
Geometry
B.S., Minnesota, 1915; E.E., Minnesota, 1916.
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Extension Division
LL.B., Minnesota, 1908; LL.M., Minnesota, 1909.
- BERNICE B. SMITH, Instructor in English, Northwest School of Agricul-
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Graduate, Moorhead Normal, 1915.
- ELSIE M. SMITHIES, B.A., Instructor in Latin, University High School
B.A., Lawrence College, 1910.
- FRANK SMOYER, B.A., Instructor in Rhetoric
B.A., Yale, 1907.
- HAROLD WILLIAMS SOULE, M.A., Instructor in German
B.A., Colby, 1904; B.A., Oxford, 1908; M.A., Harvard, 1914.
- J. WARREN STEHMAN, M.A., Instructor in Economics
B.A., Lebanon Valley College, 1909; M.A., Pennsylvania, 1910.

- MARTINUS STENSETH, Physical Director and Instructor, Northwest School of Agriculture, Crookston
Graduate of the Northwest School of Agriculture, 1916.
- WOLDEMAR MARCOVITCH STERNBERG, B.S. in Chem. Eng., Instructor in Chemistry
B.S. in Chem. Eng., Institute of Technology, Petrograd, Russia, 1907.
- WAYNE EDSON STEVENS, Ph.D., Instructor in History
B.A., Knox, 1913; M.A., Illinois, 1914; Ph.D., Illinois, 1916.
- WILLIAM THORPE TAPLEY, B.S., Instructor in Vegetable Gardening
B.S., New Hampshire College, 1916.
- JOHN TORRENCE TATE, Ph.D., Instructor in Physics
B.S., Nebraska, 1910; M.A., Nebraska, 1912; Ph.D., Berlin, 1914.
- MARION A. TEBBETS, B.A., Director of the Department of Social Service, Elliot Memorial Hospital
B.A., Minnesota, 1910.
- STERLING TEMPLE, Ph.D., Instructor in Chemistry
B.A., Hamline, 1905; M.A., Hamline, 1906; Ph.D., Minnesota, 1915.
- ALICE L. THOMAS, B.S., M.A., Instructor in Foods and Cookery
B.A., Allegheny, 1903; B.S., Columbia (Teachers College), 1911; M.A., Columbia, 1914.
- ARTHUR JERROLD TIEJE, Ph.D., Instructor in Rhetoric
B.A., Cornell, 1905; M.A., Cornell, 1906; Ph.D., Illinois, 1912.
- JAMES LOUIS TITUS, B.Ph., Assistant Pharmacist, Out-Patient Department, Elliot Memorial Hospital
B.Ph., Minnesota, 1911.
- MRS. ALICE HOPKINS TOLG, M.D., Instructor in Physical Education for Women
M.D., Tufts Medical School, 1907.
- JAMES B. TORRANCE, B.S. in Agr., Instructor in Farm Motors, Central School of Agriculture
B.S. in Agr., Minnesota, 1906.
- DEL D. TURNER, Phm.C., Assistant Laboratory Instructor
Phm.C., University of Michigan, 1881.
- HUBERT MICHAEL TURNER, B.S., Instructor in Electrical Engineering
B.S., Illinois, 1910.
- OLIVE N. TUTTLE, B.A., Instructor in Textiles and Clothing, Central School of Agriculture
B.A., Cornell, 1915.
- WILLIAM DORNEY VALLEAU, B.S., Instructor in Horticulture
B.S., Minnesota, 1913.
- JUNE LOUISE VAN WINKLE, Instructor in Mathematics, West Central School of Agriculture, Morris
Graduate of Normal School, Mankato.
- WILLIAM D. VEHE, D.D.S., Special Instructor in Porcelain Work
D.D.S., Chicago College of Dental Surgery, 1907.
- ELIZABETH VERMILYE, B.A., Instructor in Foods and Cookery
B.A., State College of Washington, 1908.

- HOWARD THOMPSON VIETS, M.A., Instructor in Rhetoric
B.A., Harvard, 1909; M.A., Harvard, 1914.
- JOHN JAY VIETS, B.S. in Agr., Instructor in Animal Husbandry
B.S. in Agr., Minnesota, 1915.
- BERT A. WALLACE, Instructor in History and Rural Sociology, Central
School of Agriculture
- H. LEE WARD, Ph.D., Instructor in Chemistry
B.A., Yale, 1906; Ph.D., Yale, 1909.
- MARGARET WARWICK, M.D., Instructor in Pathology and Bacteriology
B.S., Minnesota, 1911; M.D., Minnesota, 1913.
- MILDRED WEIGLEY, Instructor in Foods and Cookery
- DONALD McDERMID WESTBROOK, M.E., Instructor in Machine Shop
Practice
M.E., Minnesota, 1910.
- ANDREW JOSEPH WEISS, Instructor in Prosthetic Dentistry
- JOHN CLEMENT WEST, Instructor in Physical Education for Men
B.S., Minnesota, 1915.
- HALL BREWSTER WHITE, B.S. in Agr., Instructor in Carpentry
B.S. in Agr., Minnesota, 1908.
- LLOYD ROBERT WHITSON, E.M., Instructor in Drawing
E.M., Minnesota, 1911.
- GILBERT H. WIGGIN, B.S., Instructor in Forestry, Cloquet Forest Ex-
periment Station
B.S. in Forestry, Minnesota, 1913.
- SUSAN ZENOBIA WILDER, B.A., B.S. in Home Economics, Instructor in
Home Economics, West Central School of Agriculture, Morris
B.A., Minnesota, 1908; B.S. in Home Econ., Minnesota, 1910.
- BENJAMIN M. WINKLEMAN, Instructor in Penmanship and Spelling,
Central School of Agriculture
- RICHARD WISCHKAEMPER, M.A., Instructor in German
B.A., Wartburg College, 1901; M.A., Iowa, 1908.
- LEE EDGAR WOLGEMUTH, M.E., Instructor in Mechanical Engineering
B.S., South Dakota State College, 1891; M.S., South Dakota State College, 1894;
B.M.E., Purdue, 1897; M.E., Purdue, 1899.
- ARTHUR WOODMAN, B.S. in C.E., Instructor in Agricultural Engineering,
West Central School of Agriculture, Morris
B.S. in C.E., Iowa State College, 1911.
- CHARLES BENJAMIN WRIGHT, B.A., Instructor in Medicine
B.A., North Dakota, 1898; B.A. Johns Hopkins, 1902.
- CHARLES WILLIAM WULLING, Phm.D., Instructor in Pharmacy
Phm.D., Minnesota, 1898.
- EDWIN HERMANN ZEYDEL, M.A., Instructor in German
B.A., Columbia, 1914; M.A., Cornell, 1915.
- HARRY B. ZIMMERMAN, M.D., Instructor in Surgery
M.D., College of Physicians and Surgeons (New York), 1909.

- *GEORGE JACOB BAKER, M.S., Superintendent Demonstration Farms, Agricultural Extension
B.S. in Agr., Minnesota, 1909; M.S., Minnesota, 1910.
- MARGARET H. BAKER, Assistant Leader Boys' and Girls' Clubs, Agricultural Extension
- FRANK EVERETT BALMER, B.S. in Agr., State Leader County Agent Work, Agricultural Extension
B.S. in Agr., Kansas State Agricultural College, 1905.
- MARGARET JOSEPHINE BLAIR, Household Art Specialist, Agricultural Extension
- FRANK J. BROWN, B.S. in Agr., Farm Management Specialist, Agricultural Extension
B.S. in Agr., Minnesota, 1915.
- MARY L. BULL, Home Economics Specialist, Agricultural Extension
- WILLIAM LANE CAVERT, Ph.B., B.S.A., Farm Management Demonstrator, Agricultural Extension
Ph.B., Union, 1910; B.S.A., Cornell, 1912.
- NORTON EVERETT CHAPMAN, M.A., Poultry Specialist, Agricultural Extension
B.A., Chicago, 1885; B.D., Chicago, 1885; M.A., Dennison, 1888.
- SPENCER B. CLELAND, B.S. in Agr., Assistant State Leader County Agents, Agricultural Extension
B.S. in Agr., 1914.
- RAYMOND LESLIE DONOVAN, B.S. in Agr., Demonstration Farm Specialist, Agricultural Extension
B.S. in Agr., Minnesota, 1909.
- THEODORE AUGUST ERICKSON, B.A., Rural School Specialist, Agricultural Extension
B.A., Minnesota, 1904.
- ABRAM BOWMAN HOSTETTER, B.S., County Agents, Agricultural Extension Division
B.S., Chicago, 1868.
- ROSWELL P. INGRAM, B.S. in Agr., Seed Inspector, Agricultural Experiment Station
B.S. in Agr., Minnesota, 1915.
- GEORGINA L. LOMMEN, M.L., Director Rural School Normal Training Department
B.L., Minnesota, 1898; M.L., Minnesota, 1900.
- THOMAS B. McCULLOCH, Demonstration Farm Specialist, Agricultural Extension
- WILLIAM ARCHIE MCKERROW, Live Stock Specialist, Agricultural Extension and United States Department of Agriculture
- ROGER SHERMAN MACKINTOSH, M.S., Horticultural Specialist, Agricultural Extension
B.Agr., Minnesota, 1902; M.S., Iowa State College, 1910.

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- MARTHA B. MOORHEAD, M.D., Lecturer in Hygiene
M.D., Woman's Medical College of Pennsylvania, 1892.
- RODMAN B. OSHIER, Secretary, Lecturer and Lyceum Department,
General Extension Division
- BESS M. ROWE, B.S. in H.E., Home Economics Specialist, Agricultural
Extension Division
B.S. in H.E., Minnesota, 1910.
- JUNIATA L. SHEPPERD, M.A., Home Economics Specialist, Agricultural
Extension
B.A., Oskaloosa College, 1881; M.A., Drake, 1884; Graduate Pratt Institute, 1896.
- ARNE G. TOLAAS, M.S., Extension Specialist in Plant Pathology, Agri-
cultural Extension
B.S. in Agr., Minnesota, 1911; M.S., Minnesota, 1912.
- MARY RHODA WETMORE, M.D., M.P.H., Lecturer Public Health,
Agricultural Extension
M.D., Michigan, 1898; M.P.H., Wisconsin, 1916.
- ARNE W. AAMODT, Assistant in Horticulture, Agricultural Experiment
Station
- EARL LEONARD ABRAMSON, B.A., Scholar in Animal Biology
B.A., Minnesota, 1915.
- ERRET CYRIL ALBRITTON, B.A., Assistant in Anatomy
B.A., Missouri, 1916.
- HENRY RAY ALDRICH, B.S., Research Assistant in Geology
B.S., Massachusetts Institute of Technology, 1914.
- MARGARET ALTERTON, B.S., Assistant in English
B.S., Columbia, 1906.
- ARTHUR LAWRENCE ANDERSON, B.S., Assistant in Veterinary Science
B.S., Minnesota, 1916.
- EDWARD D. ANDERSON, B.A., Assistant in Physiology
B.A., Minnesota, 1913.
- ERNST HERMAN BAKKEN, B.A., Assistant in Chemistry
B.A., St. Olaf, 1915.
- LEE WILLIS BARRY, M.D., Teaching Assistant in Obstetrics and Gyne-
cology
M.D., Michigan, 1911.
- ALEXANDER D. BELL, B.S., Student Helper in Chemistry
B.S., Minnesota, 1916.
- JOHN WARREN BELL, M.D., Assistant in Medicine
M.D., Minnesota, 1916.
- ARCHIBALD HILDRETH BEARD, M.D., Assistant in Medicine, Resident
Physician, Elliot Memorial Hospital
B.A., Kansas, 1910; M.D., Harvard, 1914.
- EMMETT LESLIE BENNETT, M.A., Secretary of the Municipal Reference
Bureau, General Extension Division
B.A., Kansas, 1913; M.A., Kansas, 1914.
- JULIUS BORAAS, M.L., Teaching Assistant in the College of Education
B.L., Minnesota, 1895; M.L., Minnesota, 1898.

- MORRIS L. BOXELL, Student Helper in Chemistry
- FOSTER A. BURNINGHAM, Student Helper in Chemistry
- ARTHUR ROSSON CADE, B.S., Assistant in Chemistry
B.S., Worcester Polytechnic Institute, 1915.
- DON FRANKLIN CAMERON, M.D., Teaching Fellow in Surgery
B.A., Indiana, 1907; M.A., Chicago, 1909; M.D., Johns Hopkins, 1913.
- WALTER EDWARD CAMP, M.A., Assistant in Ophthalmology and Oto-
Laryngology
B.A., Missouri, 1912; M.A., Minnesota, 1915.
- GLADYS McALPINE CAMPBELL, B.A., Assistant in History
B.A., Knox, 1912; B.A., Vassar, 1913.
- *WILLIAM FINDLAY CANTWELL, B.S. in Chem., Assistant Chemist in
Animal Nutrition, Agricultural Experiment Station
B.S. in Chem., Minnesota, 1911.
- ALDENA CARLSON, B.A. in Educ., Assistant in English
B.A. in Educ., Minnesota, 1915.
- MARJORIE CARR, B.A., Assistant in History
B.A., Knox, 1913.
- WILLIAM C. CARROLL, M.D., Assistant in Surgery
B.S., Minnesota, 1910; M.D., Minnesota, 1912.
- ROSCOE HARRISON CARTER, M.S., Assistant in Chemistry
B.A., Morningside, 1912; M.S., Iowa, 1914.
- CLARENCE E. CARY, Assistant in Drawing, Central School of Agriculture
- CLYDE RAY CHAMBERS, B.A., Scholar in Sociology
B.A., Missouri, 1916.
- ROYAL NORTON CHAPMAN, M.A., Teaching Fellow in Animal Biology
B.A., Minnesota, 1914; M.A., Minnesota, 1915.
- GEORGE HENSHAW CHILDS, M.A., Scholar in Animal Biology
B.A., Minnesota, 1914; M.A., Minnesota, 1915.
- MARTIN BURTON CHITTICK, B.A., G.Ph.m., Assistant in Chemistry
B.A., Nebraska, 1916; G.Ph.m., Nebraska, 1916.
- FRANKLIN CHARLES CLAPP, M.S., Assistant in Soils, Agricultural Ex-
periment Station
B.S., Minnesota, 1915; M.S., Minnesota, 1916.
- RALPH COLBY, B.A., Scholar in English
B.A., Minnesota, 1916.
- WYMAN C. COLE, B.A., Assistant in Anatomy
B.A., Minnesota, 1916.
- CHARLES E. CONNOR, M.D., M.A., Teaching Fellow in Ophthalmology
and Oto-Laryngology
B.A., Indiana, 1910; M.A., Indiana, 1912; M.D., Johns Hopkins, 1914.
- HOLLIS CROSS, Student Helper in History
- ORIN DAVID CUNNINGHAM, M.A., Shevlin Fellow in Chemistry
B.S., Northwestern, 1914; M.A., Montana, 1915.
- CHARLES M. DALE, Assistant in Practice, Law School

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- BALBINO DÁVALOS, Abogado, Professorial Lecturer in Romance Languages
Bachiller en Ciencias y Letras, Escuela Preparatoria de México, 1889; Abogado, Universidad Nacional de Mexico (Escuela Nacional de Jurisprudencia), 1895.
- HAROLD SHEELY DIEHL, B.A., Assistant in Bacteriology and Pathology
B.A., Pennsylvania, 1912.
- EVERETT HAISLEY DOHERTY, B.S., Assistant in Agricultural Biochemistry
B.S., Earlham College, 1911.
- AARON DOMOVSKY, Student Helper in Chemistry
- MYRON A. DRESSER, B.A., Scholar in Geology
B.A., Minnesota, 1916.
- EDNA GERRISH DYAR, B.A., Research Assistant in Neurology
B.A., Wisconsin, 1914.
- LAURENCE R. ECKMAN, B.A., Student Helper in Chemistry
B.A., Minnesota, 1916.
- WALTER A. EGGE, Student Helper in Chemistry
- EDWARD JOHN ENGBERG, M.D., Assistant in Nervous and Mental Diseases
M.D., Minnesota, 1913.
- AGNES ERICKSON, Assistant Chemist in Animal Nutrition, Agricultural Experiment Station
- RUTH ELIZABETH FAIRBANK, B.A., Scholar in Rhetoric
B.A., Mt. Holyoke, 1914.
- WALTER A. FANSLER, M.D., Assistant in Medicine
B.A., Missouri; M.A., Missouri; M.D., Johns Hopkins.
- DONALD CURTIS FARLEY, B.S., Assistant in Chemistry
B.S., Hamline, 1916.
- HARRY N. FITCH, B.A., Scholar in Education
B.A., North Dakota, 1915.
- SYBIL ISABELLE FLEMING, M.A., Shevlin Fellow in History
B.A., Minnesota, 1915; M.A., Minnesota, 1916.
- CHARLES WILLIAM FOGARTY, M.D., Assistant in Ophthalmology, Laryngology, and Otology
M.D., Jefferson College, 1903.
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B.A., Nebraska, 1912; M.A., Minnesota, 1914.
- SAMUEL T. FORSYTHE, M.D., Teaching Fellow in Ophthalmology and Oto-Laryngology
B.A., Washington and Jefferson College, 1906; M.D., Starling Ohio Medical College 1913.
- HUBERT FOURNIER, Attendant in the Department of Physical Education for Men
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B.A., Oberlin, 1913; M.A., Oberlin, 1914.
- CHARLES CULLOM GAULT, B.A., Shevlin Fellow in Medicine
B.A., Randolph-Macon College, 1914.

- ORVILLE A. GEORGE, B.A., Scholar in Mathematics
B.A., Minnesota, 1916.
- JOHN C. GILLILAN, B.S., Assistant in Agricultural Economics
B.S., Minnesota, 1916.
- SAMUEL A. GRAHAM, B.S., M.F., Assistant in Entomology, Agricultural
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B.S., Minnesota, 1914; M.F., Cornell, 1916.
- EUGENE KIBBY GREEN, M.D., Assistant in Surgery
B.A., Minnesota, 1895; M.D., Minnesota, 1903.
- CHARLES E. GREENLAW, Student Helper in Chemistry
- WILLIAM ALEXANDER GREY, D.D.S., Research Assistant in Oral Surgery
D.D.S., Minnesota, 1904.
- ANANT M. GURJAR, B.S., Assistant in Agricultural Biochemistry
B.S., Utah Agricultural College, 1911.
- RALPH HAEFNER, B.A., Scholar in Comparative Philology
B.A., Minnesota, 1916.
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B.A., Minnesota, 1907.
- CHARLES A. HALLBERG, M.D., Assistant in Surgery
- ARNOLD L. HAMEL, M.D., Assistant in Medicine
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- JAMES F. HAMMOND, M.D., C.M., Assistant in Obstetrics
M.D., C.M., McGill, 1906.
- LILLIAN HANSEN, Instructor in Swimming, Central School of Agriculture
- CHARLES HARALSON, Assistant Horticulturist, Superintendent Fruit
Breeding Farm, Excelsior
- ELIZABETH PERRY HARLING, Assistant Seed Analyst, Agricultural Ex-
periment Station
- PAUL M. HARMER, M.S., Assistant in Soils, Agricultural Experiment
Station
B.S., Carleton, 1911; M.S., Minnesota, 1915.
- HUGO JOHN HARTIG, M.D., Assistant in Surgery
B.S., Minnesota, 1912; M.D., Minnesota, 1914.
- MARK MORTIMER HEALD, B.A., Scholar in History
B.A., Oberlin, 1914.
- BARBARA HEALY, B.A., Assistant in Animal Biology
B.A., Minnesota, 1915.
- JOSEPH A. HEDDING, M.D., Assistant in Pediatrics
M.D., Hamline, 1906.
- DOROTHY A. HEINEMANN, B.A., Scholar in History
B.A., Minnesota, 1916.
- PEDRO HENRIQUEZ-URENA, Abogado, Professorial Lecturer in Romance
Languages
Bachiller en Ciencias y Letras, Instituto Profesional de Santa Domingo, 1901;
Abogado, Universidad Nacional de México, 1914.
- JOHN P. HIEBERT, M.D., Assistant in Surgery

- WILLIAM HIGBURG, Student Helper in Chemistry
- H. CHESTER HILLMAN, Student Assistant in Crown and Bridge Work
- GODFREY RICHARD HOERNER, B.S., Assistant in Plant Pathology
B.S., Oregon State Agricultural College, 1916.
- JULIUS V. HOFMANN, M. For., Ph.D., Special Lecturer in Forestry
B.S. in For., Minnesota, 1911; Master of For., Minnesota, 1912; Ph.D.,
Minnesota, 1914.
- THORFIN HOGNESS, Student Helper in Chemistry
- GEORGE E. HOLM, B.S., Research Assistant in Agricultural Biochemistry
B.S., Carleton, 1914; M.S., Minnesota, 1916.
- LEROY C. HOLM, Assistant in Gymnasium, Central School of Agriculture
- KARL JOHN HOLZINGER, B.A., Assistant in Mathematics
B.A., Minnesota, 1915.
- THOMAS JAMES HORTON, Photographer, in charge of Photographic
Laboratory, Agricultural Experiment Station
- ALLAN S. HUMPHREYS, B.S., Assistant in Chemistry
B.S., Drury College, 1910.
- KANO IKEDA, M.D., Assistant in Pathology, Bacteriology, and Public
Health
M.D., Illinois, 1914.
- ROSWELL P. INGRAM, B.S. in Agr., Seed Inspector, Agricultural Experi-
ment Station
B.S. in Agr., Minnesota, 1915.
- BRUCE W. JARVIS, B.S., M.D., Assistant in Obstetrics and Gynecology
B.S., Washington, 1911; M.D., Minnesota, 1915.
- JENS PETER JENSEN, B.A., Student Assistant in Agricultural Economics
B.A., Dakota Wesleyan, 1913.
- ENRIQUE JIMÉNEZ D., Abogado, Teaching Fellow in Romance Languages
Bachiller en Ciencias y Letras, Universidad Nacional de Mexico, 1909; Abogado,
Universidad Nacional de Mexico, (Escuela Nacional de Jurisprudencia), 1914.
- ARTHUR MONRAD JOHNSON, B.A., Teaching Fellow in Botany
B.A., Minnesota, 1904.
- E. MENDELSSOHN JONES, M.D., Assistant in Obstetrics and Gynecology
M.D., Minnesota, 1907.
- FLOYD EDWARD JOYCE, B.A., Assistant in Chemistry
B.A., Iowa, 1912.
- HERBERT G. KENAGY, B.A., B.S., in Educ.; Scholar in Economics
B.A., B.S. in Educ., Missouri, 1916.
- HERBERT J. KESSEL, Student Helper in Chemistry
- JOHN ASDAL KITTELSON, B.S., Assistant in Anatomy
B.S., Beloit College, 1913.
- VAMAN RAMCHANDRA KOKATNUR, Ph.D., Assistant in Chemistry
B.S., Bombay, 1912; M.S., Minnesota, 1914; Ph.D., Minnesota, 1916.
- WALTER JOHN KREMER, M.D., Assistant in Urology
M.D., Minnesota, 1911.
- WARD E. KUENTZEL, Student Helper in Chemistry

- CHARLES BYRON KUHLMANN, B.A., Teaching Fellow in History
B.A., Wisconsin, 1906.
- MAURICE BERNHART LAGAARD, C.E., Assistant in Commercial Tests
B.S., Minnesota, 1914; C.E., Minnesota, 1915.
- WALTER McCLELLAN LAUER, B.A., Assistant in Chemistry
B.A., Ursinus College, 1913.
- JOHN WILLIAM LEE, M.D.M.C., Assistant in Ophthalmology and Oto-
Laryngology
M.D.M.C., Hamline, 1908.
- A. IRVING LEVORSEN, Helper in Geology
- CLARENCE I. LILLEHEI, Student Assistant in Operative Dentistry
- MORRIS H. LITMAN, Assistant in Physical Education for Men
- GEORGINA L. LOMMEN, Director of Rural School Normal Training De-
partment
- FRANCES LOUISE LONG, M.A., Assistant in Botany
B.A., Nebraska, 1906; B.S., Chicago, 1907; M.A., Minnesota, 1913.
- EARL ALFRED LOOMIS, B.A., M.D., Assistant in Ophthalmology and
Oto-Laryngology
B.A., Minnesota, 1904; M.D., Minnesota, 1907.
- FRANCES ERMA LOWELL, B.A., Scholar in Philosophy and Psychology
B.A., Minnesota, 1915.
- ELLSWORTH LOWRY, M.A., Teaching Assistant in Education
B.A., Texas, 1909; M.A., Columbia, 1913.
- OSCAR LUFT, Student Helper in Chemistry
- RICHARD LUNDQUIST, Chief Technician, Pathology and Bacteriology
- MARIE CAROLINE LYLE, M.A., Assistant in English
B.A., Minnesota, 1911; M.A., Minnesota, 1912.
- JAMES MCCARTHY, Assistant in Mines Experiment Station
- CHARLES NAUMANN McCLOUD, Phm.D., M.D., Lecturer in First Aid to
the Injured, College of Pharmacy
Phm.D., Minnesota, 1895; M.D., Minnesota, 1901.
- JOHN CHARNLEY MCKINLEY, B.S., Assistant in Anatomy
B.S., Minnesota, 1915.
- FRANK STEWART MCKINNEY, M.D., Assistant in Medicine
B.A., College of Jacksonville, 1907; M.D., Northwestern, Chicago, 1911.
- GOLDER McWHORTER, M.D., Teaching Fellow in Surgery
B.S., University of Chicago, 1911; M.D., Rush Medical College, 1913.
- RITA DALLAS MACMULLAN, M.A., Research Assistant in Anthropology
B.A., Minnesota, 1912; M.S., Minnesota, 1914.
- THERESA MAIER, Scholar in Music
- ALDEN WASHINGTON MALCOMSON, B.S., Assistant in Animal Husbandry
B.S., Minnesota, 1916.
- THOMAS JAMES MALONEY, M.D., Assistant in Ophthalmology and Oto-
Laryngology
M.D., Minnesota, 1901.

- ARTHUR E. MARK, M.D., Teaching Fellow in Ophthalmology and Otolaryngology
B.S., Minnesota, 1913; M.D., Minnesota, 1915.
- ERNEST S. MARIETTE, M.D., Assistant in Medicine
B.S., Minnesota, 1911; M.D., Minnesota, 1913.
- WALTER WINFIELD MARSHALL, M.A., Assistant in Animal Biology
B.A., Ohio, 1913; M.A., Rice Institute, 1916.
- WALTER JEFFRES MATHERLY, M.A., Scholar in Economics
B.A., William Jewell College, 1915; M.A., Washington University, 1916.
- FAYETTE JAMES MEADE, Assistant in Dairy Husbandry
- WILLIAM METHLEY, Lecture Assistant in Chemistry
- JOSEPH CLEMENT MICHAELS, M.D., Assistant in Nervous and Mental Diseases
B.S., Minnesota, 1912; M.D., Minnesota, 1913.
- FREDERICK PAUL MOERSCH, M.D., Assistant in Neurology
B.S., Minnesota, 1911; M.D., Minnesota, 1913.
- MARTHA B. MOORHEAD, M.D., Lecturer in Hygiene
M.D., Woman's Medical College of Pennsylvania, 1892.
- PAUL D'EQUILLY-MORIN, Docteur de l'Université de Paris, Professorial Lecturer in Romance Languages
B.L., Laval (Canada) 1906; B.S., Laval, 1907; B.A., Laval, 1908; LL.B., Laval, 1911; Docteur de l'Université de Paris, 1913.
- RALPH EDWIN MORRIS, M.D., Teaching Fellow in Medicine
M.D., Colorado, 1902.
- MARJORIE ANNE MORTLAND, B.A., Theme Clerk in Rhetoric
B.A., Minnesota, 1913.
- ALLEN T. NEWMAN, M.S., Assistant in Chemistry
B.S., Nebraska, 1912; M.S., Minnesota, 1916.
- DAGNY EGEDE NISSEN, B.A., Scholar in Scandinavian
B.A., Minnesota, 1913.
- EDGAR H. NORRIS, B.S., Assistant in Anatomy
B.S., Minnesota, 1915.
- BOTTOLF M. OHNSTAD, Assistant in the Department of Physical Education for Men
- BLANCHE OSWALD, B.A., Assistant in English, Director Physical Training for Girls, University High School
B.A., Minnesota, 1916.
- J. CLYDE OWENS, Student Helper in Chemistry
- CHARLES REIDISEL PARK, B.A., Assistant in Chemistry
B.A., Cornell, 1916.
- CHARLES H. PASKE, Student Assistant in Crown and Bridge Work
- EMILY HELEN PAYNE, Assistant in Animal Biology
B.S., Macalester, 1915.
- NAY O. PEARCE, M.D., Teaching Fellow in Pediatrics
M.D., Minnesota, 1905.
- VINNIE ARAH PEASE, M.S., Teaching Fellow in Botany
B.S., College of Puget Sound, 1907; M.S., Washington, 1916.

- ANNA CAROLINE PETERSON, B.A., Assistant in Chemistry
B.A., Minnesota, 1916.
- EVERETT M. PRICHARD, Assistant in Dairy Husbandry
- MAX PETER RAPACZ, B.A., Scholar in Political Science
B.A., Minnesota, 1916.
- SERAPHIM JOSEPH REICHERT, B.A., Assistant in Chemistry
B.A., Miami, 1915.
- GUSTAV ADOLPH RENZ, M.D., G.Ph.m., Assistant in Gynecology and
Obstetrics
M.D., Pennsylvania; B.S., Pennsylvania; G.Ph.m., Philadelphia College of Pharmacy
- ADOLPH RINGOEN, M.A., Assistant in Animal Biology
B.A., Iowa, 1909; M.A., Minnesota, 1913.
- HUGO RINGSTROM, B.A., Assistant in Chemistry
B.A., Minnesota, 1914; B.S., Minnesota, 1915.
- MORRIS ROBERTS, B.A., Albert Howard Scholarship
B.A., Minnesota, 1916.
- OSWALD ROGNLEY, B.A., Scholar in Physics
B.A., St. Olaf, 1915.
- CLAYTON ORD ROST, M.A., Assistant Soils Chemist, with the rank of
Instructor, Agricultural Experiment Station
B.S., Nebraska, 1911; M.A., Nebraska, 1912.
- ERNEST G. ROTH, B.S., Laboratory Assistant in Soils, Agricultural Ex-
periment Station
B.S., Minnesota, 1916.
- CLARENCE RUCHHOFT, Student Helper in Chemistry
- HELEN SANBORN, B.A., Artist and Assistant in Animal Biology
B.A., Minnesota, 1911.
- SHINJIRO SATO, B.S., Special Analyst in Agricultural Biochemistry
B.S., Washington State College, 1915.
- DOROTHY SCHAFFNIT, B.A., Scholar in German
B.A., Minnesota, 1916.
- HARRIET WINSLOW SEWALL, B.A., Librarian, Department of Agriculture
B.A., Minnesota, 1906.
- WILLIAM MOSES SHAW, B.S., Laboratory Assistant in Soils, Agricultural
Experiment Station
B.S., Minnesota, 1916.
- WILSON P. SHORTRIDGE, M.A., Teaching Assistant in History
B.A., Indiana, 1907; M.A., Wisconsin, 1911.
- ARNOLD WILKINSON SHUTTER, B.A., Teaching Fellow in German
B.A., Yale, 1914; M.A., Minnesota, 1916.
- FAUS P. SILVERNALE, Ph.B., Assistant in Animal Biology
Ph.B., Hamline, 1913.
- EDWARD PHELAN SLATER, B.S., Assistant in Physiology
B.S., Minnesota, 1916.
- ETHEL M. SLIDER, B.A., Technician in Animal Biology
B.A., Carleton, 1915.

- CHARLES E. SMITH, JR., M.D., Assistant in Pediatrics
B.A., Yale, 1904; M.D., Pennsylvania, 1908.
- HOMER R. SMITH, M.D., Assistant in Medicine
M.D., Minnesota, 1907.
- MARGARET ISABEL SMITH, M.D., Assistant in Ophthalmology and Oto-
Laryngology
M.D., Minnesota, 1906.
- ALBERT M. SNELL, B.S., Assistant in Physiology
B.S., Minnesota, 1916.
- FREDERIC JOSEPH SOUBA, M.A., Assistant in Gynecology and Obstetrics
B.S., Minnesota, 1908; M.D., Minnesota, 1910.
- DAVID SPRIESTERSBACH, M.S., Assistant in Agricultural Biochemistry
B.S., Minnesota, 1912; M.S., Minnesota, 1915.
- HARVEY L. STALLARD, Ph.B., Assistant in Botany
Ph.B., Ottawa University, 1909.
- COURT R. STANLEY, M.D., Assistant in Medicine
- CHESTER ARTHUR STEWART, M.A., Assistant in Anatomy
B.A., Missouri, 1914; M.A., Minnesota, 1915.
- HERBERT A. STRATE, Student Assistant in Pharmacy
- HENRY C. STUHR, M.D., Assistant in Surgery
M.D., Minnesota, 1900.
- JOSEPH DENNIS SULLIVAN, B.A., Scholar in Political Science
B.A., Minnesota, 1914.
- JOHN GORDON SWEENEY, B.A., Assistant in Chemistry
B.A., Columbia, 1915.
- ROOD TAYLOR, M.D., Teaching Fellow in Pediatrics
M.D., Michigan, 1910.
- GEORGE A. THIEL, Helper in Animal Biology
- FAITH THOMPSON, Student Helper in History
- MARK JOSEPH THOMPSON, M.S., Superintendent, in charge of the North-
east Demonstration Farm and Experiment Station, Duluth
B.S. in Agr., Minnesota, 1911; M.S., Minnesota, 1912.
- ELLA ALICE M. THORP, B.A., Assistant in Mathematics
B.A., Minnesota, 1914.
- ROSS A. THUMA, M.S., Assistant in Agricultural Biochemistry
B.S., Otterbein, 1911; M.S., Minnesota, 1915.
- KARL HENRY TROUT, B.A., Scholar in History
B.A., Minnesota, 1916.
- ROSE M. TSCHIDA, B.A., Scholar in German
B.A., Minnesota, 1916.
- RALPH SYLVESTER UNDERWOOD, B.A., Scholar in Astronomy
B.A., Minnesota, 1916.
- WILLIAM DORNEY VALLEAU, B.S., Assistant in Horticulture, Agricul-
tural Experiment Station
B.S., Minnesota, 1913.

- GUSTAVE LEOPOLD VAN ROOSBROECK, Teaching Fellow in Romance Languages
Aspirant Candidat, University of Brussels, 1909.
- FLORIEN VAUGHN, B.A., Assistant in Anatomy
B.A., Missouri, 1915.
- PERCIVAL WILLIAM VIESSELMANN, M.A., LL.B., Assistant in Political Science
B.A., Minnesota, 1912; M.A., Minnesota, 1913; LL.B., Minnesota, 1915.
- JOHAN FRITJOF VIK, B.A., Scholar in Physics
B.A., Gustavus Adolphus, 1916.
- HENRY HOPKINS WADE, E.M., Assistant in Mines Experiment Station
E.M., Minnesota, 1915.
- PERCY A. WARD, M.D., Assistant in Pathology
B.S., Minnesota, 1914; M.D., Minnesota, 1916.
- FREDERICK M. WASHBURN, Student Helper in Chemistry
- FREEMAN WEISS, B.S., Shevlin Fellow in Agriculture, Assistant in Horticulture
B.S., Minnesota, 1915.
- H. JOURNEY WELLES, M.D., Teaching Assistant in Ophthalmology and Oto-Laryngology
M.D., Minnesota, 1901.
- ANTON G. WETHALL, M.D., Assistant in Urology
B.S., Valparaiso, 1898; M.D., Minnesota, 1903.
- E. GIDEON WIDELL, Student Helper in Chemistry
- RAY MILTON WILCOX, Assistant in Rhetoric
Knox and Columbia College of Expression, Chicago.
- HENRY LANE WILLIAMS, B.A., M.D., Director of Athletics
B.A., Yale, 1891; M.D., Pennsylvania, 1895.
- WARREN WILLIAMSON, M.A., Assistant in Entomology, Agricultural Experiment Station
B.A., Knox College, 1897; M.A., Illinois, 1911.
- RUTH WILSON, B.A., 1890 Scholarship
B.A., Minnesota, 1916.
- J. RUSSELL WINSLOW, B.S., Assistant in Agricultural Biochemistry
B.S., Earlham, 1915.
- OTTO L. WINTER, B.A., M.D., Assistant in Medicine
- HENRY W. WOLTMANN, M.D., Teaching Fellow in Nervous and Mental Diseases, and Pathologist, Out-Patient Department
B.S., Minnesota, 1911; M.D., Minnesota, 1913.
- MARION WOODWARD, B.A., Scholar in Romance Languages
B.A., Wells, 1915.
- VERA LINN WRIGHT, M.A., Assistant in Mathematics
B.A., Minnesota, 1914; M.A., Minnesota, 1915.
- ALEXANDER J. WUERTZ, M.A., Research Assistant in Agricultural Biochemistry
B.A., Nebraska, 1915; M.A., Nebraska, 1916.

MEDICAL FELLOWS ON THE MAYO FOUNDATION

- ALFRED WASHINGTON ADSON, M.D., Medical Fellow on the Mayo Foundation
B.S., Nebraska, 1910; M.D., Pennsylvania, 1914.
- ALEXANDER ARCHIBALD, M.B., Ch.B., Medical Fellow on the Mayo Foundation
M.B., Ch.B., Edinburgh, 1910.
- WINIFRED M. ASHBY, M.S., Medical Fellow on the Mayo Foundation
B.S., Chicago, 1903; M.S., Washington, 1906.
- LEO PACCI BELL, M.D., Medical Fellow on the Mayo Foundation
B.S., Missouri, 1912; M.D., Harvard, 1915.
- DAVID MAYO BERKMAN, M.D., Medical Fellow on the Mayo Foundation
B.S., Minnesota, 1909; M.D., Rush Medical, 1915.
- JOHN MINOR BLACKFORD, M.D., Medical Fellow on the Mayo Foundation
M.D., Virginia, 1910.
- ALBERT COMPTON BROTHERS, M.D., Medical Fellow on the Mayo Foundation
M.D., Virginia, 1910.
- JOSEPH C. BROGDEN, M.D., Medical Fellow on the Mayo Foundation
B.A., Wofford, 1909; M.D., Maryland, 1914.
- LOUIS A. BUIE, M.D., Medical Fellow on the Mayo Foundation
B.A., South Carolina, 1911; M.D., Maryland, 1915.
- HERMON CAREY BUMPUS, JR., M.D., Medical Fellow on the Mayo Foundation
M.D., Harvard, 1915.
- JOHN LESLIE BUTSCH, M.D., M.S., Medical Fellow on the Mayo Foundation
B.S., Purdue, 1906; M.D., Johns Hopkins, 1912; M.S., Purdue, 1913.
- FRANK HOUGH CARBER, M.D., Medical Fellow on the Mayo Foundation
M.D., Columbia, 1912.
- E. FRANK CHASE, M.D., Medical Fellow on the Mayo Foundation
M.D., Minnesota, 1905.
- JOHN LEWIS CRENSHAW, M.D., Medical Fellow on the Mayo Foundation
M.D., Virginia, 1906.
- EDGERTON LAFAYETTE CRISPIN, M.D., Medical Fellow on the Mayo Foundation
Ph.B., Illinois, 1902; M.D., Johns Hopkins, 1906.
- WILLIAM GREGG CRUMLEY, M.D., Medical Fellow on the Mayo Foundation
M.D., Atlanta College of Physicians and Surgeons, 1912.
- CARLETON DEDERER, M.D., Medical Fellow on the Mayo Foundation
B.A., Cornell, 1904; M.D., Columbia, 1907.
- A. U. DESJARDINE, Medical Fellow on the Mayo Foundation
M.D., Pennsylvania, 1912.

- CHARLES HERBERT DOE, M.D., Medical Fellow on the Mayo Foundation
M.D., Pennsylvania, 1912.
- DELLA GAY DRIPS, B.A., Medical Fellow on the Mayo Foundation
B.A., Wisconsin, 1907.
- RAYMOND MYERS EVANS, M.D., Medical Fellow on the Mayo Foundation
B.S., Vanderbilt, 1911; M.D., Vanderbilt, 1914.
- PAUL ALEXANDER FERRIER, M.D., Medical Fellow on the Mayo Foundation
B.A., Tarkio, 1906; M.D., Pennsylvania, 1911.
- WILFRED PROTACIO FRELIGH, M.D., Medical Fellow on the Mayo Foundation
B.A., Minnesota, 1911; M.D., Minnesota, 1913.
- WILLA MAY FRICKE, M.D., Medical Fellow on the Mayo Foundation
B.A., Barnard, 1906; M.D., Johns Hopkins, 1912.
- HAZEL MARIE GRAY, M.S., Medical Fellow on the Mayo Foundation
M.S., Wisconsin, 1915.
- DORR FOSTER HALLENBECK, M.D., Medical Fellow on the Mayo Foundation
M.D., Northwestern, 1908.
- STUART WILLIAM HARRINGTON, M.D., Medical Fellow on the Mayo Foundation
M.D., Pennsylvania, 1913.
- HOWARD RUSSELL HARTMAN, M.D., Medical Fellow on the Mayo Foundation
B.S., Michigan, 1912; M.D., Michigan, 1914.
- JOHN MARTIN HAYES, M.D., Medical Fellow on the Mayo Foundation
B.S., Carleton, 1904; M.D., Minnesota, 1910.
- JOSEPH EUGENE HEARD, M.D., Medical Fellow on the Mayo Foundation
M.D., Tulane, 1914.
- CARL ARTHUR HEDBLOOM, M.D., Medical Fellow on the Mayo Foundation
B.A., Colorado, 1907; M.A., Colorado, 1908; M.D., Harvard, 1911.
- C. C. HOKE, M.D., Medical Fellow on the Mayo Foundation
B.A., Mt. St. Mary's, 1910; M.D., Maryland, 1914.
- EDMUND JOSEPH HORGAN, M.D., Medical Fellow on the Mayo Foundation
M.D., Washington, 1908.
- VERNE CARLTON HUNT, B.S., Medical Fellow on the Mayo Foundation
B.S., Iowa, 1910.
- CLAPHAM PRICE KING, M.D., Medical Fellow on the Mayo Foundation
M.D., Pennsylvania, 1912.
- JOHN JOSEPH WILLIAMS LOONEY, M.D., Medical Fellow on the Mayo Foundation
M.D., Virginia, 1909.

- HARRY MATTHEW LOWELL, M.D., Medical Fellow on the Mayo Foundation
M.D., Northwestern, 1914.
- GEORGINE LUDEN, M.D., Medical Fellow on the Mayo Foundation
Artzt, Ludwig-Mase (Munich), 1911; M.D., Ludwig-Mase (Munich), 1912.
- FRANK EDWARD McEVoy, M.D., Medical Fellow on the Mayo Foundation
B.S., Pennsylvania, 1910; M.D., Pennsylvania, 1913.
- FRANCIS BARTHOLOMEW McMAHON, M.D., Medical Fellow on the Mayo Foundation
B.S., Wisconsin, 1911; M.D., Pennsylvania, 1913.
- JAMES ROBERT McVAY, M.D., Medical Fellow on the Mayo Foundation
B.A., Missouri, 1912; M.A., Missouri, 1913; M.D., Johns Hopkins, 1915.
- JOHN CARRUTHERS MASSON, M.D., Medical Fellow on the Mayo Foundation
M.D., Toronto, 1906.
- WILLIAM WHITELOCK MATTSON, M.D., Medical Fellow on the Mayo Foundation
M.D., Pennsylvania, 1914.
- EDWARD HERMAN MENSING, M.D., Medical Fellow on the Mayo Foundation
M.D., Northwestern, 1909.
- HENRY WILLIAM MEYERDING, M.D., Medical Fellow on the Mayo Foundation
B.S., Minnesota, 1907; M.D., Minnesota, 1909.
- ALBERT MILLER, M.D., Medical Fellow on the Mayo Foundation
B.A., Indiana, 1888; M.D., Marion-Sims College, 1900.
- WILLIAM OSCAR OTT, M.D., Medical Fellow on the Mayo Foundation
B.S., Louisiana, 1910; M.D., Rush Medical, 1914.
- ESTHER M. OWENS, B.A., Medical Fellow on the Mayo Foundation
B.A., Beloit, 1915.
- JOHN DEJARNETTE PEMBERTON, M.D., Medical Fellow on the Mayo Foundation
B.A., North Carolina, 1907; M.D., Pennsylvania, 1911.
- DOROTHY F. PETTIBONE, B.A., Medical Fellow on the Mayo Foundation
B.A., Wisconsin, 1915.
- FRANK ARENTS PLUM, M.D., Medical Fellow on the Mayo Foundation
B.A., Washington, 1911; M.D., Pennsylvania, 1915.
- WILLIAM ALBERT PLUMMER, M.D., Medical Fellow on the Mayo Foundation
M.D., Northwestern, 1910.
- LEE WESLEY POLLOCK, M.D., Medical Fellow on the Mayo Foundation
B.S., Minnesota, 1911; M.D., Minnesota, 1912.
- FRED WHARTON RANKIN, M.D., M.A., Medical Fellow on the Mayo Foundation
B.A., Davidson, 1905; M.A., St. Johns, 1915; M.D., Maryland, 1909.

- LESLIE HALL REDELINGS, M.D., M.S., Medical Fellow on the Mayo Foundation
B.S., Northwestern, 1909; M.S., Northwestern, 1910; M.S., Johns Hopkins, 1914.
- THADDEUS BENJAMIN REEVES, M.D., Medical Fellow on the Mayo Foundation
B.S., Clemson, 1909; M.D., Virginia, 1914.
- ROBERT LEE SANDERS, M.D., Medical Fellow on the Mayo Foundation
M.D., Nashville, 1906.
- STANLEY JOSEPH SEEGER, M.D., Medical Fellow on the Mayo Foundation
M.D., Northwestern, 1911.
- J. H. SHEPHARD, M.D., Medical Fellow on the Mayo Foundation
B.S., Chicago, 1902; M.D., Rush Medical, 1904.
- LEDA JUNE STACY, M.D., Medical Fellow on the Mayo Foundation
M.D., Rush Medical, 1905.
- GEORGE D. SUTTON, M.D., M.A., Medical Fellow on the Mayo Foundation
B.A., Alma, 1908; M.A., Columbia, 1911; M.D., Michigan, 1914.
- GEORGE E. SUTTON, M.D., Medical Fellow on the Mayo Foundation
B.S., Minnesota, 1913; M.D., Minnesota, 1914.
- THADDEUS SZLAPKA, M.D., Medical Fellow on the Mayo Foundation
B.S., Pennsylvania, 1911; M.D., Pennsylvania, 1914.
- WILLIAM JOSEPH TUCKER, M.D., M.A., Medical Fellow on the Mayo Foundation
B.A., St. Louis, 1910; M.A., St. Louis, 1912; M.D., St. Louis, 1914.
- PORTER PAISLEY VINSON, M.D., M.A., Medical Fellow on the Mayo Foundation
B.S., Davidson, 1909; M.A., Davidson, 1910; M.D., Maryland, 1914.
- JAMES CLOUDSLEY WALKER, M.D., Medical Fellow on the Mayo Foundation
M.D., Virginia, 1914.
- EDWARD HOWLAND WELD, M.D., Medical Fellow on the Mayo Foundation
B.A., Michigan, 1905; M.D., Michigan, 1907.
- JOSEPH P. WEYRENS, M.D., Medical Fellow on the Mayo Foundation
B.S., Minnesota, 1905; M.D., Minnesota, 1907.
- FREDERICK ARTHUR WILLIUS, M.D., Medical Fellow on the Mayo Foundation
B.S., Minnesota, 1912; M.D., Minnesota, 1914.

THE UNIVERSITY OF MINNESOTA

HISTORICAL SKETCH

When Minnesota was organized as a territory, March 3, 1849, it was understood that a grant of public lands would be made by Congress for the endowment and support of a university, as in the case of all other states carved out of this old northwest territory.

On December 10, 1850, Delegate Sibley gave notice of a bill to grant two townships. (46,080) acres, which became law on February 19, 1851. Meantime the Minnesota Legislature had by Act, February 13, created the University of Minnesota and made over to that corporation the proceeds of all lands which Congress might grant.

The location of the institution was fixed by this law "at or near the Falls of St. Anthony," by virtue of an understanding relating to the distribution of public buildings. A board of twelve Regents elected in classes by the legislature had charge till 1860. In the fall of 1851 a preparatory school was opened. In 1856, intoxicated by the boom which was then raging, the Regents began the erection of the rear part of the "Old Main" Building. Before it was finished, the panic of 1857 came on. The board could not pay the contractors nor meet the interest on the bonds they had been authorized to sell.

In the winter of 1860 the Legislature replaced the old board of twelve regents by one of five appointed by the Governor. At the end of four years this board had not been able to put the finances of the University on a sound footing. Senator John S. Pillsbury laid before the Legislature of 1864 a plan to pay off the accumulated debt by the sale of less than one third of the land grant. A special board of three regents, headed by Mr. Pillsbury, was created to make the experiment. At the close of 1866 this board reported the debt substantially liquidated. A debt of gratitude is due to the creditors and bondholders for scaling down their just claims and accepting sums far below their dues. By means of a small appropriation the special board renovated the building, purchased furniture and appliances, and in November, 1867, opened the preparatory department, to which girls as well as boys were admitted.

This board having accomplished its purpose prepared for the Legislature the bill which, enacted into law February 13, 1868, became the actual charter of the University. By far the most important element was that which united with the university endowment proper the expected income from the congressional land grant of 1862 for the support of colleges of Agriculture and Mechanic Arts.

At the close of the college year of 1869 a small company of preparatory students were found ready for college instruction. A faculty of nine professors and instructors was elected and began their work in September. In this year William Watts Folwell was appointed president.

In 1873 two students were graduated at the first commencement. Some twenty years now passed in quiet work and growth, mostly in the College of Science, Literature, and the Arts. A good beginning was made in that of Engineering and Mechanic Arts, but in spite of the most earnest endeavors by the Regents the College of Agriculture developed slowly. There was little demand for proper agricultural instruction and the pedagogy of that branch had not been developed.

In the year 1870 Congress confirmed to the State a second grant of public land for a state University ingeniously embodied in the enabling act of February 26, 1857, which the departmental authorities at Washington had persistently refused to recognize.

In September, 1884, Cyrus Northrop succeeded to the presidency, and not long after, began that great development familiar to all.

The Colleges of Law and Medicine were organized. New buildings sprang up, nobly equipped, and the faculties were reinforced as means accumulated. The growth of the College of Agriculture has been remarkable. The congressional appropriations for experiment stations and additional endowment have greatly increased its efficiency and prosperity. The College of Engineering has also enjoyed a rapid and cumulative development. The Colleges of Pharmacy, Dentistry, the Schools of Mines, Chemistry, Education, and the Graduate School have been added in recent years, the result of public demands for special technical training and research.

President Northrop resigned in 1910, and, on April 1, 1911, George Edgar Vincent, Ph.D., LL.D., Dean of the Faculties of Arts, Literature, and Science of the University of Chicago, succeeded to the presidency of the University.

DESCRIPTION OF DEPARTMENTS

The College of Science, Literature, and the Arts offers a four-year course of study leading to the degree of Bachelor of Arts. The work is elective within certain limitations intended to secure a proper balance between breadth of foundation and liberal culture on the one hand and specialized training on the other. A four-year course in Business Education was introduced in 1915-1916.

In this college are given also the first two or three years of the combined courses leading to the degrees of Bachelor of Science or Bachelor of Arts and Doctor of Medicine; the two years of college work required for entrance to the Law School; and various non-professional subjects required in other schools and colleges of the University.

The College of Engineering and Architecture offers courses of study of five years each, in Civil, Mechanical, and Electrical Engineering, and Architecture, leading to the degrees of Civil, Mechanical, and Electrical Engineer, and Architect. The degrees of Bachelor of Science in Engineering and Bachelor of Science in Architecture are conferred at the end of the fourth year. This college also offers work in the Graduate School leading to the degree of Master of Science.

Engineering for Manufacturers, Contractors, and Administrators.—The four-year course in General Engineering, leading to the degree of Bachelor of Science in Engineering, is excellent preparation for careers in certain business fields akin to engineering. These semi-engineering activities in part are: the operation of such public utilities as light and power plants, traction companies, railway and irrigation systems; the management of manufacturing establishments, such as automobile factories, locomotive works, flour and saw mills; the direction of construction in contracting work; salesmanship in the materials of construction including water wheels, electrical and other machinery. The course includes the mathematics, shop work, physics, mechanics, and chemistry of the standard Engineering Course. It includes liberal electives for such specialized work as will serve to fit men for the particular fields anticipated. Such subjects as Economics, Sociology, Psychology, Business Management, Accounting Principles, Banking, Public Utilities, and Business Law may be taken as supplementary to the technical subjects.

In the course in Civil Engineering, a period of five weeks is spent in camp. This summer survey work is required of all students in this course in the vacation following the junior year.

Excellent facilities exist in the college for practicing engineers to carry on graduate work in engineering and architecture.

The College of Agriculture offers four-year courses in Agriculture and Home Economics leading to the degree of Bachelor of Science. The work in Agriculture includes general courses in Agricultural Education, Manual Training, Agronomy and Farm Management, Dairy and Animal Husbandry, and Horticulture. Special Agricultural Science Courses are

also offered in Agricultural Chemistry, Agricultural Economics, Entomology, Plant Pathology, and Soils. The courses in Home Economics include a general course, a teachers' course in the general field of Home Economics, and a special teachers' course in Textiles and Clothing.

The College offers to all students in Agriculture and Home Economics the courses necessary for the University Teachers' Certificate in preparation for teaching in secondary schools.

Graduate work is offered in all special lines of Agriculture. The special problems are for the most part correlated with work in the Experiment Station.

The Summer Session of the College of Agriculture begins about the middle of June and continues for six weeks. Courses are offered in Agriculture and Home Economics adapted to the needs of teachers and others not in attendance during the regular college session and also to regular students. The State Teachers' Training School is held at the same time and place.

The College of Forestry offers a four-year course leading to the degree of Bachelor of Science. In addition to the work given at the University Farm, six months' work, two freshmen and four junior, is given at Itasca State Park, where a well-equipped demonstration forest is available as a laboratory. The college also controls a Forest Experiment Station at Cloquet, which offers a good field for graduate students and original research. Provision is made for graduate work in all the various lines of silviculture and utilization.

The Schools of Agriculture offer three-year courses of study adapted especially to the needs and opportunities of farm boys and girls. They offer courses of special training for practical farm life and for practical home economics. The Central School is located at St. Anthony Park; the Northwest School, at Crookston; and the West Central School, at Morris.

The Dairy School offers a five-weeks' course of practical instruction in dairying, especially designed for those who are actually engaged in the manufacture of butter and cheese. (November and December.)

The Farmers' and Home-Makers' Week is held early in January. Instruction in Agriculture and Home Economics is offered in regular classes, important conferences are held and many agricultural organizations of the State hold their sessions at this time.

A Short Course for Veterinarians, one week in length, is held in February. Lectures are given by members of the State Live Stock Sanitary Board and by members of the staffs of the Division of Veterinary Medicine and other divisions of the College and clinical work is conducted by veterinarians of national reputation.

The School of Traction Engineering is a five-weeks' course of practical instruction in the operation and handling of traction engines and other farm machinery. Engineers' licenses of different grades are given according to previous experience. (May.)

The Experiment Station conducts experiments along the various lines of agriculture which are of interest to farmers. It is closely correlated with the College of Agriculture. Its object is the solution of agricultural problems of importance in Minnesota. It offers, secondarily, educational and research advantages to undergraduate and graduate students of the College of Agriculture. The main station is located at St. Anthony Park; substations are located at Crookston, Grand Rapids, and Morris. Demonstration experimental farms are also located at Waseca and Duluth.

The Extension Work of the Department of Agriculture is correlated with the Farmers' Institute work and aims to bring to the farmers of the State information leading to the improvement of the farm and home. It reaches farmers by institutes, lectures, demonstrations, and demonstration farms, industrial and agricultural contests, a press bureau, and by correspondence and personal visits.

The Law School offers a course covering a period of three academic years, leading to the degree of Bachelor of Laws. Candidates for admission to the Law School must have completed at least two years of work in the College of Science, Literature, and the Arts of the University of Minnesota, or some other college or university of equal grade. A special pre-legal course of two years, covering those subjects which are particularly desirable as preliminary to the study of law, is offered by the College of Science, Literature, and the Arts. Seniors in that college are permitted to take the work of the first-year class in law and count the same as the equivalent of the one year's work toward their Academic degree. This provision enables students to obtain the degrees of Bachelor of Arts and Bachelor of Laws in six years. The so-called "case system" method of teaching law, approved by the leading law schools of the country, is employed.

The Medical School is the only institution giving medical instruction in the State of Minnesota.

Admission to the Medical School is obtained through the College of Science, Literature, and the Arts of this or other recognized universities.

All students are required to secure the B.S. or B.A. degree before receiving the degree of Doctor of Medicine. The College of Science, Literature, and the Arts and the Medical School unite in offering the following courses of study:

1. A combined course leading to the degrees of Bachelor of Science and Doctor of Medicine and consisting of: (a) two years of work in the College of Science, Literature, and the Arts, including certain required subjects (see page 91); (b) five years in the Medical School, covering four years of graded study and one year in a hospital internship or an advanced laboratory study or research.

2. A combined course leading to the degrees of Bachelor of Arts and Doctor of Medicine. Students who present three years of properly selected work in the College of Science, Literature, and the Arts, including the required subjects noted, may elect the first year in medicine in their senior academic year, receiving the B.A. degree at its close and the

M.D. degree upon the successful completion of the remaining four years in medicine.

3. *The School of Embalming* offers an annual course of eight weeks. A certificate covering the successful completion of the work is granted, which is accepted by the State Board of Health, in lieu of examination for an embalmer's license.

4. *The School for Nurses*, organized in connection with the University Hospital service, is under the control of the Faculty of the Medical School.

It offers a three-year course, the first six months occupied in preliminary study in the Medical School, in the School of Chemistry, and in the hospital service; the remaining two and one-half years in residence and in hospital and out-patient training.

5. Graduate and research work is offered to qualified students.

The College of Dentistry offers a four-year course of study, of nine months each, leading to the degree of Doctor of Dental Surgery.

The University offers an optional six-year course of study leading to the degrees of Bachelor of Arts and Doctor of Dental Surgery at the end of the six-year course.

The School of Mines offers three regular courses, namely, Mining Engineering, Mining Engineering (specializing in Geology), and Metallurgy, leading to the degrees of Engineer of Mines (E.M.), Engineer of Mines (in Geology) [E.M. (Geology)], and Metallurgical Engineer (Met.E.), respectively.

Students with satisfactory preparation in Elementary and Higher Algebra and Plane and Solid Geometry may be graduated in four years. Students presenting high-school credentials to the extent indicated on page 93, may be graduated in five years.

Courses in the school are designed for the purpose of preparing men to enter their profession with a thoro grounding in mathematics, in the sciences, and in the fundamental principles of mining engineering and metallurgy. A system of apprenticeship during summer vacations has been inaugurated. This work has become part of the curriculum and is required of all students who are candidates for degrees.

The College of Pharmacy has discontinued its two-year course. Its regular and shortest course now extends over three years and leads to the degree Pharmaceutical Chemist (Phm.C.). A four-year course leading to the degree Bachelor of Science in Pharmacy (B.S. in Phm.) is also offered. This course includes all of the Pharmaceutical Chemist course and the equivalent of one year in the College of Science, Literature, and the Arts. Two graduate courses, leading to the degrees respectively of Master of Science in Pharmacy and Doctor of Science in Pharmacy, are open to those who have the Bachelor's degree in Pharmacy and who have shown exceptional scholarship and ability.

The School of Analytical and Applied Chemistry offers three courses. Two of these, the Analytical and the five-year course in Arts and Chem-

istry, are designed for those who wish to become teachers of chemistry, analysts, and investigators. The four-year Analytical Course leads to the degree of Bachelor of Science in Chemistry, while the Arts and Chemistry Course leads to the degree of Bachelor of Arts after four years and Bachelor of Science in Chemistry at the end of the fifth.

The third or Applied Course extends over five years, leading to the degree of Bachelor of Science at the end of four years and Chemical Engineer at the end of the fifth. These courses aim to give the student a broad foundation in chemistry and some of the allied sciences.

The College of Education offers a practical and a theoretical training for prospective high-school teachers and principals, for principals of elementary schools, for supervisors of special studies, and for superintendents of school systems.

Students are admitted to the college only after the completion of at least two full years of college work, during which time they should have pursued at least one course in general psychology, and prospective high-school teachers should have given especial attention to one or more of the subjects which they expect to teach. The two-year course of study beginning with the junior year, leads to the degree of Bachelor of Arts in Education. A third year leads to the degree of Master of Arts, including advanced studies in education and philosophy, and in one or more of the subjects of the secondary curriculum, at the option of the candidate.

The Graduate School gathers into a single organization and unites for the purpose of administration all the activities of the University in all its schools and colleges in so far as they relate to advanced instruction offered for the second or higher degrees, viz., Master of Arts and Doctor of Philosophy, Master of Science, and Doctor of Science. The privileges of this school are in general open to all who have received Bachelors' degrees from reputable colleges and universities, based on courses substantially equivalent to those at this University.

Graduate work in medicine is maintained by the Medical School and the Mayo Foundation for medical education and research, jointly. The degrees of B.S. and M.D. and one year of intern service in an acceptable hospital are prerequisites of registration. A number of fellowships and scholarships are provided for selected students undertaking graduate courses in chosen specialties in medicine. These courses cover a period of three years and lead to the degree of D.S.

The University Summer Session is organized for six weeks in June and July under the authority of the Board of Regents as a regular part of the University. Courses carrying university credit, including all the subjects of the state professional certificate, are offered for college students, experienced teachers, and others who desire the opportunity for advanced study. Students may secure not more than six credits at one session.

Courses in Agriculture and Home Economics, for which university credit is given, are offered by the College of Agriculture.

Summer courses are offered also by the College of Engineering, the Medical School, and the College of Dentistry.

Special Courses.—In practically all of the colleges, students of mature age and adequate preparation are permitted to pursue, under the direction of the Faculty, one or two distinct lines of study.

University Extension.—All extension work of the University of Minnesota has been established as an organic unit of the University under the title of Extension Service. The Extension Service of the University functions in two main lines, the General Extension Division and the Agricultural Extension Division.

The work of the Agricultural Extension Division is indicated on page 67. The General Extension Division conducts evening classes and correspondence courses, provides communities with faculty lecturers and lyceum courses of popular lectures and entertainments, maintains a municipal reference bureau and a lantern-slide loan system, fosters debating in the public schools, holds an annual short course in merchandising, offers guidance for the development and community centers, and manages an annual program of University Weeks in certain towns of the state.

Bulletins of evening classes, correspondence, and lecture courses may be had upon request.

SCHOLARSHIPS, LOANS, AND PRIZES

GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

Assistants and Scholars

It is the policy of the University to encourage graduate study and to provide for assistance in laboratories, reading of test and examination papers, supervision of note-books, and similar services by the appointment of assistants and scholars in departments where such services are required. The general principles which now control the making of such appointments are: (1) the appointments are made by the Board of Regents upon the nomination of the head of the department concerned and its ratification by the dean of the college; (2) appointments are for one year only, but may be renewed; (3) the appointees must be graduate students who are taking work along the line of their appointments; (4) they are not regularly placed in charge of classes, and when exceptions are made to meet emergencies the arrangement is regarded as a temporary one.

The following Assistantships and Scholarships are also open to graduate students. They carry stipends ranging from \$225 to \$800 with remission of tuition in the Graduate School. Appointments are made upon the recommendation of the departments concerned. Applications may be made through the Dean of the Graduate School.

Agriculture	16 Assistants
Animal Biology	{ 2 Teaching Fellows
	{ 3 Assistants
Astronomy	1 Scholar
Botany	3 Assistants
Chemistry	7 Assistants
Comparative Philology	1 Scholar
Economics	{ 2 Assistants
	{ 2 Scholars
Education	2 Scholars
English	{ 1 Assistant
	{ 2 Scholars
Geology and Mineralogy.....	{ 1 Teaching Fellow
	{ 2 Scholars
German	{ 1 Teaching Fellow
	{ 2 Scholars
History	{ 2 Teaching Fellows
	{ 2 Scholars
Mathematics	{ 1 Assistant
	{ 1 Scholar

Medical School	} 6 Teaching Fellows* 36 Mayo Fellows 5 Scholars
Philosophy and Psychology .....		2 Scholars
Physics	2 Scholars
Political Science	2 Scholars
Rhetoric and Public Speaking.....	6 Scholars
Romance Languages	} 2 Teaching Fellows 1 Scholar
Scandinavian .....		1 Scholar
Sociology and Anthropology.....	2 Scholars

The Shevlin Fellowships

Four fellowships, each of the value of \$500 a year, were established in the Graduate School through the gift of \$40,000 by the late Honorable Thomas H. Shevlin, of Minneapolis. They are open to graduate students, one each in the Colleges of Agriculture, Chemistry, Medicine, and Science, Literature, and the Arts. Applications for these fellowships must be made on or before March 1. Blank applications can be obtained from the Dean of the Graduate School.

The Albert Howard Scholarship Fund

Under the last will and testament of Mr. James T. Howard, of St. Johnsbury, Vermont, a fund of \$4,000 was left to the University of Minnesota, for the purpose of establishing a scholarship as a memorial to his son, Albert, and to be known as the Albert Howard Scholarship. This scholarship is awarded to graduate students in the College of Science, Literature, and the Arts and amounts to \$240 a year. The income from this fund will not be available during the year 1916-17.

Class of 1890 Scholarship

As a gift of the class of 1890 the annual income from the sum of \$2,500 became available in September, 1916, to a graduate of the College of Science, Literature, and the Arts or the College of Engineering who shows distinguished ability and initiative as a student and who desires to make further preparation for public service.

UNDERGRADUATE SCHOLARSHIPS

Free and Service Scholarships

The following scholarships, open to residents of Minnesota who have been in attendance at the University for at least one semester, will be

* Special Requirements. Address inquiries to Dean of the Medical School.

available after August 1, 1916:

100 semester free scholarships of \$20 each

50 semester service scholarships of \$20 each requiring of the holder eighty hours' service in some division of the University.

Students interested may secure application blanks upon inquiry at the Registrar's Office.

The Moses Marston Scholarship in English

Friends and pupils of the late Professor Moses Marston have given \$1,000 as a memorial fund to him. The annual income of the fund is to be used to further English study. The scholarship is awarded by the English Department as a recognition of special capacity for literary and linguistic studies.

National City Bank Scholarships

The National City Bank of New York City offers to students of the University one or more fellowships each year for the purpose of training young men in banking and foreign trade. The arrangements will include certain periods of practical work and study in the National City Bank.

The Minneapolis College Woman's Club Scholarship

The College Woman's Club of Minneapolis has established a scholarship for the benefit of women students in this University. For the year 1916-17 this scholarship amounts to \$150. In awarding it the preference will be given to students in the junior and senior classes and to graduate students. Application for this scholarship may be made to the Dean of Women.

The St. Paul College Woman's Club Scholarship

The St. Paul College Woman's Club offers for the year 1916-17 a scholarship of \$100. In awarding it, the character, the scholarship, and the need of the applicants will be considered. Whenever possible, preference will be given to young women from St. Paul. Applications for it may be made to the Dean of Women.

STUDENT LOAN FUNDS

Unless otherwise stated, all applications for loans should be made to the Secretary of the President.

The Gilfillan Trust Fund

This fund of \$50,000 is the gift of the Hon. John B. Gilfillan, of Minneapolis, in trust to the University of Minnesota, the annual income

from which shall be at the disposal of the Executive Committee of its Board of Regents either as a gift or a temporary loan to worthy students of the University who are residents of Minnesota. The annual income from the fund is \$2,000, which is loaned to students on their notes in amounts not exceeding \$200 to any one person in one year, at the rate of five per cent per annum. The regulations governing the administration of the income from the fund may be learned by addressing the President of the University.

The Elliot Scholarship Loan Fund

To fulfill the wishes of the late Dr. A. F. Elliot to aid young men who find their efforts to obtain a practical education embarrassed through lack of means, the sum of \$5,000 was placed in the hands of the Board of Regents as a scholarship fund. The income from this fund is loaned students in the School of Mines; the financial needs of the applicant, his scholarship, moral character, enthusiasm shown in his work, and promise of usefulness in his profession are taken into consideration. When money is available, it may be loaned to pay expenses of worthy students during sickness. The loans are to be repaid, without interest, at the earliest convenience of the recipients.

The Puritan Colony Scholarship Loan

The Puritan Colony of the National Society of New England Women has established a loan fund for women students of the University. For the year 1916-17 this scholarship loan amounts to \$100. It is available for women students of New England birth or ancestry. In awarding it the preference will be given to young women in the junior and senior classes. Application for it may be made to the Dean of Women.

School of Agriculture—Class of 1902 Trust Fund

The class of 1902 left with the School of Agriculture a fund of \$100 to assist by temporary loans at a reasonable rate of interest, deserving students needing such help, who are not below the junior class in the School of Agriculture. This fund is in charge of a committee, consisting of the Dean, the Principal, the Preceptress, and the President of the senior class.

The Ludden Trust

In 1902, the late Honorable John D. Ludden of St. Paul gave to the University of Minnesota \$10,000 to be held, invested, and reinvested by the University through its Board of Regents, and the income thereof to be collected, received, and applied by said Board of Regents to the financial assistance of students in the School of Agriculture.

This fund produces \$400 a year. Those wishing to avail themselves of its benefits should apply to the Dean of the Department of Agriculture, who will present the matter to the Board of Regents.

The Ludden Estate Loan Fund

Six hundred and twenty-five dollars is annually available for short or temporary loans in limited amounts to students in any department of the University.

The Ludden Real Estate Loan Fund

The sum of \$3,000 is available for loans to students in any department of the University.

Loan Fund for Women Students

This loan fund for women students of the University was established from the proceeds of a play written by Mrs. George E. Vincent and given under the auspices of the Faculty Women's Club. It is to be used for emergency loans to women students whose character and scholarship recommend them for assistance. Application may be made to the Dean of Women.

Home Economics Self-Government Loan Fund

The Home Economics Self-Government Loan Fund was established in 1913 from the proceeds of a bazaar given by the Home Economics Self-Government Association. It amounts to \$250, and is available for small emergency loans to women in the division of Home Economics whose character and scholarship recommend them for assistance. Application may be made to the Dean of Women.

PRIZES

The John S. Pillsbury Prize

Three prizes of one hundred, fifty, and twenty-five dollars each, have been awarded annually for the best work in the Department of Rhetoric and Public Speaking, as evidenced finally by an oration in public.

The Frank H. Peavey Prize

This prize of \$100 is awarded to the members of the team winning the annual freshman-sophomore debate.

The Ludden Trust Prize

The sum of \$100 is available to furnish prizes for the winners of the first three places in the freshman-sophomore oratorical contest.

The Frank O. Lowden Prize

The annual income from \$3,000 is available to orators competing in the Northern Oratorical League. A prize of one hundred dollars will be given to the orator winning the first place and fifty dollars to the winner of the second place.

The '89 Memorial Prize in History

A prize of \$25 each year is given for the best thesis in history, written from the sources, by a member of the graduating class.

The William Jennings Bryan Prize

A prize of \$50 will be awarded every fourth year to the writer of the best essay upon a topic in Political Science to be announced. The essay, which is limited to ten thousand words, must be handed to one of the instructors in Political Science by May 1. The next award will be made in 1917.

The Alumni Weekly Gold Medal

This medal is awarded annually by the Faculty Committee on Debate and Oratory, to that member of the graduating class who has, in the judgment of the Committee, made the best record in forensics during his college course. The medal is awarded only to a student who has shown himself broad-minded, unselfish, industrious, and willing to work courteously and enthusiastically with others so as to serve the highest interests of debate and oratory in the University.

The Rollin E. Cutts Prize in Surgery

The income from \$500 is awarded in the form of a gold medal to that member of the senior class of the Medical School who presents the best thesis showing original work upon a surgical subject.

The Dr. J. W. Bell Prize in Physical Diagnosis

An annual prize of \$100 is offered in the Medical School, to the student showing the highest proficiency in physical diagnosis. Information as to special conditions connected with this prize may be obtained from the Dean of the Medical School.

The Edwin Ames Jaggard Prize in Legal History

A prize of \$50 is awarded each year to the student in the Law School who submits the best essay on some topic in legal history. Topics are assigned at the beginning of the session. Essays in competition are submitted on or before May 1 each year.

The American Law Book Company Prize

A complete set of the *Cyclopedia of Law and Procedure* is awarded by the Law Faculty to that student in the Third-Year Class who shall have maintained the highest grade of scholarship throughout the three-years' course leading to the LL.B. degree.

The Briggs Prize in Foundry Practice

Seventy-five dollars annually, in two prizes, accompanied by gold medals, will be awarded to sophomores in the College of Engineering for the best essays relative to foundry practice. No prize will be awarded if less than five essays are submitted in competition. Essays should contain about 3,000 words, and must be submitted to the instructor in Rhetoric on or before May 1.

ORGANIZATIONS AND PUBLICATIONS

SELF-GOVERNMENT ORGANIZATIONS

There are at the University more than two hundred student organizations representing religious, ethical, literary, scientific, dramatic, athletic, social, and other activities. These are divided by the Chairman of the University Senate Committee on Student Affairs, into official and unofficial organizations; as it would be impossible to give a description of all of them, only those included under the former designation will be mentioned.

The Minnesota Union was organized in the spring of 1908 "to promote the best interests and welfare of the University of Minnesota, and comradeship among its members, and to erect and maintain a suitable club house for such purposes." All men students of the University shall be active members of the Union and are assessed a membership fee of one dollar a year, payable at the time of the first semester registration. The Legislature has given the Chemistry Building for the use of the Union and \$17,500 for remodeling.

The dining-room is in operation, and the club rooms on the second floor are fitted up for temporary use until funds are available for remodeling them. The dining-room serves three meals a day at practically actual cost. Students are advised to ascertain the Union prices for board before making arrangements elsewhere.

The Women's Self-Government Association is open to all women students of the University. Its purpose is to create a sense of unity and fellowship among the women, to promote and maintain the highest standards of University life and to regulate all matters of student conduct not falling under the jurisdiction of the Faculty. The headquarters of the Association are in Shevlin Hall. Members of the Association will be in readiness during the opening days to meet new students and to serve them in every way possible. The dues are fifty cents a year.

The Home Economics Self-Government Association.—The women in the College of Agriculture, altho nominally members of the Women's Self-Government Association, have an independent organization, the Home Economics Self-Government Association, which is open to all women in the College of Agriculture. The form of organization and the purpose of the Association are similar to those of the Women's Self-Government Association, but adapted to the needs of the students in the College of Agriculture.

The All-University Council is composed of representatives elected from the senior class of each college or school. Its function is mainly that of a student self-government body, representing the student body in matters affecting student interest, controlling their activities to a large extent, and endeavoring to unify the spirit and promote the best possible welfare of the University.

College Councils.—Several of the colleges of the University have their own councils articulating with the All-University Council and having similar functions.

ATHLETIC ORGANIZATIONS

Athletics.—The control of athletics is under the University Senate. It has provided for their supervision by the enactment of the following by-laws:

There shall be two standing committees on physical activities: (a) committee on intramural sports and physical education, (b) committee on intercollegiate athletics.

(a) The Committee on Intramural Sports and Physical Education shall be composed of seven members, five recommended by the President from the Faculty, and the heads of the departments of physical education for men and for women. It shall have supervision of the gymnasium and the athletic grounds of the University, including Northrop Field, except so far as and at such times as these grounds and this field may be used for intercollegiate athletics. It shall have the supervision of intramural sports and physical education for men and women. It shall have no jurisdiction over intercollegiate athletics.

(b) The Committee on Intercollegiate Athletics shall be composed of nine members, five faculty members to be recommended by the President of the University, two alumni members to be recommended by the athletic committee of the Alumni Association, and two student members to be recommended by the student members of the Athletic Board of Control.

This committee shall appoint one of its faculty members to have supervision of tickets. He shall be responsible for all tickets and other sources of income and shall see that the ticket committee of the Athletic Board of Control files with the treasurer a complete ticket report for each game, showing tickets issued, tickets sold, complimentary tickets, and unused tickets, together with a statement of the actual cash received. The member so appointed shall become one of the two faculty members of the Athletic Board of Control and serve as chairman of the ticket committee of said board.

This committee shall also appoint one of its faculty members to have supervision of auditing. He shall have general supervision of all expenditures, and no bills shall be paid or debts incurred unless approved by him. The member so appointed shall become the second faculty member of the Athletic Board of Control, and serve as chairman of the auditing committee of said board.

This Committee on Intercollegiate Athletics shall constitute the eligibility committee, and shall decide upon all questions of students' eligibility to participate in intercollegiate sports. It shall have supervision of Northrop Field and the grandstands and the seats thereon, in so far and at such times as it may be used for intercollegiate athletics. The committee shall satisfy itself of the safety of all stands before allowing them to be used.

The method of administering in detail the business of the Athletic Association shall be subject to the approval of this committee; this committee is given entire control of intercollegiate athletics, subject to the constant revision and ratification of the University Senate.

The five members chosen from the Faculty at large to serve on these two committees, (a) and (b), shall be the same persons.

The University Athletic Association is a voluntary association composed of members of the Faculty and students. Its object is to promote the best interests of athletics at the University. All male professors and

male students are eligible to membership by subscribing to the constitution.

The Board of Control of this organization is the initiative body in all intercollegiate matters at the University. It is composed of the following persons: the officers of the association, five student members chosen, one by the Academic, Education, and Graduate colleges; one by the Engineering, Mines, and Chemistry colleges; one by the Medical, Dental, and Pharmaceutical colleges; one by the Law School; and one by the College of Agriculture; two faculty members, to be chosen by the Senate Committee on Intercollegiate Athletics, and two alumni members, to be chosen by the Board of Directors of the Athletic Alumni Association.

The Women's Athletic Association is organized to promote health, physical efficiency, and athletic accomplishment among the women students. Contests are conducted in gymnastic work, organized games, and various sports for class and individual honors, and emblems are awarded. The Association works in close coöperation with the Department of Physical Education for Women.

Men's Gymnasium.—The gymnasium is in the Armory, and is well equipped with a variety of gymnastic appliances, including a running-track and a swimming-pool. The object of the gymnasium is to provide all of the students of the University opportunity for exercise to build up their general health. It also provides special training to correct physical defects and functional derangements. The gymnasium is in charge of a professional medical director and assistant, and the training is under their direct supervision. A thoro physical examination is required at the beginning of the year of all new matriculants in the University, and all students using department privileges are required to be examined at least once during the year, while students taking the required course in physical education are required to be examined at the beginning and again at the close of the year. A record is made of all examinations. The examination of these records shows a marked improvement in the standard of health of the average student during his college course. Except when in use by the Military Department, the gymnasium is open at all times to students of the University, who are free to use the apparatus and to pursue a course in physical training under the direct supervision of the director and his assistant. In some of the colleges of the University, physical training is required of first-year students.

The Women's Gymnasium.—The department is located in a new gymnasium. This contains two large rooms for class exercise, a smaller room for small groups doing special corrective work, a natatorium, a lecture room to seat 150 students for instruction in hygiene, two large dressing rooms, each containing 80 dressing booths, a shower room containing 60 shower baths, all operated from a central operating room, 14 additional showers in connection with the natatorium, a rest room, a room for the Women's Athletic Association and offices and examination rooms. Work of various types is offered, and academic credit is given for advanced work. The opportunities for physical work are extended by the use of the

tennis courts and the Hippodrome skating rink. The Physical Education Department and the Women's Athletic Association work in close coöperation, and the Women's Athletic Association offers emblems for excellence in the various forms of exercise which are supervised by the Department. It is the purpose of the University to safeguard and promote the health of the students in every reasonable way. A physician (the Director of Health and Physical Education for Women) holds regular office hours for consultation and advice, and investigates cases of illness occurring in the dormitory and the boarding houses. In case medical treatment is necessary the students are referred to private practicing physicians. A resident trained nurse in Sanford Hall affords direct supervision of health there and visits students in boarding houses when necessary. Lectures on the conservation and promotion of health are given to all newly entering students, and various forms of exercise for the promotion of health are offered in the gymnasium. All newly entering students are required to take a physical examination during registration week in the autumn, and each year thereafter students are required to report to the Director of the Department concerning their physical condition. In addition to this the Director holds regular office hours at which any students are welcome who wish to consult her, concerning health matters.

Note.—See courses in Physical Education for Women, bulletin of the College of Science, Literature, and the Arts.

Northrop Field.—This field, comprising about six acres, lies immediately adjoining the Armory. It contains a modern cinder track, tennis courts, baseball diamond, and football gridiron. The grandstands have a seating capacity of about fifteen thousand. A large portion of this field was a gift to the University from the heirs of the late John S. Pillsbury, and the brick wall surrounding it is the gift of his son, Mr. A. F. Pillsbury. It is generally conceded to be one of the finest fields in the West.

Miscellaneous Athletic Organizations.—The University also maintains baseball, basket-ball (men's and women's), football, gymnasium, tennis, track, and wrestling teams.

MILITARY ORGANIZATIONS

The Crack Squad was organized in the season 1905-06. Its purpose is to stimulate an interest in the military affairs of the University, and to afford personal pleasure to its members. It is a prominent student activity for the entertainment of the college community.

LITERARY ORGANIZATIONS

The Minnesota Magazine Board is the board of editors of the *Minnesota Magazine*, elected upon merit by the previous year's board, and is composed of between six and eleven undergraduates, principally upper-class men.

The Minnesota Daily Board and Staff consists of members of the board and staff of the *Minnesota Daily*, the newspaper of the University. The Board of Publishers is made up of representatives elected from the various colleges. The Managing Editor, who is elected by the students of all colleges, names the various members of the editorial and reportorial staff.

The Minnesota Intercollegiate Team represents the University in intercollegiate debate. It is open to undergraduates who have proved by trial their ability to participate in contests of this kind. Its purpose is to promote an interest in debate.

MUSICAL ORGANIZATIONS

The Euterpean Club is a regularly organized body of singers, composed of forty of the women students of the University. The selection of voices is made at the beginning of each school year. The club is under the direction of the head of the Department of Music.

The Minnesota Glee Club is a regularly organized body of singers, composed of thirty-two of the men students of the University. The selection of voices is made at the beginning of each school year. The club is under the direction of the head of the Department of Music.

The University Band is organized as a part of the military system of the University and is composed of about sixty musicians. It is under the efficient leadership of an instructor in music, and furnishes music for military and many other University affairs.

SCIENTIFIC ORGANIZATIONS

The Home Economics Association is an association representing all of the students in the Home Economics course, with membership open to all women in the course. Its purpose is the enlarging of the social and intellectual opportunities of its members, and the furthering of the interests of the women of the College of Agriculture both in the University and throughout the State.

The Forestry Club was organized by the forestry students for the promotion of good fellowship and mutual interests. The specific object of the club is to keep the members up to date on forestry literature and current affairs in the lumber world.

The Engineers' Society meets once in three weeks to listen to addresses by prominent engineers and for the discussion of various engineering topics. *The Minnesota Engineer* is issued by this society. It is devoted to the publication of articles upon engineering subjects. Various national and other engineering and architectural societies meet in St. Paul and Minneapolis. Students of the College of Engineering are generally invited to attend these meetings.

The Agricultural Club welcomes to its membership any male student in the College of Agriculture. Faculty men and others especially inter-

ested in agriculture may be elected to honorary membership. The purpose of the club is to promote scientific agriculture by meetings and the public discussion of agricultural problems, especially those which are of immediate importance and upon which little has been published.

The Student Branch of A. S. M. E. is a branch of the American Society of Mechanical Engineers. It is open to students in the College of Engineering who are taking the course in Mechanical Engineering, and aims to foster interest in the problems relevant to the profession.

The Architectural Society is an organization of upper-class men taking the course in Architecture. Election is based upon scholarship. It arranges an annual exhibition of the work of the department, engages lecturers from outside the University to talk to the men on subjects of interest to architects, and publishes an annual.

CLASS ORGANIZATIONS

The University contains the four usual all-University class organizations. In addition to these, twelve college groups have formed class organizations of their own.

PUBLICATIONS

The Bulletin of the University of Minnesota includes the *Original Series* and the *General Series*. The *Original Series* contains the reports of the President and of the Board of Regents, the Register, the Bulletin of General Information, the annual announcements of the individual colleges of the University, etc. The *General Series* contains announcements of departments of instruction, reports of University officers, etc.

Research Publications of the University of Minnesota were begun in 1912 with the support of a special appropriation by the legislature. They contain the results of original investigations by members of the University. They appear in the form of several series of studies, which offer opportunity for the publication of large monographs and of papers of special importance to the people of this state.

Current Problems Series contains papers of general interest in relation to various lines of work.

School of Mines Experiment Station Series contains reports of results of investigations conducted by the State Mining Experiment Station.

Bulletins of the Minnesota Geological Survey include reports of work done in Minnesota by the Minnesota Survey in coöperation with the United States Geological Survey; also, preliminary reports published independently by the Minnesota Survey in order to prevent loss by delaying the use of information of economic value. The most recent reports are *Surface Formations and Agricultural Conditions of Northwestern Minnesota*, and *Preliminary Report on the Clays and Shales of Minnesota*.

Minnesota Botanical Studies and *Minnesota Plant Studies* are published by the Minnesota Botanical Survey. The botanical series gives the results of investigations carried on by the Survey and in the Department of Botany. The plant studies consist of popular booklets treating of the plants of the state. In addition, the Survey publishes at intervals semi-popular scientific monographs such as *Minnesota Plant Life*, *Minnesota Plant Diseases*, and *Minnesota Freshwater Algae*.

Agricultural Experiment Station Bulletins give the results of experiments carried on at University Farm and at the substations at Duluth, Crookston, Grand Rapids, Morris, and Waseca, as rapidly as such work is completed, or as soon as conclusions of economic value are arrived at. At least four such bulletins are published annually. The *Annual Report of the Agricultural Experiment Station* summarizes the business and work of the Agricultural Experiment Station and substations each year.

Minnesota Farmers' Library and *Special Bulletins* are series of popular instructive bulletins issued by the Agricultural Extension Division designed to inform the farmers of the state as to methods tried out at the Experiment Station and substations, or on demonstration farms, and approved as good practice for Minnesota farmers. *University Farm Press News* is a semi-monthly clip-sheet containing brief instructive articles, designed for reprinting by the newspapers of the state.

The Visitor is a news letter issued monthly by the Division of Agricultural Education of the College of Agriculture. It is sent principally to teachers of agriculture, superintendents of schools and to students of education in the College of Agriculture.

The Minnesota Daily, the University newspaper, is published five times each week during the University year by the Minnesota Daily Association. Its staff is composed entirely of students.

The Minnehaha is an illustrated monthly of satire and humor edited by and circulated among the students of the University.

The Minnesota Magazine is a monthly magazine devoted to the cultivation of literary taste and effort among the students of the University. It is managed by a board of editors chosen from the senior class.

The Minnesota Farm Review is a monthly owned by the alumni of the School of Agriculture, but operated under the direction of a committee representing the faculty, the alumni, and the students of the School and College of Agriculture.

The Junior Annual, called "The Gopher," is a book published annually by the junior class of the University.

The Agrarian is a book published annually by the senior class of the School of Agriculture.

The Minnesota Engineer of the Society of Engineers is issued quarterly. It is devoted to the publication of articles upon engineering subjects.

The Minnesota Alumni Weekly is published each Monday during the University year. It is published in the interests of the alumni and the University.

ADMISSION

GENERAL REQUIREMENTS

Admission to the colleges or schools of the University which accept students direct from the high school is either by certificate or examination, or both. The candidate must offer fifteen units of high-school work so chosen as to include those subjects required by the college or school which he desires to enter. No candidate will be admitted with less than fifteen units. The Registrar may, however, authorize substitutions in the list of required subjects to the extent of one unit in case the candidate did not have an opportunity to take all the required subjects, unless otherwise stated in the requirements of the individual college or school.

Freshman students will be admitted at the opening of the second semester in February in the Colleges of Science, Literature, and the Arts, Agriculture, and Forestry. All other students admitted at this time must present credentials of advanced standing from other colleges showing their qualification to continue the second semester's work.

Under List of Entrance Subjects is shown the minimum and maximum number of units of any one subject that will be accepted by any college of the University. For a statement of the specific units required in any subject or group, see Requirements of Individual Colleges, pages 88-95.

ADMISSION BY EXAMINATION

Entrance examinations are offered at the University during the opening week, September 19 to 26. Candidates entering by this method must pass examinations in fifteen units so chosen as to satisfy the specific requirements of the college to which entrance is desired. (See Requirements of Individual Colleges.) Certificates from the College Entrance Examination Board and from the High School Board are accepted in lieu of examinations in the subjects they represent. Those desiring to take examinations should notify the Registrar in writing not later than September 1. See schedule of examinations, page 8.

ADMISSION BY CERTIFICATE

Graduates of the following courses, provided their preparation satisfies the specific requirements of the college they desire to enter, may be admitted to the freshman class upon presentation of credentials in proper form.

1. Any four-year course of a Minnesota state high school or other accredited school in the state.
2. A four-year course of schools in any other state accredited to the state university of that state.

3. The Advanced Latin and Advanced English courses of the Minnesota state normal schools.

The student who does not hold a diploma from an approved school may gain admission by examination as indicated above.

REGISTRATION

The applicant for admission should request the principal or superintendent to forward to the Registrar of the University a complete transcript of his high-school or preparatory-school record showing the number of weeks and hours a week spent upon each study, with the grades entered as *passed*, *passed with credit*, or *passed with honor*. Credential blanks prepared by the University must be used. These blanks may be secured upon application at the Registrar's office. Upon receipt of the credentials at the University the Registrar will notify the applicant with regard to his admission, and will send directions for registration.

Students who were in attendance the preceding year are required to have their registration completed two weeks before classes begin, and fees paid one week before such time. Blanks for the purpose are mailed from the Registrar's office in ample time. Those not receiving the material by September 1 should notify the Registrar at once.

Students entering the University for the first time must complete registration and pay fees not later than the day preceding the opening of classes.

LIST OF ENTRANCE SUBJECTS

The term *unit* means not less than five recitations of forty minutes each a week for a school year of at least thirty-six weeks. In manual subjects and kindred courses, it means the equivalent of ten recitation periods a week for thirty-six weeks.

GROUP A: ENGLISH

English, four units.*

- (a) Principles of rhetoric
- (b) Practice in written expression in each of the years of the course on an average of not less than one hour a week
- (c) Classics

GROUP B: LANGUAGES

Latin—

Grammar, one unit

German—

Grammar, one unit

* Three units will satisfy the English requirement in the Colleges of Engineering and Dentistry and the Schools of Mines and Chemistry, and, when the applicant presents four units in one foreign language or two units in each of two foreign languages, will suffice for the other colleges.

Caesar, four books, one unit	Literature, one, two, or three units
Cicero, six orations, one unit	
Virgil, six books, one unit	French—
Greek—	Grammar, one unit
Grammar, one unit	Literature, one, two, or three units
Anabasis, four books, one unit	
Spanish—	Scandinavian Languages—
Grammar, one unit	Grammar, one unit
Literature, one, two, or three units	Literature, one, two, or three units

GROUP C: HISTORY AND SOCIAL SCIENCES

History—	Elementary Economics, one-half unit
Ancient, to Charlemagne, one unit	Commercial Geography, one-half or one unit
Modern, from Charlemagne, one unit	History of Commerce, one-half or one unit
English, one-half or one unit	Economic History of England, one-half unit
Senior American, one-half unit	Economic History of the United States, one-half unit
Social Sciences—	
American Government, one-half or one unit	

GROUP D: MATHEMATICS

Elementary Algebra, one unit	Higher Algebra, one-half unit
Plane Geometry, one unit	Solid Geometry, one-half unit
Trigonometry, one-half unit	

GROUP E: NATURAL SCIENCES

Physics, one unit	Physiology, one-half unit
Chemistry, one unit	Astronomy, one-half unit
Botany, one-half or one unit	Geology, one-half unit
Zoology, one-half or one unit	Physiography, one-half unit

GROUP F: VOCATIONAL AND MISCELLANEOUS SUBJECTS

Not to exceed four units may be offered from the following list:

Art, one unit	Public Speaking and Debate, one unit
Business Subjects—	
Business Law, one-half unit	Advanced Bookkeeping, one unit
Business Arithmetic, one-half unit	Stenography and Typewriting, two units
Elementary Bookkeeping, one unit	
Manual Subjects—	
Freehand Drawing, two units	Shop Work, two units

Mechanical Drawing, two units
 Domestic Art and Sciences, four units Modeling and Wood Carving, one unit

Normal Training Subjects—

One to three units from schools giving normal courses approved by the State High School Board, provided the applicant has had one year of subsequent teaching experience.

Agriculture—

One to four units from schools receiving special state aid for Agriculture and also from other schools in which such course in Agriculture is approved by the State High School Board, as fast as the said schools are prepared to offer work in Agriculture.

REQUIREMENTS OF THE INDIVIDUAL COLLEGES

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

1. *Regular Bachelor of Arts Course*

(1) English, four units; or three units of English accompanied by four units of one foreign language, or two units in each of two foreign languages.

(2) Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.

(3) Enough additional work to make in all fifteen units of which not more than four may be in Group F.

2. *Academic-Medical Course*

Same as 1 above, except that two units of Latin are required.

3. *Academic-Law Course*

Same as 1 above.

4. *Arts and Music Course*

Same as 1 above, also certificate from the Department of Music showing that the applicant is qualified to pursue the courses offered.

5. *Arts and Chemistry Course, five years*

Same as 1 above.

6. *Graduates of Minnesota State Normal Schools*

Graduates of the Advanced Graduate course of a Minnesota state normal school are admitted with advanced standing equivalent to one year's credit, and receive the degree of Bachelor of Arts upon completing in this college ninety credits provided they comply with the usual requirements for graduation. Such students will not be permitted to elect the following courses for credit: Education 1, 2, 3, or 105, Rhetoric 1-2, or Psychology 1-2 or 5.

Individual graduates of the Advanced Latin course (five years) or of the Advanced English course (five years) of a Minnesota state normal school, who, on the basis of maturity and ability, present from the president of the normal school certificates of special fitness, will be admitted with advanced standing under the same regulations and proviso.

This does not include those students of any of the above classes who substitute for the more advanced work of certain courses specialized work in preparation for elementary teaching.

7. *Unclassed Students*

Unclassed students are: (1) persons of mature years engaged in teaching or other occupation, but registered in this college without having satisfied the entrance requirements in full; (2) all others who have been permitted to register for less than eleven hours of work. Only by permission of the Administrative Board and upon the presentation of satisfactory reasons for not taking the regular course will an applicant be admitted as an unclassified student. Unless he takes the same examinations or presents the same credentials as are required of those who enter the freshman class he can be admitted only upon vote of the Faculty. A new application must be made each semester.

8. *Special Music Students*

Same as 4 above.

COLLEGE OF ENGINEERING AND ARCHITECTURE

Including Courses in Civil, Electrical, and Mechanical Engineering, and Architecture

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit; Higher Algebra, one-half unit, and Solid Geometry, one-half unit.
3. Chemistry, one unit.
4. Enough additional work to make in all fifteen units of which not more than three may be in Group F.

One unit may be accepted in lieu of one unit from the above required subjects; but if this be offered as a substitute for Mathematics or Chemistry the resulting deficiency must be removed as hereinafter provided.

Should the deficiency occur in Solid Geometry this must be made up prior to the beginning of the second semester; otherwise deficiencies must be removed before entering upon any work of the sophomore year.

Students looking forward to the study of architecture will find it greatly to their advantage to take as much freehand drawing as possible in high school, to elect French as their language, and to cover the field of general history as far as possible.

COLLEGES OF AGRICULTURE AND FORESTRY

Including Courses in Agriculture, Home Economics, and Forestry

Students entering these colleges should submit their credentials to the enrollment committee, University Farm, St. Paul.

1. English, four units; or three units accompanied by four units of one foreign language, or two units in each of two foreign languages.

2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.

3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

Prospective students in Agriculture and Forestry are urged to present Higher Algebra, Chemistry, and Physics for entrance. This will permit the selection of vocational electives during the college course in place of Mathematics, Physics, and a portion of the Chemistry otherwise required.

Prospective students in Home Economics are urged to elect Biology, Physiology, Chemistry, and Physics, as a part of their high-school course.

For students in Agriculture farm experience is required for admission under the following regulations:

A working knowledge of the fundamental operations of the farm, such as harnessing horses, milking cows by hand, plowing, planting, and harvesting the common crops, will be required of those entering the Agricultural courses.

It is provided, however, that students transferring from other colleges or universities to the junior year of any of the special science courses will be exempt from this requirement.

This is not to be understood as superseding the regulation which provides for at least six months' of approved farm experience before graduation.

Schools of Agriculture

These schools are not of collegiate grade. For further information, see special bulletins. Graduates of these schools may be admitted to the College of Agriculture on the certification of the completion of the following additional work in an accredited high school:

1. English, two units.

2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.

3. Electives, four units, none of which may be from Group F.

LAW SCHOOL

Regular Students

Students desiring to enter the Law School must first complete two full years (not less than fifty-eight credits) of collegiate work in science, literature, and arts at this or some other university or college of equal rank. See admission to the College of Science, Literature, and the Arts, page 88. Such candidates may be admitted upon presenting their credentials to the Registrar.

A special pre-legal course is offered by the College of Science, Literature, and the Arts covering those subjects which are particularly desirable as preliminary to the study of law.

The Law Faculty recommends that prospective law students devote the major part of their time while in high school to the study of the following subjects: English, Latin, History, Mathematics, French or German, and Science.

Special Students

Applicants who are twenty-one years of age and have preliminary education sufficient at least to entitle them to admission to the College of Science, Literature, and the Arts, may, upon furnishing satisfactory evidence of their ability to pursue the law course with profit to themselves and without hindrance to the regular students, in the discretion of the Faculty, be admitted to the Law School as special students. Such special students are not candidates for a degree.

Special students entering with fifty-two academic credits may become regular students by complying with the requirements for admission before the beginning of their second year in the Law School, *provided* they have passed all the subjects required of the first-year law class.

MEDICAL SCHOOL

Registration of students entering the Medical School is limited to eighty. Applicants will be selected by tests of preliminary training, general information, and personal fitness.

Prospective Medical students must complete two years (not less than sixty credits) of collegiate work in science, literature, and the arts at this or some other university or college of equal rank. The high-school preparation of such students must satisfy the requirements for admission to the College of Science, Literature, and the Arts and should include two units of Latin, two of German, and one of Chemistry. The sixty college credits required must include six credits each in Rhetoric, General Chemistry,* Qualitative Analysis,* Zoology, Social Sciences; eight credits in Physics, and enough German to enable the student to read scientific publications in that language with facility. This will usually require two years of collegiate work in addition to high-school credits in this language.

The degree of Doctor of Medicine is conferred only upon those who have received the Bachelor's degree in Arts or Science from this or some other recognized university or college. Combined courses are offered by the College of Science, Literature, and the Arts and by the Medical School, which lead to either of the Bachelor's degrees and, subsequently, to the degree in medicine.

Those who at the time of entrance have a Bachelor's degree from an approved institution other than the University of Minnesota may be

* Those who have had good training in preparatory Chemistry will take a combined course of six credits in General Chemistry and Qualitative Analysis, and six credits of Organic Chemistry. In 1918 and thereafter Organic Chemistry will be a premedical requirement.

allowed reasonable deviation from the exact credits mentioned above. But thoro college courses in Physics, Chemistry, and Biology and a reading knowledge of modern languages (particularly German) are indispensable as preparation for medical study.

Special Students

Physicians and others who would profit by the work may be admitted as special students. Such students are not candidates for the degree.

School of Embalming

One year of high-school work or its equivalent in other satisfactory preparatory schools is a prerequisite for admission. Applicants must submit credentials covering this work and satisfactory evidence of good character. The course begins January 3. Examination is held at the close of the course and, successfully passed, entitles the student to a certificate.

School for Nurses

Graduation from an approved high school or other preparatory school on the accredited list is a prerequisite for admission. Preference, however, will be given to women of superior preliminary training. Applicants must not be less than twenty, nor more than thirty-five, years of age. They must submit to the committee satisfactory evidence of physical and mental fitness and of good character and will undergo a general physical examination by the school physician.

Upon receipt of credentials at the Registrar's office, applicants will be notified with regard to the details of registration.

All applicants matriculated will be required to take the preliminary course of instruction covering a period of six months, and must pass the examinations at its close. This period will be one, not only of preliminary training, but of probation. The Faculty reserves the right to pass upon the general fitness of the student to enter the hospital service at the close of that time.

COLLEGE OF DENTISTRY

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.
3. Enough additional work to make in all fifteen units of which not more than four may be in Group F.

Preparation of at least one year in Chemistry, and two or more years in Manual Training is recommended.

On account of the limited capacity of the College of Dentistry not

more than ninety freshmen can be admitted. Applications for admission should be in the Registrar's office not later than July 25.

Candidates will be selected according to quantity and quality of preparation, and when necessary their fitness shall be determined by competitive examination and conference with the Student Work Committee.

All other qualifications being equal, residents of Minnesota will be given prior consideration for vacancies existing at the date of their application.

SCHOOL OF MINES

It is recommended that students who come poorly prepared in mathematics enter the five-year courses.

Five-Year Courses

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; and Plane Geometry, one unit.
3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

Four-Year Courses

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit; Higher Algebra, one-half unit; Solid Geometry, one-half unit.
3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

No substitution for the mathematics requirements can be made in this course.

It is recommended that students who enter the four-year courses review their mathematics, especially Higher Algebra and Solid Geometry. Those who are unable to carry satisfactorily freshman mathematics will be compelled to drop back into the five-year course.

COLLEGE OF PHARMACY

Graduation from a four-year high-school course or equivalent training is required for admission to the regular courses in pharmacy. Applicants are advised to secure preparation in two units of Latin and one unit each of Physics, Chemistry, Botany, and Physiology.

SCHOOL OF ANALYTICAL AND APPLIED CHEMISTRY

Arts and Chemistry Course (five years)

1. English, three units.

2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.

3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

Analytical Course (four years) and *Applied Course* (five years)

The requirements are the same as in Arts and Chemistry above, except that in addition to the mathematics indicated one-half unit of Higher Algebra must be presented.

COLLEGE OF EDUCATION

Applicants for admission to this college must present credentials showing:

1. The completion of a regular four-year high-school course.

2. The completion of two full years of collegiate work (not less than sixty credits) in science, literature, and arts at this or some other college or university of equal rank.

Graduation from Advanced Graduate normal courses (two years beyond the high school) is considered equivalent to (1) and (2) above.

Graduates of a five-year normal course, if individually recommended by the normal-school president, are allowed forty-two credits and are admitted to the College as unclassified students pending the completion of eighteen additional credits.

ADMISSION AS UNCLASSIFIED STUDENTS

Only by permission of the proper officers and upon the presentation of satisfactory reasons for not taking the regular course will an applicant be admitted as an unclassified student. He must take the same examinations or present the same credentials as are required of those who enter as regular students. Exceptions can be made only upon vote of the appropriate faculty. A new application must be made each semester to the committee in charge. No unclassified student shall be admitted to the School of Mines.

ADMISSION TO ADVANCED STANDING

1. *From Other Colleges*

This University accepts credits from all reputable colleges and universities toward advanced standing. Such credits are accepted as far as they represent courses equivalent to the work done in this institution. In bringing or sending records from other institutions, the certificate must be upon the official blank of the institution granting the certificate and should show:

- (a) The subject studied; catalog course number and descriptive title.
- (b) The number of weeks and hours a week spent upon each subject.
- (c) The value of the course expressed in semester credits.

(d) The result. The exact grades should be stated, accompanied by an explanation of the marking system employed.

Upon receipt of the student's credentials the Registrar will notify the applicant concerning his classification and will send directions for registration.

All statements concerning advanced standing and classification are provisional, subject to the applicants' completing one year of work satisfactorily at the University.

Candidates wishing to gain advanced standing by examination are allowed examinations without charge, provided such be taken within six weeks after matriculation.

2. *From Minnesota Normal Schools*

Graduates of the Advanced Graduate course of a Minnesota State Normal School are admitted to the College of Science, Literature, and the Arts with one year (30 credits) of advanced standing. Graduates of such advanced courses are admitted to the College of Education with an allowance of sixty credits toward graduation.

Individual graduates of the Advanced Latin course (five-year) or of the Advanced English course (five-year) of a Minnesota State Normal School who, on the basis of maturity and ability, present certificates of special fitness from the President of the Normal School, will be admitted with thirty credits of advanced standing. Graduates of such courses are admitted to the College of Education with an allowance of forty-two credits toward graduation.

3. *Miscellaneous*

Credit in Shop Work and Drawing will be given in the College of Engineering for work in manual training, or for practical experience, provided the applicant gives evidence of proficiency in such work, and is qualified to pursue advanced work. The student must register for the regular work and at the same time make application to the department concerned for advanced credit.

LIST OF ACCREDITED SCHOOLS

Graduates of the following Minnesota state high schools will be admitted to the University of Minnesota without conditions, provided their credentials satisfy the specific requirements of the college to which entrance is desired.

Ada	Amboy	Aurora
Adrian	Annandale	Austin
Aitkin	Anoka	Bagley
Akeley	Appleton	Barnesville
Albert Lea	Argyle	Belle Plaine
Alden	Arlington	Bemidji
Alexandria	Atwater	Benson

Bird Island	Fergus Falls	Litchfield
Biwabik	Fertile	Little Falls
Blackduck	Fosston	Long Prairie
Blooming Prairie	Frazee	Luverne
Blue Earth	Fulda	Lyle
Brainerd	Gaylord	McIntosh
Breckenridge	Gilbert	Mabel
Brown Valley	Glencoe	Madelia
Buffalo	Glenwood	Madison
Buhl	Graceville	Mahnomen
Caledonia	Grand Meadow	Mankato
Cambridge	Grand Rapids	Mantorville
Canby	Granite Falls	Maple Lake
Cannon Falls	Hallock	Mapleton
Cass Lake	Halstad	Marshall
Chaska	Harmony	Melrose
Chatfield	Hastings	Milaca
Chisholm	Hawley	Minneapolis
Clarkfield	Hector	Central
Cloquet	Henderson	East
Cokato	Herman	North
Coleraine	Heron Lake	South
Greenway	Hibbing	West
Olcott	Hinckley	Minneota
Cottonwood	Hopkins	Montevideo
Crookston	Houston	Montgomery
Dassel	Howard Lake	Monticello
Dawson	Hutchinson	Moorhead
Deer River	International Falls	Mora
Delano	Ivanhoe	Morris
Detroit	Jackson	Morton
Dodge Center	Janesville	Mountain Lake
Duluth	Jordan	New Prague
Central	Kasota	New Richland
Denfeld	Kasson	New Ulm
Eagle Bend	Kenyon	Northfield
East Grand Forks	Kerkhoven	North St. Paul
Elbow Lake	Lake Benton	Northwood—Young
Elk River	Lake City	America
Elmore	Lake Crystal	Olivia
Ely	Lakefield	Ortonville
Eveleth	Lake Park	Osakis
Excelsior	Lamberton	Owatonna
Fairfax	Lanesboro	Park Rapids
Fairmont	Le Roy	Paynesville
Faribault	Le Sueur	Pelican Rapids
Farmington	Le Sueur Center	Perham

Pine City	John A. Johnson	Tyler
Pine Island	Mechanic Arts	Villard
Pine River	St. Paul Normal	Virginia
Pipestone	St. Peter	Wabasha
Plainview	Sandstone	Wadena
Preston	Sauk Center	Walker
Princeton	Sauk Rapids	Warren
Red Lake Falls	Shakopee	Waseca
Red Wing	Sherburn	Waterville
Redwood Falls	Slayton	Wayzata
Renville	Sleepy Eye	Welcome
Rochester	South St. Paul	Wells
Royalton	Springfield	West Concord
Rush City	Spring Grove	Wheaton
Rushford	Spring Valley	White Bear
St. Charles	Staples	Willmar
St. Cloud	Stephen	Windom
St. James	Stewartville	Winnebago
St. Louis Park	Stillwater	Winona
St. Paul	Thief River Falls	Winthrop
Central	Tracy	Worthington
Humboldt	Two Harbors	Zumbrota

Graduates of the following private schools will be admitted to the freshman class under the regulations governing admissions of high-school graduates :

Albert Lea	Minnesota College
Albert Lea College, Preparatory Department	Northrop Collegiate School
Collegeville	St. Margaret's Academy
St. John's College	Stanley Hall
Duluth	Montevideo
Cathedral High School for boys	Windom Institute
Cathedral High School for Girls	Moorhead
Villa Sancta Scholastica	Concordia College
Faribault	Owatonna
Bethlehem Academy	Pillsbury Academy
St. Mary's Hall	Red Wing
Shattuck Military Academy	Academy of the Red Wing Seminary
Fergus Falls	Lutheran Ladies' Seminary
Park Region Luther College	St. Joseph
Frontenac	Convent of St. Benedict
Villa Maria	St. Paul
Minneapolis	Bethel Academy
Blake School for Boys	St. Joseph Academy
	St. Paul Academy
	St. Thomas College

The Backus Schools for Girls
 The College of St. Catherine
 The Loomis School
 Visitation Convent

St. Paul Park
 St. Paul's College
 Winona
 St. Claire Seminary

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The following statements indicate in a general way the preparation which the University expects in the various subjects accepted for admission. The number of units in parentheses following each subject indicates the maximum credit accepted by any one college of the University and does not mean that all colleges will accept the maximum stated. See pages 88 to 95 for statements of the requirements of the individual colleges.

GROUP A. ENGLISH

Three or four units*

In order to secure a definite plan of study and unity of method on the part of preparatory schools, the entrance requirement in English is outlined below somewhat in detail. To satisfy this requirement a course of not less than four hours a week must be pursued during the time specified above. The headings under which instruction will naturally fall are:

- I. The Principles of Rhetoric.
- II. Practice in Written Expression.
- III. English Classics.

I

The work in the principles of rhetoric should include the principles and technical terms of ordinary texts upon the subject, whether acquired by the direct study of such text or mainly by the study of selected English masterpieces. It should not be forgotten that this is not an end in itself, but simply a means of teaching the student the correct use of English.

II

Not less than an hour a week in each of the four years of the course should be devoted to work in composition, which should be criticised both orally and in writing by the teacher. Such subjects should be chosen as will best make this written work an expression of the lives and interests of the students, who should be taught to observe accurately, think logically, and write correctly and forcefully.

III

The preparation in English Literature should consist in the study of a limited number of English classics and in the reading of a larger number. The following lists of books, headed respectively *Reading* and *Study*, are quoted from the report of the National Conference on Uniform Entrance Requirements in English. They will be found suggestive to those preparing students for the University. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary application, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. READING.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but

* See note on page 86.

his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units are to be selected, two from each group:

Group 1. *The Old Testament*, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

Group 2. *Shakespeare*.—*Midsummer Night's Dream*; *Merchant of Venice*; *As You Like It*; *Twelfth Night*; *The Tempest*; *Romeo and Juliet*; *King John*; *Richard II*; *Richard III*; *Henry V*; *Coriolanus*; *Julius Caesar*;^{*} *Macbeth*;^{*} *Hamlet*.^{*}

Group 3. *Prose Fiction*.—Two to be selected.—Malory's *Morte d'Arthur* (about 100 pages); Bunyan's *Pilgrim's Progress*, Part I; Swift's *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag); De Foe's *Robinson Crusoe*, Part I; Goldsmith's *Picar of Wakefield*; Frances Burney's *Evelina*; Scott's Novels (any one); Jane Austen's Novels (any one); Maria Edgeworth's *Castle Rackrent*, or *The Absentee*; Dickens' Novels (any one); Thackeray's Novels (any one); George Eliot's Novels (any one); Mrs. Gaskell's *Cranford*; Kingsley's *Westward Hol or Hereward, the Wake*; Reade's *The Cloister and the Hearth*; Blackmore's *Lorna Doone*; Hughes' *Tom Brown's Schooldays*; Stevenson's *Treasure Island*, or *Kidnapped*, or *Master of Ballantrae*; Cooper's Novels (any one); Poe's *Selected Tales*; Hawthorne's *The House of Seven Gables*, or *Twice-Told Tales*, or *Mosses from an Old Manse*; a collection of *Short Stories* by various standard writers.

Group 4. *Essays, Biography, etc.*—Two to be selected.—Addison and Steele's *The Sir Roger de Coverley Papers*, or Selections from the *Tatler* and *Spectator* (about 200 pages); Boswell's Selections from the *Life of Johnson* (about 200 pages); Franklin's *Autobiography*; Irving's *Sketch Book* (about 200 pages), or *Life of Goldsmith*; Southey's *Life of Nelson*; Lamb's *Essays of Elia* (about 100 pages); Lockhart's *Life of Scott* (about 200 pages); Thackeray's Lectures on Swift, Addison and Steele in the *English Humorists*; Macaulay's *Lord Clive*, *Warren Hastings*, *Milton*, *Addison*, *Goldsmith*, *Frederick the Great*, *Madame d'Arblay* (any one); Trevelyan's *Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies*, or *Selections* (about 150 pages); Dana's *Two Years before the Mast*; Selections from Lincoln, including at least the two *Inaugurals*, the *Speeches in Independence Hall* and at *Gettysburg*, the *Last Public Address*, and the *Letter to Horace Greeley*, together with a brief memoir or estimate; Parkman's *The Oregon Trail*; Thoreau's *Walden*, Lowell's *Selected Essays* (about 150 pages); Holmes's *The Autocrat at the Breakfast Table*; Stevenson's *An Inland Voyage*, and *Travels with a Donkey*; Huxley's *Autobiography*, and selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; a collection of essays by Bacon, Lamb, De Quincey, Hazlitt, Emerson, and later writers; a collection of *Letters* by various standard writers.

Group 5. *Poetry*.—Two to be selected.—Palgrave's *Golden Treasury (First Series)*, Books II and III with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury (First Series)* Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under b); Goldsmith's *The Traveller*, and *The Deserted Village*; Pope's *The Rape of the Lock*; a collection of English and Scottish Ballads, as, for example, some *Robin Hood* ballads; *The Battle of Otterburn*, *King Estmere*, *Young Beichan*, *Bewick and Grahame*, *Sir Patrick Spens*, and a selection from later ballads; Coleridge's *The Ancient Mariner*, *Christabel*, and *Kubla Khan*; Byron's *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon*; Scott's *The Lady of the Lake*, or *Marmion*; Macaulay's *The Lays of Ancient Rome*, *The*

* If not chosen for study under (b).

Battle of Naseby, The Armada, Ivory; Tennyson's The Princess, or Gareth and Lynette; Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus; Arnold's Sohrab and Rustum, and The Forsaken Merman; selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

B. STUDY.—This part of the requirement is designed to insure a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

(1) Shakespeare's *Julius Caesar, Macbeth, Hamlet.*

(2) Milton's *L'Allegro, Il Penseroso*, and either *Comus* or *Lycidas*; Tennyson's *The Coming of Arthur, The Holy Grail, and The Passing of Arthur*; the selections from Wordsworth, Shelley, and Keats, in Book IV of Palgrave's *Golden Treasury (First Series)*.

(3) Burke's *Speech on Conciliation with America*; Macaulay's *Two Speeches on Copyright* and Lincoln's *Speech at Cooper Union*; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*.

(4) Carlyle's *Essay on Burns*, with a selection from *Burns' Poems*; Macaulay's *Life of Johnson*; Emerson's *Essays on Manners*.

GROUP B. LANGUAGES

Latin

In place of the work specified below the University also accepts the work recommended in the report of the Cleveland Commission on College Entrance Requirements in Latin.

Latin Grammar (one unit).—This will include the subjects of orthography, etymology, and syntax. Proficiency is particularly desired in the following subjects: the analysis of the verb forms, the rules of syntax, and the principal parts of the irregular verbs.

Caesar (one unit).—First four books or selections from the seven books equivalent to four; or three books, with thirty pages of Cornelius Nepos, or two books with sixty pages of Cornelius Nepos. The student is expected to be familiar with the life of Caesar and an account of his wars.

Cicero (one unit).—Any six orations from the following list: *Against Catiline, Poet Archias, Ligarius, Marcellus, Manilian Law* (to count as two orations), the fourteenth *Philippic*. The student should also be familiar with the life of Cicero.

Virgil (one unit).—Six books of the *Aeneid*, or five of the *Aeneid* and one of the *Metamorphoses* of Ovid, or the *Eclogues*. The student should be familiar with the life of Virgil and an account of his times and writings. A correct rhythmical reading of the text is to be encouraged.

Greek

Greek Grammar (one unit).

Xenophon's Anabasis, four books (one unit).

German (four units)

In the first year the student should acquire:

1. Correctness and ease of pronunciation; the ability to read from the text with the proper sentence accent.

2. A vocabulary of a thousand words in everyday use; facility in expressing his thoughts in simple sentences. As a means to this, at least 150 pages of narrative prose, and some poetry, should be read. Using the subject matter of the daily reading lesson as a basis, the teacher should, through rapid question and answer, develop the student's power of self expression in the foreign idiom.

3. The essentials of German grammar, to be taught inductively in conjunction with the oral development of the reading lesson indicated in (2). Toward the last of the year the essentials should be reviewed with accuracy and in detail, with the help of sentences and free composition. Some free composition, or written answers to questions, should be required frequently after the first weeks.

In the second year students should:

1. Read 200-300 pages of prose and poetry. The better students should be encouraged to private reading of simple texts. The use of classics in the second year is discouraged. A very simple text should be chosen for the first weeks to make the transition from the beginning course less abrupt. Other texts should follow of which the language is sufficiently modern to lend itself well to oral treatment of the subject matter in class. This course should continue the effort of the first year to develop, by means of question and answer in German, the accurate and immediate knowledge of the language through direct imitation and spontaneous use of the idiom of the text. This work may be supported by occasional translation from English into German, based, preferably, upon the text read.

2. Translate selected passages of the text into idiomatic English. To translate sentences which the student already understands is a waste of time. Usually a paraphrase, or a brief explanation in German, of a difficult passage is more satisfactory than translation.

3. Review topically the essentials of German grammar, including the chief rules of orthography and syntax.

One or two additional years of work in literature will be accepted. Students presenting four years of high-school German are admitted to advanced standing.

French (four units)

Work of the first year should comprise:

1. Careful drill in pronunciation.
2. Rudiments of grammar, including inflection of the more common irregular verbs.
3. Abundant practice in turning simple English into French.
4. Reading of 100 to 175 pages of simple French, including ample practice in sight translation.
5. Writing of French from dictation.

Work of the second year should comprise:

1. Complete and thoro drill in grammar.
2. Drill in connected prose composition.
3. Reading of 250 to 400 pages of modern prose and poetry.
4. Continued practice in writing French from dictation.

Work of the third and fourth years: If a third and fourth year are offered, they should consist of (1) advanced connected prose composition, (2) reading of more difficult French with emphasis on the literary side, and (3) oral practice.

Spanish (four units)

Courses in Spanish should follow the same plan as for French.

Scandinavian Languages

Norwegian or Swedish (four units).—The student should acquire the principles

of grammar, ability to read and translate ordinary prose and easy poetry, also to translate from English, and a fair acquaintance with the history of the Scandinavian countries. Two additional years' work in literature will be accepted.

GROUP C. HISTORY AND SOCIAL SCIENCES

History

Ancient History (one unit).—This study should begin with a brief survey of the oriental peoples who have most influenced European development, and should be carried down to the establishment of Charlemagne's empire.

Modern History (one unit).—From Charlemagne to the present. It is desirable to give at least one third of the year to the period from 1789.

English History (one-half or one unit).—The Saxon period should be passed over rapidly. In the remainder of the work, besides the narrative, constitutional points should receive attention, and easily accessible documents should receive careful study.

Senior American History (one-half unit).—No attempt should be made to cover the whole field in this time. In the study of any period in the nineteenth century special attention should be paid to economic development and the westward movement.

Social Sciences

American Government (one-half or one unit).—This should be a study of our government, national, state, and local, as it is organized and actually operated to-day. The instruction should aim to impart information essential to intelligent, active citizenship, such as the division of the government into departments, their organization and function; the methods of nominating, electing, and appointing men to office; of framing and amending constitutions, city charters, and statutes; of drawing grand and petit juries and the duty of the citizen to serve on them; the distinction between common law, state law, and constitutional law, between equity, civil, and criminal cases.

Elementary Economics (one-half unit).—In the study of Economics it is desirable to avoid two extremes, abstract theory on the one hand, and controversial questions, such as the tariff, trusts, and trade unions, on the other hand. Emphasis should be placed on historical and descriptive matter, especially relating to the economic development of England and the United States. Some good elementary text-book should be mastered and a reasonable amount of collateral reading required.

History of Commerce (one-half or one unit).—This forms the natural introduction to the study of present economic conditions. It would be well to give special attention to the economic history of England and the United States. The work should be based on a text-book, supplemented by carefully directed map work and assigned readings. This should be preceded by a year course of medieval and modern European history.

Commercial Geography (one-half or one unit).—This describes and seeks to explain the commerce of to-day. The work should cover the ways in which commerce depends on nature and on man, the development of means of transportation and communication, and a detailed study of the several commercial regions of the world with reference to resources, industries, transportation facilities, and commerce. It should be based on a text-book supplemented by map work and assigned readings.

GROUP D. MATHEMATICS

Elementary Algebra (one unit).—Positive and negative numbers; addition; subtraction; multiplication; division; factoring; highest common divisor and lowest common multiple by factoring; fractions; equations of the first degree in one, two, and three unknowns, with numerous problems involving such equations; involution (omitting the binomial theorem); evolution (omitting cube root); elementary manipula-

tion of surds; irrational equations that lead to equations of the first degree; pure quadratic equations; affected quadratic equations by the method of completing the square and by factoring, with problems involving such equations.

Higher Algebra (one-half unit).—A review of elementary algebra with more difficult problems and with some demonstrational work; the factor theorem; the binomial theorem for positive integral exponents; cube root; fractional, negative, and zero exponents; surds, radicals, and imaginaries; the solution of affected quadratic equations by formula; equations in the quadratic form; simultaneous quadratic equations; arithmetic and geometric progressions. The course in higher algebra should be taken by students in their third or fourth high-school year.

Plane Geometry (one unit).—Any of the standard texts on this subject will furnish the necessary preparation. Isoperimetry, symmetry, and maxima and minima of figures are not required. The exercises requiring solutions and demonstrations should not be omitted.

Solid Geometry (one-half unit).—Any of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should not be omitted.

GROUP E. NATURAL SCIENCES

Physics (one unit).—It is suggested that the year's work be confined to four of the seven subjects mentioned below.

(1) Mechanics of solids, (2) liquids and gases, (3) sound, (4) heat, (5) light, (6) and (7) electricity and magnetism (to count as two subjects, but not to be divided).

Chemistry (one unit).—The full year's work should include a study of both the non-metals and metals with laboratory experiments illustrating the common chemical laws and the commoner chemical reactions.

Botany (one-half or one unit).—The course in Botany should extend through the school year whenever it is at all possible, even if as much time can not be given to it each week as when it occupies a single semester. The course should follow as closely as possible the nature and work of plants during the changing seasons of the year. The major portion of the work should be with living plants, naming the common plants of the neighborhood, both cultivated and native, and studying plant parts from the seed to maturity. A detailed outline of such courses will be furnished upon request.

Zoology (one-half or one unit).—Animals should be studied as living units in their relation to one another and their environments. This study should include developmental stages as well as the adult stage. The aim of the teacher should be to foster a love for animate nature and to develop accuracy in observation and description.

Astronomy (one-half unit).—An elementary course in general astronomy as presented in any good modern text-book will satisfy this requirement.

Geology (one-half unit).—These subdivisions should receive special attention: physiographic geology, the building of the land and the evolution of its existing contours; geodynamics, the modifying of the earth by atmosphere, water, terrestrial heat, plants, and animals, and a brief survey of historical geology.

Physiography (one-half unit).—The following topics should be emphasized: meteorology, the leading facts relating to the atmosphere and its phenomena, including some acquaintance with the work of the United States weather bureau; land sculpture, as it treats of the origin, development, and degradation of land forms; and the influence of these processes on the physical environment of man.

GROUP F. VOCATIONAL AND MISCELLANEOUS SUBJECTS

Not more than four units are allowed in the following vocational subjects, including business subjects, manual subjects, domestic art and science, and agriculture.

Business Subjects

Business Law (one-half unit).—The object of this study is not to make "every man his own lawyer," but rather to enable him to keep out of legal complications. Text-book supplemented by study of a few typical cases, and practice in drawing up ordinary legal papers, such as bills, notes, checks, etc.

Business Arithmetic (one-half unit).—The object is, first of all, absolute accuracy and, secondly, speed in ordinary business complications. The topics to be emphasized are fundamental operations, common fractions having as denominator 2, 3, 4, 6, and 8, a few common weights and measures, percentage and its applications, and useful short methods, especially interest and other calculation tables. The work should be based on a text-book, supplemented by numerous live exercises from current sources.

Elementary Bookkeeping (one unit).—A text-book should be employed with exercises so arranged that no two pupils will do exactly the same work, and no credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed. It is suggested that double periods be provided, and all work be done in class under the eye of the instructor. The set used should include the journal, cash book, sales book, ledger, check book, bank pass book, and trial balance book.

Advanced Bookkeeping and Business Practice (one unit).—Thoro drill on standard business forms, such as bills, receipts, checks, notes, etc., also on the use and meaning of business symbols and abbreviations. The student should become acquainted with the bill book and invoice book, and loose leaf and voucher systems of bookkeeping. Each student should carry on a business of his own, first as an individual, then as a partnership, and finally as a corporation. Credit on this course should mean that the student lacks only age and actual business experience to become a competent bookkeeper.

Stenography and Typewriting (two units).—This work is expected to occupy not less than two periods daily for two years. No credit should be given for either shorthand or typewriting if taken alone. Nothing but the touch method should be used in typewriting. The essentials are, first, accuracy and speed in taking dictation and transcribing notes; secondly, correct spelling, capitalization, punctuation, and paragraphing. The minimum speed at the end of the first year should be 75 words a minute in dictation and 25 words a minute on the machine; and at the end of the second year, 100 words a minute in dictation, and 35 words a minute in transcribing notes. Thoro training should also be given in care of the machine, in modern methods of manifolding, and in filing papers.

Manual Subjects

Owing to the fact that drawing and shop work do not require outside preparation they should not be credited by the schools on the same basis as the academic subjects. Therefore half credits are allowed; that is, one full credit for two years of work one period daily, or for one year of work two periods daily, in each subject.

Freehand Drawing (two units).

Mechanical Drawing (two units).

Joinery (one-half unit).

Wood Turning and Cabinet Making (one-half unit).

Pattern Making and Forge Shop (one-half unit).

Machine Shop, including Chipping, Filing, and Work on the Iron Lathe (one-half unit).

Drill Press and Iron Planer (one-half unit).

Clay Modeling (one-half unit).

Wood Carving (one-half unit).

Home Economics

Domestic Art (two units).

Domestic Science (two units).

Agriculture

Agriculture is accepted for from one to four units from schools receiving special state aid for Agriculture and also from other schools in which such course in Agriculture is approved by the State High School Board, as fast as the said schools are prepared to offer work in Agriculture.

NORMAL TRAINING SUBJECTS

One to three units are accepted from schools giving normal courses approved by the State High School Board, providing the applicant has had one year of subsequent teaching experience.

DEGREES

The candidate for a degree must complete the requirements for graduation in his course. Any person may undergo, at suitable times, an examination in any subject, and if such person pass in all the studies and exercises of the course, he is entitled to the appropriate degree; provided, however, that at least one full year (the one immediately preceding the granting of the degree) must be spent at the University, before such degree shall be granted, and provided that examination, in every case, be held before a committee of the Faculty appointed for that purpose.

For detailed information concerning requirements, see pages 85 to 95, also the bulletin of the appropriate college or school.

The degrees Bachelor of Arts, Bachelor of Arts in Music, Bachelor of Science, Bachelor of Science in Engineering, Civil Engineer, Electrical Engineer, Mechanical Engineer, Bachelor of Science in Agriculture, Architect, Bachelor of Laws, Doctor of Medicine, Graduate in Nursing, Doctor of Dental Surgery, Engineer of Mines, Engineer of Mines in Geology, Metallurgical Engineer, Graduate in Pharmacy, Pharmaceutical Chemist, Bachelor of Science in Pharmacy, Master of Science in Pharmacy, Doctor of Science in Pharmacy, Bachelor of Science in Chemistry, Chemical Engineer, Bachelor of Arts in Education, Master of Arts, Master of Science, Doctor of Philosophy, Doctor of Science, are conferred after recommendation by the Deans of the respective colleges, by vote of the Regents.

THE UNIVERSITY STATE TEACHERS' CERTIFICATE

The University State Teachers' Certificate is granted to all graduates of the College of Education and to those graduates of the Colleges of Agriculture and of Science, Literature, and the Arts who satisfy the requirements as stated in the bulletins of those colleges.

This certificate by State Law authorizes students to teach in the public schools of Minnesota for two years from date. After that time, upon satisfactory evidence of the student's successful teaching experience, the certificate may be made permanent by the endorsement of the Superintendent of Education and the President of the University.

EXPENSES

FEEES

DEPOSIT FEE

At the beginning of each year, in addition to the first semester incidental fee, a deposit fee of five dollars (Medicine and Dentistry, ten dollars) is required of every student to cover the following possible charges:

Change of registration.....	\$2.50
Examination for removal of condition at set time.....	\$1.00 a subject
Rental of post-office box, university post-office (required of all)	\$.50 a year
Locker rental, locker key deposit.....	\$.50 to \$1.00 a year
Case-book deposit (Law School), laboratory breakages, or damage to University property.	
Penalties for late registration or late payment of fees.	

A penalty fee of one dollar (\$1.00) must be paid by all students who register or pay fees after the prescribed time. (See calendar, page 7.) After the day previous to that on which classes begin, the penalty for delay increases at the rate of twenty-five cents a day.

The unused balance of the deposit fee will be returned at the end of each year. If, at any time during the college year, the charges against a student shall warrant a renewal of the deposit, a second fee of five dollars (\$5.00) will be required.

SPECIAL FEES

The following special items may be included in the expenses of a student:

Minnesota Union membership (required of men)....	\$1.00 a semester
Special examination for removal of condition, at other than the set time	5.00
Examination on subject taken out of class.....	5.00
No fee for such examinations on first entering the University, if taken within the first six weeks.	
Military uniform, men.....	15.00
Gymnasium suit, men and women (approximately).....	5.00

INCIDENTAL FEES

One half of the annual incidental fee, which includes all laboratory charges, is payable at the beginning of each semester. Cards entitling the student to admission to classes will not be issued until the fees have been paid.

Both Courses

Instruments and appliances, estimated.....	350.00
Books, estimated	75.00

School of Mines:

First Year Five-Year Courses

Annual incidental fee.....	\$ 55.00
Note books and supplies (Estimated).....	5.00
Military uniform	15.00

Freshman Year

Annual incidental fee.....	55.00
Books (Estimated)	25.00
Military uniform	15.00
Draughting instruments (Estimated).....	15.00
Note books and supplies (Estimated).....	5.00

Sophomore Year

Annual incidental fee.....	55.00
Field work { Surveying }	100.00 to 150.00
May 1 to July 1 { Geological }	
Books (Estimated)	15.00
Note books and supplies (Estimated).....	5.00

Junior Year

Annual incidental fee.....	55.00
Field work { Mining }	175.00 to 250.00
May 1 to July 1 { Metallurgy }	
Books (Estimated)	30.00
Note books and supplies (Estimated).....	5.00

Senior Year

Annual incidental fee.....	55.00
Books (Estimated)	15.00
Note books and supplies (Estimated).....	5.00

College of Pharmacy:

Annual incidental fee, three-year course.....	\$ 55.00
Military uniform	15.00

School of Chemistry:

Annual incidental fee.....	\$ 55.00
Military uniform	15.00

College of Education:

Annual incidental fee, resident.....	\$ 40.00
Annual incidental fee, non-resident.....	80.00

The Graduate School:

Annual incidental fee.....	\$ 30.00
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STUDENTS EXEMPT FROM FEES

All fellows, scholars, assistants, instructors, and all members of the teaching staff and scientific bureaus or experiment stations shall not be required to pay university fees or tuition.

FEES FOR STUDENTS OF ONE COLLEGE TAKING WORK IN ANOTHER

Where a student of a given college or school elects courses in another, such courses being accepted by the college in which the student is registered as a part of its curriculum, the tuition shall be that of the college in which he is registered.*

If, at any time, such student desires credit for this course towards the degree offered by the second college, he shall pay such additional tuition as is required by the second college, charged in accordance with the schedule indicated below.

FEE SCHEDULE FOR STUDENTS CARRYING LESS THAN FULL WORK

Students carrying less than the complete schedule of work may pay fees on a credit-hour basis. The following table indicates the charge for each college, also the minimum amount that may be paid by any student:

COLLEGE OR SCHOOL	Credit Hour	Minimum
	Fee	Total
Science, Literature, and the Arts.....	\$2.50	\$ 5.00
Engineering	3.00	10.00
Agriculture	2.50	5.00
Law	5.00	10.00
†Medicine	3.00	10.00
†Dentistry	3.00	10.00
Mines	2.00	10.00
†Pharmacy	3.00	10.00
Chemistry	3.00	10.00
Education	2.50	5.00
Graduate School	2.00	5.00

LIVING EXPENSES

BOARD AND ROOM

Women.—Sanford Hall, the one dormitory for women, accommodates ninety girls, about one half of whom may be freshmen. The charge for room and board is \$225 for the University year. Applications should be sent to the Director of Sanford Hall, University of Minnesota.

* A student paying full fees in a given college, electing courses in a lower-fee college, shall pay no additional fees for the work so elected, but if electing in a higher-fee college may have the option of paying the pro rata fees of both or the full fees of the first and pro rata fees of the second.

† In these three colleges the prorating is on the basis of clock hours.

After June 1 the Registrar will supply a list of approved boarding and rooming places. Women may not engage rooms in houses not on this list without permission of the Dean of Women. Luncheons on the cafeteria plan are served daily in Shevlin Hall.

Men.—A list of approved boarding and rooming places may be had upon request at the Bureau of Information and Employment.

At the Minnesota Union, the men's club house on the campus, three meals a day may be secured on the cafeteria plan at practically cost prices. Last year the average price paid for breakfast was 11 cents, luncheon 18 cents, dinner 20 cents. Board by the week varied from three to four dollars.

All Students.—The expense of living at the University varies greatly according to individual habits and tastes. In general the scale of expenses is below rather than above that of similar institutions in the middle west and is considerably lower than that of most institutions situated in the eastern states.

GENERAL EXPENSES—ESTIMATED

The following tables give estimates of the freshman student's expenses in college, omitting clothing, railroad fare, and vacation expenditures. To live within the minimum rate, a student must forego all luxuries and economize in every expenditure.

COLLEGES OF SCIENCE, LITERATURE, AND THE ARTS, EDUCATION, AGRICULTURE,
AND FORESTRY

	Minimum	Average	Liberal
*Annual incidental fee.....	\$ 40.00	\$ 40.00	\$ 40.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Gymnasium suit	4.50	4.50	4.50
Military uniform	15.00	15.00	16.50
Books	12.00	15.00	20.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	\$246.90	\$452.50	\$627.00

Funds absolutely necessary for immediate expenses upon entering these colleges, including two weeks' board and first month's room rent in advance: minimum, \$60.00; average, \$70.00.

* Annual incidental fee for undergraduate students residing outside the State of Minnesota is \$80.

COLLEGE OF ENGINEERING AND ARCHITECTURE

	Minimum	Average	Liberal
Annual incidental fee.....	\$ 60.00	\$ 60.00	\$ 60.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books and instruments.....	25.00	30.00	35.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$275.40	\$483.00	\$657.50

Necessary for immediate expenses upon entering this College; minimum, \$85.00; average, \$95.00.

LAW SCHOOL

	Minimum	Average	Liberal
Annual incidental fee.....	\$ 65.00	\$ 65.00	\$ 65.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Notebooks	5.00	6.00	7.50
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$245.40	\$449.00	\$618.50

Necessary for immediate expenses upon entering this School: minimum, \$50.00; average, \$57.50.

MEDICAL SCHOOL: FIRST YEAR

	Minimum	Average	Liberal
Annual incidental fee.....	\$150.00	\$150.00	\$150.00
Deposit fee	10.00	10.00	10.00
Minnesota Union fee.....	2.00	2.00	2.00
Books and instruments.....	25.00	30.00	30.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$355.40	\$563.00	\$731.00

COLLEGE OF DENTISTRY

	Minimum	Average	Liberal
Annual incidental fee.....	\$100.00	\$100.00	\$100.00
Deposit fee	10.00	10.00	10.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books and instruments.....	100.00	125.00	150.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<u>\$395.40</u>	<u>\$623.00</u>	<u>\$817.50</u>

Necessary for immediate expenses upon entering this College: minimum, \$185.00; average, \$215.00.

SCHOOL OF MINES

	Minimum	Average	Liberal
Annual incidental fee.....	\$ 55.00	\$ 55.00	\$ 55.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books, etc.	20.00	25.00	25.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<u>\$265.40</u>	<u>\$473.00</u>	<u>\$642.50</u>

Necessary for immediate expenses upon entering this College: minimum, \$70.00; average, \$82.50.

COLLEGE OF PHARMACY

	Minimum	Average	Liberal
Annual incidental fee.....	\$ 55.00	\$ 55.00	\$ 55.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books and instruments.....	17.50	20.00	20.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<u>\$262.90</u>	<u>\$468.00</u>	<u>\$637.50</u>

Necessary for immediate expenses upon entering this College: minimum, \$72.25; average, \$80.00.

SCHOOL OF CHEMISTRY

	Minimum	Average	Liberal
Annual incidental fee.....	\$ 55.00	\$ 55.00	\$ 55.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Gymnasium suit	4.50	4.50	4.50
Military uniform	15.00	15.00	16.50
Books and instruments.....	11.75	13.00	15.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	\$261.65	\$465.50	\$637.00

Necessary for immediate expenses upon entering this School: minimum, \$68.00; average, \$78.00.

SELF-SUPPORT

The Bureau of Employment is maintained for the purpose of assisting all students who seek employment, and of developing in all proper ways opportunities for self-help. Communications from students and graduates in regard to obtaining employment should be addressed to this bureau. Students or prospective students applying for the first time must appear at the office in person.

For the benefit of those who are without support of any kind it may be said that many students, with the aid of the money saved during the summer, are making all of their college expenses. Some are able to earn their expenses during the college year, but this can be done only by students of unusual force and adaptability, or with exceptional opportunities. The average man must meet stern competition; he must live economically; he must guard his health while preserving a fair balance between time given to studies and to outside work.

It is not a good policy to begin life in a new community entirely without resources. A prospective student should have at least \$100 or the equivalent in addition to tuition fees; even then it will be necessary for him to do outside work and live very economically. Before he can place himself in a self-supporting position he may have to try again and again, and meanwhile his living expenses will be accumulating. An adequate reserve fund under such conditions will secure peace of mind, health of body, and the benefits of the college year.

The Twin Cities offer exceptional opportunities to the self-supporting student. Students are employed as clerks, bookkeepers, stenographers, salesmen, solicitors, telegraph operators, mechanics, assistants, musicians, waiters, laborers, janitors, and in many other capacities. Considerable work can be secured within walking distance.

Applicants for employment should bear in mind that, while every effort is made to secure work for all who need it, positions can not be assigned in the order in which applications are made. The places available are of so varied a nature that it would be impossible to assign them in order, without regard to the ability and qualifications of different applicants. The employer must secure the best man for his particular position. This means that fitness must be given first consideration. Whenever possible, however, the order of applications is followed.

Those who find themselves without funds at the beginning of the college year would do well to forego registration in day classes but rather seek employment during the day and take up some of the Evening Extension Courses. Those who live in the Twin Cities, or who are able to secure work here, could take the Extension Courses on the Campus and in that way familiarize themselves with conditions. By choosing subjects for which University credit is allowed, these students would make their regular course much easier and give themselves more time for outside work. The Correspondence Courses offered by the Extension Division are available to all. Students who can meet the usual requirements for college entrance are allowed University credit for most of these courses.

DEGREES GRANTED IN 1916

TOTAL—783

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

BACHELORS OF ARTS—236

Grace Myrtle Akenson	Florence Katherine Drewry
Clarence Anderberg	Warren Waldo Dunnell*
Margaret Louise Anderson	Mérton Dunnigan
Ruth Marie Anderson	Ruth Frances Eaton
Wingate Man Anderson*	Lawrence Rudolf Eckman
Maybell Annie Archambo	David Edwin Edelstein
Ralph Eugene Ash	Elsie Elvera Edlund
Anna Bamberg	Mary Stockton Edwards
Clarence Carleton Bausman	Ellen Elsberg
Muriel Bennett	Florence Isabel Flanagan
Emelia Berg	Clement Silas Fox
John Clarence Bettridge*	Carl Cooper Francis*
Bernard William Bierman	Margaret Slocomb Frisbie
Morlan Hoover Bishop	Anna Frye
Ida Miriam Bleher	Marvyl Fuller
Ruth Angie Boreen	Leslie Nathan Garlough
Ernst Fritiof Boström	Donna Louise Geddes
Albert Shrader Brasie*	Orville Almon George
Jean Brawley	Grace Exie Gilbert
Jane Maud Briggs	Irene Dorothy Gilkerson
Mary Helen Brodrick	Marguerite Gillette
Richard Joseph Carroll Brown	Emma Godemann
Amy Lende Brusven	Hyme Goldfus
Harriet Louise Buck	Edith Goldsworthy
Rose Frances Burke	Delmer Morrison Goode
Wendell Tipton Burns*	Alberta Mercedes Goodrich
Lucile June Butler	John Francis Vincent Griffin
Marion Eileen Byron	Ralph Haefner
Carl Calvin	Verna Jane Hall
Mary Rebecca Cassell	Alice Margaret Hanson
Nellie Churchill	Ermine Janice Harding
Wayne John Colahan	Ina Esther Hario
Ralph Colby*	Everline Harlis
Mary Augusta Cole	Stanley James Harper*
Florence Harriet Collins	Carl William Hayden*
Miriam Augusta Compton	Edna Elizabeth Healey
Russella Jean Cooper	Dorothy Heinemann
Marcellus Countryman*	Robert Valentine Heinze
Katherine Mary Crocker	Helen Mabel Helgeson
John Edwin Dalton*	Ruby Blanche Hernlund
Donna Noyes Davis	Hortense Hilbert
Evelyn Denison	Ruth Elizabeth Holasek
Marion Ellen Dolan	Agnes Evelyn Holt
Louise Therese Dodsall	Hazel Adele Holt
Wendell Lanphear Downing	Horace Raymond Horn*
Myron Amos Dresser	Mabelle Lucy How

* Rendered a real service as adviser to freshmen during the year 1915-16.

Arthur Hustad
 Esther Juliane Jepson
 Alfred Johnsrud
 Dorothy Jones
 Noble Jones*
 Stanley Parker Jones
 Cyrus Stegner Kauffman
 Elizabeth Emma Kehne
 Robert Helm Kennicott
 Katherine Kester
 Jessie Phare Kline
 Pearle Knight
 Mabel Evelyn Kyllo
 Louise Hooker Leavitt
 Elizabeth Lucile Lobdell
 Astrid Loftfield
 Elizabeth Adeline Loomis
 Reuben Wilcox Lovering
 Clarence Timothy Lowell
 Edith Magdaline Ludwig
 Agatha Lunde
 Ida Lyness
 Genevieve Mildred McCarthy
 Marguerite Elizabeth McGee
 Jean McGilvra
 Ralph William McGrath
 James Claude McGraw
 Kenena MacKenzie
 Isabel Margaret McLaughlin
 Timothy Irving Madigan*
 Marie Esther Madson
 Jacob Mantta
 Einar Markhus
 Bonnie Mason
 Rebecca Holton Mason
 Doris Eleanor Mathieson
 Sekiichi Matsuoka
 Hymen Mendow, LL.B.
 Arnold Michelson
 Janet Emma Miller
 Marjorie Boyd Mills
 Lottie May Mitchell
 Esther Josephine Moe
 Mary Critchell Moody
 Gladys Emma Moore
 Hazel Winifred Morrill
 Emily Eleanor Morris
 Kathryn Anna Morrison
 Mildred Morse
 Esther Myrah
 Elizabeth Nelson
 Elizabeth Day Nichols
 Edward Camp Nicholson*
 Anna O'Brien
 Wallace Dillon O'Brien
 Loretto O'Dea

Constance Eline O'Halloran
 Thomas O'Hearn
 Hazel Mary O'Neill
 Adolph Bernard Olson*
 James Blaine Ostergren
 Tessie Osterman
 Blanche Oswald
 Nada Muriel Overland
 Anna Elizabeth Peck
 Oscar Peterson
 Maude Eunice Plummer
 Mary Gray Poore
 Pearle Marie Poore
 Anastasia Mary Posel
 Merle Addison Potter
 Henrietta Prindle
 Leland McLeod Pryor
 Max Peter Rapacz*
 Olaf Selmer Rask
 Mary Ray
 Ruth Mildred Ray
 Kinsley Renshaw
 Helen Rich
 Kenneth Volkert Riley*
 Esther Eunice Roberts
 Morris Roberts
 Lois Margaret Robinson
 Russell Franklin Rypins*
 Dorothy Johanna Schaffnit
 Josephine Schaller
 Neva Belle Schroeder
 Florence Eliza Scott
 Marion Scovell
 Josephine Sargent Sechler
 John Sibley Shadbolt
 Florence Marie Sharkey
 James David Shearer
 Reta Loucinda Shepard
 Ruth Mildred Sherwin
 Albert Raymond Shiely
 Olive Fay Shumway
 Dora Valentine Smith
 Francis Marion Smith
 John Godfrey Smith*
 Kate Aline Smith
 Harold Alvin Sorlien
 Kathryn Lucy Spink
 Walter Joseph Spriggs*
 Alice Emily Stacy
 Edwin Pierce Stacy
 William Walter Staudenmaier
 Ruth Draemel Stephens
 Hazel Sulerud
 Marjorie Ruth Sutton
 Helen Permelia Sweeney
 Hazel Adella Switzer

* Rendered a real service as adviser to freshmen during the year 1915-16.

Albert Frederick Thiel
 Marion Floy Thomas
 Ruth Adelaide Thygeson
 Sprague Pillsbury Townsend*
 Karl Trout
 Rose Mary Tschida
 Sigurd Ueland*
 Ralph Sylvester Underwood*
 Clarence Baker Van Slyke
 Walter Lloyd Varco*
 Harold Vennes
 Alice Elizabeth Walker
 Keith Walker
 Ruth Martha Wilhelmina Wallfred
 Gina Oline Wangness
 Eloise Webster

Louise Weesner
 Elizabeth Jeannette Welch
 Martha Caroline Wennerholm
 Dwight Williams
 Edith May Williams
 Helen Matthews Williams
 Jennie Williams
 Ralph Williamson
 Alice Josephine Willoughby
 Agnes Mathilda Wilson
 Ida Louise Wilson
 Ruth Wilson
 Selma Winden
 Adelia Winther
 Luise Mildred Yoerg
 Dorothy Mildred Zeuch

BACHELORS OF ARTS—*In Music*—4

Gyda Adelia Gutteresen
 Theresa Elizabeth Maier

Margaret Ingham
 Gladys Jenness

BACHELORS OF SCIENCE—45

Ellery Leslie Armstrong
 Harry Eli Bank
 Bottolf Bottolfson
 Robert Laing Christie
 Wyman Charles Cole
 Lloyd Glenn Dack
 Solomon David David
 Solomon Fineman
 Lynn Araunah Fullerton
 Joseph Gamble
 Otto Groebner
 William Winthrop Hall
 John Le Roy Haskins
 Arthur Hawkins
 Edgar Thomas Herrmann
 Rolf Hovde
 Harold Edwin Hullsiek
 Carl Fisk Jones
 Harry Kennedy
 Arnold Larson
 Henry Melvin Lee
 John Lepak
 Oscar Samuel Levin

Albin Lothard Lindall
 Roy Casper Little
 Rudolph Charles Logefeil
 Elmer Lundquist
 Donald McCarthy
 Arthur Edwin Mahle
 Morris Nathanson
 Fritz Pearson
 John Nelson Perkins
 William Thomas Peyton
 Jake Arthur Riegel
 William Robert Reinhardt
 George Noel Ruhberg
 Virgil Joseph Schwartz
 Edward Phelan Slater
 Jerome Francis Smersh
 Albert Markley Snell
 Carl Swendsen
 Hjalmar Sybilrud
 Benjamin Thane
 John Timm
 John Wallinga

THE COLLEGE OF ENGINEERING AND ARCHITECTURE

CIVIL ENGINEERS—8

William Arthur Cuddy, B.S.
 Thomas Kenneth Leonard, B.S.
 Earle Douglas McKay, B.S.
 Olav Martin Rufsvold, B.S.

Elmer Clarence Scott, B.S.
 Peter Skurdalsvold, B.S.
 Oscar Emanuel Swenson, B.S.
 Carl Daniel Wild, B.S.

* Rendered a real service as adviser to freshmen during the year 1915-16.

ELECTRICAL ENGINEERS—10

Henry Claus Thomas Eggers, B.S.	Clifford Eugene Olaison, B.S.
Walter Scott Garvey, B.S.	Rutcher Skagerberg, B.S.
Elting Wade Houghtaling, B.S.	Lyman Taylor, B.S.
Robert ap Jones, B.S.	Harry Thomas Thompson, B.S.
Scott Walter Lawrence, B.S.	Roy Hazelton Turner, B.S.

MECHANICAL ENGINEERS—7

Ralph Reginald Boyles, B.S.	Earl Hovey Roberts, B.S.
David Murray Giltinan, B.S.	Herman William Skon, B.S.
Abner Waldo Holmberg, B.S.	William Samuel Wolff, B.S.
Jee Kwun Wong, B.S.	

BACHELORS OF SCIENCE—*In Engineering*—57

Amos Herbert Abbott	Warren Olavus Kivley
Frank Lawrence Anderson	Archibald Christian Knauss
Timothy George Arenson	Edward Kopper, Jr.
Thomas Archer Askew, Jr.	Carl Larson
William Frank Biskup	Donald Loye
George Wright Bleecker	Arthur Ernest Lux
Evar Harry Blomberg	Bruce Murdock McCullough
Louis Marston Brown	Arthur Pearson Mason
Hjalmar Nels Bruce	William Charles Miller
Fred Richard Burt	Chester Sherman Moody
Russell Irvin Butterworth	Sylvester Emery Nortner
Anders John Carlson	Wen Huan Pan
John Corser	Harold Leon Peterson
Russell Oliver Covell	William Peterson
Daniel Robbins Crosswell	John Reid Ritchie
Charles Edward Doell	Carl Austin Russell
William Gould Dow	Elton Albert Schulz
Harry Samuel Dresser	Walter Wallenau Simons
Philip Edelman	George Alfred Smart
Selmer Ellefson	Charles Wellington Stone
Elmer Ellingson	Hiram Tallmadge
Karl de Vries Fastenau	Ernest John Teberg
Danforth King Gannett	Jesse Lysander Thompson
Robert Grow	Axel Albin Turnquist
Norman Everard Hendrickson	Fred Oconnor Watson
George Albert Hult	Ernest Weinke
Frank Harold Irwin	Walter William Wentz, E.E.
Ira Leroy Johnson	Charles Alfred Williams
Ralph Estes Johnston	

BACHELORS OF SCIENCE—*In Architecture*—4

Pierce Allbee	Jacob Josephus Liebenberg
Donald Campbell Heath	Louis William Tannehill

THE COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE—*Course in Agriculture*—53

Mark Moore Abbott	David Franklin Adams
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Arthur Lawrence Anderson	George Kenyon Lindsay
Charles Albert Anderson	Ray James Little
Harris Truman Baldwin	Alden Washington Malcomson
Knute Bjorka	John Marsh Martin
Clarence Aaron Bornkamp	Ira Montgomery
Otis Purcell Brewster	Ogden Carothers Morlan
George McSpadden Briggs	Arvid Nelson
Louis Avery Campbell	Conrad Arthur Nelson
Francis Ezra Cobb	George Henry Nesom
Harold George Diepenbrock	Reuben Walter Oakes
Robert Simon Doherty	B.A. in Educ. '08, Minnesota
Ernest Dorsey	Roy Lethrup Olson
George Edward Egginton	Emil Alexander Oman
Arthur Emanuel Engebretson	William Earl Petersen
Joseph Paul Gainor	Benjamin Picha
John Columbus Gillian	Ralph Wenzel Rogers
Robert Waldo Hacking	Ernest George Roth
Marshall Hertig	Theodore Julius Saed
Robert Eliphalet Hodgson	William Moses Shaw
Benjamin Hofstad	Clarence Julian Skrivseth
Archie Wallace Jardine	Gustave Albert Strobel
Reuben Nathaniel Johnson	Emil Martin Thorsen
Gerrhardus Danford Jooste	Theodore Wilhelm Anskatius Thorson
Leslie Lathrop	Francis Grant Wells
Hector Corellan Lende	Clarence Arthur Wirth
Richard Lewis	Allen Clement Wolf

BACHELORS OF SCIENCE—*Course in Home Economics*—41

Marie Frances Adler	Mildred Irene Kimball
Helen Frances Angier	Mary Ellen Ruth Lindquist
Carolyn Wilson Beach	Esther Ramsay MacEwen
Lydia Margaret Broecker	Marjorie Elizabeth Marchbank
Irene Frances Castner	Esther Elvira Mattson
Anné Genevieve Cooper	Ethel Julia Mealey
Bernice Jean Cowan	Carrie Villa Nobles
Wanda Lillian Daum	Oliane Antoinette Olsen
Henrietta Louisa Dodge	Ruth Anna Palmer
Kathleen Laurette Donaghue	Sarah Frances Parker
Elizabeth Mary Giblin	Eva Lucinda Rankin
Elsie Christina Hansen	Elizabeth Anne Rivers
Agnes Hanson	Emma Siehl
Helen Claire Hickok	Ruth Elizabeth Snell
Myra Marie Howie	Gertrude Strong
Gertrude Marie Jacobsen	Josephine Swenson
Gladys Glee Jacobson	Rose Swinburne
Mary Phoebe Clune James	Mary Sherwin Whitlock
Luella Mathilde Johnson	Maude Erna Williams
Ruth Fredrika Johnson	Hazel Marie Wilson
Olive Lynn Keller	

THE COLLEGE OF FORESTRY

BACHELORS OF SCIENCE—10

Harry Edwin Bartelt	Martin Jerome Brodrick
Ernest Thomas Bell	Leo Francis Crane
Philip Bucknam Blake	Atle Brun Gjerlow

Luther Edward Hyde
Oscar Sylvester Johnson

Ralph Emerson Rhodes
Edwin Reuben Schwartz

THE LAW SCHOOL

BACHELORS OF LAWS—30

John Frederick Brandmeier
Allan Briggs
Earl Vincent Cliff
Harold Will Cox
Robert Mabie Crouse, B.A.
John Nealis Donohue, B.A.
John Frederick Dulebohn, B.A.
Ingolf Arne Grindeland
Lyle Alonzo Hamlin
Henry Waxmuth Haverstock*
John Byron Hompe
Howard Theodore Lambert, B.A.
William Robert Mitchell
Lester Edwin Nelson
Bert Irvin Packer

Albin Sigfred Pearson
Lloyd Ruswell Peterson
Donald Lane Pomeroy, B.A.
Maugridge Snowden Robb
David Schwartz
Albert Raymond Shiely
Harold Goodsir Simpson
Donald Stewart
Charles Stanley Thompson, B.A.
George Van Ornum Thomson
Allan Lydiard Weeks
Joseph Henry Wendel
Elmer Lloyd Williams, B.A.
Denzil Young
Henry Gottfritz Young

THE MEDICAL SCHOOL

DOCTORS OF MEDICINE—36

Ellery Leslie Armstrong
Harry Eli Bank
John Warren Bell, B.S.
Eric Thorston William Boquist, B.S.
Bottolf Bottolfson
Louisa Elizabeth Boutelle, B.A.
Carl Chamberlynn Cowin, B.S.
Lloyd Glenn Dack
Solomon David David
James Dunn, B.S.
James Everett Dyson
Lynn Araunah Fullerton
Bernard Gallagher, B.S.
John Alfred Halgren
Abraham Haskell, B.S.
John LeRoy Haskins
Harold Edwin Hullsiek
Carl Fisk Jones

Oscar Miller Klingen
Carl Lembke, B.S.
Oscar Samuel Levin
Albin Lothard Lindall
Harold Anders Noreen
Carl Paulson, B.S.
Oliver Hilmer Peterson, B.S.
Charles Simon Raadquist
Kinsley Renshaw
Lyle Roberts
Iver Ferdinand Sellesteth, B.S.
Lee Whitmore Smith, B.A.
Thomas Joseph Snodgrass, B.S.
Harris Raymond Sutton, B.A.
Roy Edwin Swanson
Benjamin Thane
Horace Villars
Percy Alson Ward, B.S.

GRADUATES IN NURSING—10

Mary Gertrude Brockway
Emily Compton Covert
Mina Marie Curry
Myrtle Marie Hollo
Mabelle Harriet Moore

Myra Della Moulton
Cecilia Antoinette Rosenthal
Mathilda Caroline Schlutz
Ellen Annette Selleseth
Matilda Elizabeth Swenson

* Rendered a real service as adviser to freshmen during the year 1915-16.

THE COLLEGE OF DENTISTRY

DOCTORS OF DENTAL SURGERY—81

Walter Ernest Behring	Joseph Francis Kotrich
Louis Mason Benepe, Jr.	Max Carl Kraft
Carl Waldemar Benson	Glenn Dale Lacey
George Christian Bratager	Archie Lang
Therlo Edson Burrington	Chester Larson
Harry Lee Bursell	Leonard Larson, LL.B.
George Vernon Butler	Cyril Verne Lehman
Arthur Clarence Carlson	Abraham Arthur Litin
Rae Carroll	Sophus Lossius
Milburn John Cary	Elwyn Kingston Love
Ray Lyman Clay	Clarence Henry Lundblad
Joseph Cohen	Norman Albertus Lussier
Wilbur Clifford Covey	Paul Manternach
Vern Lee Cowan	Erna Marie Meyer
Walter Crowell, Jr.	Earle Wilfrid Nelson
Louis Morris Cruttenden	Halver Charles Olson
Ray David Curry	Eldred Clarence Oswald
Caspar Dahl	Lee Edwin Parker
Paul Danz	Palmer Leonard Peterson
Thomas Martin Darrington	Milton Addison Price
Rudolph Wavrunek Delton	Elmer Henry Ralston
Shellie Elroy Dick	Kenneth Reed
Elmer Doyle	Edwin Clinton Russell†
Patrick Matthew Dunn	Edward Michael Ryan
Victor Julius Eastman	Carl Sandahl
Carl Henry Ellerston	Henry John Schopf
William John Ford	William Ernest Schultz
Clarence Sylvanus Gies	John Sebastian Simons
Thomas Arnold Glade	Elmer Ferdinand Stemper
Archie Gottenborg	Roscoe Edwin Stewart
Carl Haedge	Lewis Riddle Stowe
Fred Hayes	Thomas Emmet Sullivan
Oscar Emanuel Hedin	Harry George Talbot
Clare Eugene Hermann	William Robert Taylor
Helmer William Holmgren	Frank Emil Tibesar
Arthur Huderle	Carl Frederick Traholt
Leonard Milton Ingebrigtsen	Clinton Harry Vroman
Carl Edwin Johnson	Harold Ferdinand Wahlquist
Oscar Henry Johnson	William Lester Webb
Walter James Kennedy	Roland Zierke
Roland Grefthen Keyworth	

THE SCHOOL OF MINES

ENGINEERS OF MINES—9

Samuel Aronson	Adolph Oliver Dovre
Leon Thomas Collins	Oscar Lee
John Jay Craig	Archibald John McDermid
Fred Alexander Davies	Roy Harold McHardy
	Harry Hartwick Nord

† Died April 26, 1916. Degree conferred post obitum.

METALLURGICAL ENGINEERS—2

Alvin Thomas Krogh

Ervin Wesley McCullough, E.M.

THE COLLEGE OF PHARMACY

MASTERS OF SCIENCE IN PHARMACY—2

Oscar James Blossom, Ph.C., M.Ph.

Charles Herbert Rogers

BACHELOR OF PHARMACY—1

Charles Cutting

GRADUATES IN PHARMACY—30

Jacob Solomon Balzer
 Lloyd George Beardsley
 Hallie Frances Evelyn Bruce
 Miles Cannon
 Thomas Ferdinand Chan
 Frank Lewis DeMars
 Merle William Else
 Louis Gauthier
 Albert Theodore Gilbertson
 Francis Marion Greenwalt
 Emergene Lillian Gronlund
 Angie Martha Hermanson
 Alfred Meade Hirscher
 Esther Johnson
 Frank Johnson

Albert Julius Kohls
 Arthur Larson
 Edward George Lehman
 Hjalmar Line
 James Francis Mahoney
 Emil Maixner
 Frank Lester Redfield
 David William Salisbury
 George Schmidt
 Lloyd Hillmer Scott
 Charles John Smith
 Raymond Smith
 Albert Walter Stoppel
 Charles Jacob Tenhoff
 Bernard John Witte

THE SCHOOL OF CHEMISTRY

BACHELOR OF SCIENCE—1

Alexander Dewey Bell

BACHELORS OF SCIENCE—*In Chemistry*—3

Merton Dunnigan

Leon Walker Morrow

Benjamin Leslie Souther

THE COLLEGE OF EDUCATION

BACHELORS OF ARTS—*In Education*—41

Charles Edward Bell
 Joseph Benjamin Berg
 Edith Bezanson
 Peter Breden
 Calder Blaine Bressler
 Rebecca Ruth Brown
 Clara Kathleen Carney
 Michael Mariner Cates
 Jean Agnes Colville

Lulu Cummins
 Malvina de Camp
 Lulu Mabel Elliott
 Nels Erickson
 Benjamin Eveslage
 Sivert Gerhard Gilbertson
 Svanhild Winifred Grimsgard
 Oliver Warren Hake
 Esther Agnes Harrison

Cora Jeanette Heilig
 Verna Hermann
 Ruda Maud Irlie
 Mildred Helena Jensen
 Belle Karon
 Jennie Laura McKenzie
 Amy Stone Mitchell
 Grace Moonan
 James August Nelson
 William Kelly Norris
 John Ross Oberg

Esther Cornelia Ostergren
 Anna Caroline Peterson
 Ethel Aurora Peterson
 Anna Grant Ryan
 Georg Albert Selke
 Wilhelm Erich Selke
 Clara Justine Simon
 Allan Poucher Snody
 Harold Herman Sontag
 Mabel Mathilda Sorensen
 Nellie Alma Stevens

Clare Young

THE GRADUATE SCHOOL

MASTERS OF ARTS—35

- Harry Lloyd Altman
 B.A. '15, Minnesota
 Major, Economics
 Minor, Law
 Thesis, Price Maintenance
- George Silk Barnum
 B.A. '11, Cornell
 Major, Romance Languages
 Minor, English
 Thesis, The Realism of Vicente Blas-
 co Ibañez
- Earl Alonzo Barrett
 B.A. '14, Cornell
 Major, Romance Languages
 Minor, Rhetoric
 Thesis, A Study of the Language of
 Charles Nodier
- Elizabeth Bragdon
 Ph.B. '00, Northwestern
 Major, English
 Minor, Latin
 Thesis, A Study of Extant Miracle
 Plays and Records of Lost Miracle
 Plays to Determine the Nature and
 Scope of Miracle Plays in England
- Gladys McAlpine Campbell
 B.A. '12, Knox
 B.A., '13, Vassar
 Major, History
 Minor, Political Science
 Thesis, A Study of the Relation of
 the English Parish and New Eng-
 land Town Meeting
- Mae Pauline Chestnut
 B.A. '14, Minnesota
 Major, Rhetoric
 Minor, English
 Thesis, The Gothic Element in the
 Works of Tobias Smollet
- Milton Conover
 Ph.B. '13, Dickinson
 Major, Political Science
 Minor, History
 Thesis, The Development of Civil
 Pensions in the United States
- Margaret Quinlan Corkrey
 B.A. '14, Minnesota
 Major, Latin
 Minor, French
 Thesis, The Characteristics of the
 Women of Terence
- Joseph Earl Cummings
 B.A. in Educ. '15, Minnesota
 Major, Economics
 Minor, Political Science
 Thesis, A Study of the Present Stat-
 us of Commission Regulation of
 Public Utilities in the United
 States, with Especial Attention to
 the Cost of Regulation
- Dagmar Doneghy
 B.A. '15, Wisconsin
 Major, English
 Minor, Romance Languages
 Thesis, Henry Fielding: Theory of
 the Comic
- Florence Mary Donohue
 B.A. '14, Minnesota
 Major, Romance Languages
 Minor, Latin
 Thesis, Bernardin de Saint-Pierre's
 Contributions to Chateaubriand
- John Frederick Eynck
 B.S. '13, B.A. '14, Valparaiso
 Major, Comparative Philology
 Minor, German
 Thesis, The Historical Development
 of Terms Denoting Time in Eng-
 lish and German

- William Richard Fieldhouse
Ph.B. '99, Michigan
Major, History
Minor, Political Science
Thesis, History of the Flour Milling Industry of Minneapolis
- Sybil Isabelle Fleming
B.A. '15, Minnesota
Major, History
Minor, English
Thesis, The Life of John Hampden, November 3, 1640, to January 11, 1642
- Alice Julia Flinn
B.A. '15, Macalester
Major, English
Minor, French
Thesis, The Literary History of Lord Houghton's "Life of Keats," with Its Possible Influence on the Pre-Raphaelite Poets
- Florence Vehon Gumbiner
Ph.B. '13, Chicago
Major, History
Minor, Political Science
Thesis, Preliminaries of the Presidential Election of 1832
- Howard Lewis Hall
B.A. '15, Minnesota
Major, Economics
Minor, Sociology
Thesis, Combinations and the Foreign Trade
- Franklin Fisk Holbrook
B.A. '13, Minnesota
Major, History
Minor, Philosophy and Psychology
Thesis, The Early Political Career of Ignatius Donnelly, 1857-1863
- John Ludwig August Huchthausen
Candidate Reverend Minister 1892, Concordia Theological Seminary
Major, German
Minor, Comparative Philology
Thesis, Friedrich Hebbel's Esthetic Theories of the Tragedy
- Howard Theodore Lambert
B.A. '13, Minnesota
Major, Political Science
Minor, Law
Thesis, Boards and Commissions: Their Appointment and Powers
- Edgar Hughes Norris
B.S. '15, Minnesota
Major, Anatomy.
Minor, Pathology
Thesis, The Morphogenesis of the Follicles of the Human Thyroid Gland
- Jean St. John Plant
B.A. '15, Minnesota
Major, Animal Biology
Minor, Botany
Thesis, A Contribution to the Life History of the Water Scorpion (*Ranatra fusca*, Pallas Beuvé)
- Hugh Bruce Price
B.A. '14, Wisconsin
Major, Economics
Minor, Sociology
Thesis, The Inspection and Grading of Grain
- Lucile Anne Quinlan
B.A. '12, Trinity
Major, French
Minor, Rhetoric
Thesis, The Social Questions in the Novels of René Bazin
- Lloyd Howard Rutledge
B.A. '15, Missouri
Major, Anatomy
Minor, Pathology and Bacteriology
Thesis, The Morphology of the Digestive and Respiratory Tracts in a Twenty-Millimeter Pig Embryo
- Noel Gharrett Sargent
B.A. '15, Washington
Major, Economics
Minor, Political Science
Thesis, The American Lumber Industry, with Especial Reference to the Tariff
- Jeanette Saunders
Ph.B. '15, Wooster
Major, History
Minor, Political Science
Thesis, A Critical Edition of Richard Grosvenor's Notes on the Parliament of 1627-1628
- Arnold Wilkinson Shutter
B.A. '14, Yale
Major, German
Minor, History
Thesis, Some Aspects of Humor in the German Novelle

- Sister Frances Rita Ryan
B.A. '15, St. Catherine
Major, History
Minor, Latin
Thesis, History of the Expedition to Jerusalem by Fulcher of Chartres (Translation from the Latin)
- Sister Rose Catherine McLaughlin
B.A. '14, St. Catherine
Major, French
Minor, Latin
Thesis, Sainte-Beuve: Classicist and Romanticist
- Rinehart John Swenson
B.A., '15, Minnesota
Major, Political Science
Minor, History
Thesis, River and Harbor Improvements by the United States Government
- Robert Raymond Thompson
B.A. '15, Minnesota
Major, Sociology
Minor, Geology
Thesis, The Attitude of Primitive Peoples towards Amalgamation with Alien Groups
- George Tilford
B.A. in Educ. '08, Normal School, Emporia, Kansas
B.C.S. '10, School of Commerce, New York University
Major, Economics
Minor, Political Science
Thesis, A Study of the Subject of Rural Credits with an Analysis in Detail of the Principles of the Building and Loan Association as a Possible Solution
- Frederick Gale Tryon
B.A. '14, Minnesota
Major, Economics
Minor, Geology
Thesis, The Nine-Dollar Minimum Wage in Minnesota
- Hildegarde Evelyn Wanous
B.A. '15, Minnesota
Major, English
Minor, Rhetoric
Thesis, The Bohemian Liturgical Drama Including the Translation of the Bohemian Texts into English

MASTERS OF SCIENCE—20

- Clyde Harold Bailey
B.S. in Agr. '13, North Dakota
Major, Agricultural Chemistry
Minor, Agronomy and Farm Management
Thesis, The Relation of Certain Physical Characteristics of the Wheat Kernel to Its Composition and Quality
- Franklin Charles Clapp
B.S. in Agr. '15, Minnesota
Major, Soils
Minor, Agricultural Engineering
Thesis, Productivity of Certain Peat Soils as Related to Their Chemical Composition
- James Martin Curran
B.S. in Agr. '14, Minnesota
Major, Agronomy
Minor, Agricultural Economics
Thesis, The Effect of Environment on the Growth and Character of Corn
- Arthur Chester Dahlberg
B.S. in Agr. '15, Minnesota
Major, Agricultural Chemistry
Minor, Bacteriology
Thesis, The Enzymes of Butter
- Elmer Thomas Fegan
B.S. '15, Minnesota
Major, Chemistry
Minor, Pharmacology
Thesis, An Electrometric Study of Developers
- George Elmer Holm
B.S. '14, Carleton
Major, Agricultural Chemistry
Minor, Soils
Thesis, The Soluble Non-Sugar Solids of Sorghum Juice
- Walter Barnes Lang
B.A. '15, Minnesota
Major, Geology
Minor, Petrology
Thesis, Deformation by Fracture

- Moses Naphtali Levine
B.S. in Agr. '15, Minnesota
Major, Plant Pathology
Minor, Botany
Thesis, The Effect of Ecological Factors on the Morphology and Physiology of *Puccinia Graminis* and *Puccinia Phleipratensis* Urediniospores
- William Foster Lusk
Ph.B. '03, Wisconsin
Major, Agricultural Education
Minor, Agriculture
Thesis, The Use of School Land in Connection with Agricultural Teaching in Minnesota Secondary Public Schools
- Simon Marcovitch
B.S. '14, Cornell
Major, Entomology
Minor, Animal Biology
Thesis, The Strawberry Weevil in Minnesota
- Darwin May
B.S. '14, Minnesota
Chem.E. '15, Minnesota
Major, Chemistry
Minor, Pharmacology
Thesis, Reaction between Chloroform and Aqueous Potassium Hydroxide
- Charles Ulysses Moore
B.A. '06, Texas
M.D. '10, Minnesota
Major, Pediatrics
Minor, Chemistry
Thesis, Phenol Excretion in Infants, including Newborns
- Joseph Robert Neller
B.S. '13, Macalester
Major, Soils
Minor, Agricultural Chemistry
Thesis, A Study of the Effect of Different Cropping Systems upon the Productivity and upon Some of the Physical and Chemical Properties of the Soil
- Allen Thurman Newman
B.S. '12, Nebraska
Major, Chemistry
Minor, Pharmacology
Thesis, Menthone: Its Condensation and Addition Products in the Presence of Aluminum Chloride
- Charles Palmer
D.D.S. '12, Ohio
Major, Physiology
Minor, Physiological Chemistry
Thesis, Thyroidectomy in the Pig
- George Priester
B.E. '10, Iowa
Major, Mathematics
Minor, Civil Engineering
Thesis, Theory of Columns
- Laurence Arthur Stenger
E.E. '06, Minnesota
Major, Chemistry
Minor, Metallography and Bacteriology
Thesis, Corrosive Action of Soils on Iron and Lead
- Lucius Harlow Watkins
B.S. '14, Macalester
Major, Farm Management
Minor, Horticulture
Thesis, Monthly Distribution of Horse and Man Labor on the Farm
- Hugh Brown Wilcox
B.S. in Eng. '14, Minnesota
Major, Astronomy
Minor, Mathematics
Thesis, A Study of Accuracy in Stellar Photography with Special References to Focal Length and Aperture
- Guy Haines Woollett
B.S. '10, Minnesota
Major, Chemistry
Minor, Physics
Thesis, A Catalytic Decomposition of Some Silver Salts

DOCTORS OF PHILOSOPHY—7

- Paul Henry Mallet-Prevost Brinton
 B.S. '12, M.S. '13, Minnesota
 Major, Inorganic Chemistry
 Minor, Metallography
 Thesis, Contributions to the Chemistry of Meryllium
- Elmer Ray Hoskins
 B.A. '12, Kansas
 M.A. '13, Minnesota
 Major, Anatomy
 Minor, Physiology
 Thesis, The Growth of the Body and Organs of the Albino Rat as Affected by Feeding Various Ductless Glands (Thyroid, Thymus Hypophysis, and Pineal)
- Paul Ernest Klopsteg
 B.S. '11, M.A. '13, Minnesota
 Major, Physics
 Minor, Mathematics
 Thesis, A Critical Study of the Theory and Development of Methods of Application of the Open Moving Coil Galvanometer
- Vaman Ramchandra Kokatnur
 B.S. '12, Bombay
 M.S. '14, Minnesota
 Major, Organic Chemistry
 Minor, Geology
 Thesis, The Action of Trioxymethylene on the Various Organic Compounds in the Presence of Aluminium Chloride
- Frances Helen Relf
 B.A. '11, M.A. '12, Minnesota
 Major, History
 Minor, English
 Thesis, An Interpretation of That Part of the Petition of Right Pertaining to Imprisonment, with a Narrative of the Passage of the Petition through Parliament, and a Discussion of Its Nature as Finally Answered by the King
- John Ernst Weaver
 B.S. '09, M.A. '11, Nebraska
 Major, Botany
 Minor, Plant Pathology
 Thesis, A Study of the Vegetation of Southeastern Washington and Adjacent Idaho
- Gilbert Livingston Wilson
 B.A. '96, M.A. '99, Wittenberg
 Major, Anthropology
 Minor, Spanish
 Thesis, the Agriculture of the Hidatsa Indians: an Indian interpretation

HONORS AND PRIZES

HONORS

THE WESTERN INTERCOLLEGIATE CONFERENCE MEDAL

Bernard William Bierman

HONOR GRADUATES OF THE MILITARY DEPARTMENT TO BE REPORTED
TO THE ADJUTANT GENERAL OF THE UNITED STATES ARMY AND
THE ADJUTANT GENERAL OF THE MINNESOTA NATIONAL GUARD

Cadet Lieutenant Colonel

Pierce Allbee

Cadet Majors

Earle Douglas McKay

Arthur Pearson Mason

George Noel Ruhberg

Cadet Captains

Archibald Christian Knauss

Edward Camp Nicholson

Ralph Richards, B.A. '15

HONORS IN PUBLIC SPEAKING

Wendell Tipton Burns

Edward Camp Nicholson

David Lundeen, L. '18

Harold Alvin Sorlien

THE EINAR HOIDALE PUBLIC SPEAKING CERTIFICATES

John Dahlquist, A. '18

David Lundeen, L. '18

Thorolf Evensen, A. '17

Edward Camp Nicholson

Raymond Paul Gruetzmacher, A. '17

Omar Pfeiffer, A. '17

Harold Alvin Sorlien

DEGREES WITH DISTINCTION

In Chemistry

Rebecca Holton Mason

In Economics

Carl William Hayden

In English

Morris Roberts

Dora Valentine Smith

In History

Miriam Augusta Compton

Mary Ray

Dorothy Heinemann

Esther Eunice Roberts

In Latin

Helen Matthews Williams

In Mathematics

Ruth Draemel Stephens

In Rhetoric

Ruth Angie Boreen
Myron Amos Dresser

Delmer Morrison Goode
Ruby Blanche Hernlund

DEGREE WITH HONORS

In History

Karl Trout

MINNEAPOLIS COLLEGE WOMAN'S CLUB SCHOLARSHIP

Mary Smith, A. '17

ST. PAUL COLLEGE WOMAN'S CLUB SCHOLARSHIPS

Margaret Drew, Ag. '17

Anna Jacobs, A. '17

Edith Jones, A. '17

THE MOSES MARSTON SCHOLARSHIP

James Clark, A. '17

THE ALBERT HOWARD SCHOLARSHIP

Morris Roberts

THE CLASS OF 1890 SCHOLARSHIP

Ruth Wilson

THE SHEVLIN FELLOWSHIPS

Science, Literature, and the Arts

Sybil Isabelle Fleming, B.A. '15, Minnesota

Agriculture

Freeman Weiss, B.S. '15, Minnesota

Medicine

Charles Cullom Gault, B.A. '14, Randolph-Macon

Chemistry

Orin David Cunningham, B.S. '14, Northwestern

PRIZES

THE BRIGGS PRIZES IN FOUNDRY PRACTICE

First Prize

Paul Rhame, E. '18

Second Prize

Henry Hartig, E. '18

THE FRANK H. PEAVEY PRIZE

First Place

Paul Jarosack, A.L. '19

Second Place

William Prosser, A. '18

Third Place

Fredo Ossanna, A. '18

THE LUDDEN TRUST PRIZE

First Place

Eva Andrews

Second Place

William Prosser

Fredo Ossanna

THE JOHN S. PILLSBURY PRIZES

First Prize

Thorolf Evensen, AL. '17

Second Prize

Louis Goldberg, A. '17

Third Prize

Wendell Tipton Burns

THE JOURNAL PRIZES FOR HISTORICAL ESSAYS

First Place

Miriam Augusta Compton

Second Place

Esther Eunice Roberts

THE AMERICAN LAW BOOK PRIZE

Charles Stanley Thompson

THE ALUMNI WEEKLY GOLD MEDAL

Wendell Tipton Burns

THE '89 MEMORIAL PRIZE IN HISTORY

Dorothy Heinemann
Thesis, The Social Parish

THE B'NAI BRITH PRIZE

Louis Goldberg

THE ROLLIN E. CUTTS PRIZE IN SURGERY

John Halgren
Thesis, Free Transplant of Omentum

STUDENTS, 1916-17
THE GRADUATE SCHOOL

ENROLLMENT—383

Fellows and Scholars—115

- Abramson, Earl L., Minneapolis
B.A., Minnesota, 1915 Teaching Fellow in Animal Biology
- Adson, Alfred W., Rochester
B.S., Nebraska, 1912; M.D., Pennsylvania, 1914 Fellow in Surgery on the Mayo Foundation
- Archibald, Alexander, Rochester
M.B.Ch.B., Edinburgh Fellow in Medicine on the Mayo Foundation
- Ashby, Winifred, M., Chicago, Ill.
B.S., Chicago, 1903; M.S., Washington, 1905 Fellow in Bacteriology on the Mayo Foundation
- Barry, Lee W., Minneapolis
M.D., Michigan, 1911 Teaching Fellow in Obstetrics and Gynecology
- Bell, Leo P., Monroe City, Mo.
B.A., Missouri, 1912; M.D., Harvard, 1915 Fellow in Surgery on the Mayo Foundation
- Berkman, David M., Rochester
B.S., Minnesota, 1909; M.D., Rush Medical, 1912 Fellow in Medicine on the Mayo Foundation
- Blackford, John M., Rochester
M.D., Virginia, 1910 Fellow in Medicine on the Mayo Foundation
- Broders, Albert C., Rochester
M.D., Virginia, 1910 Fellow in Pathology on the Mayo Foundation
- Brogden, James C., Wagener, S. C.
B.A., Wafford, 1910; M.D., Maryland, 1914 Fellow in Surgery on the Mayo Foundation
- Buie, Louis A., Georgetown, S. C.
B.A., South Carolina, 1911; M.D., Maryland, 1915 Fellow in Surgery on the Mayo Foundation
- Bumpus, Herman C., Jr., Medford, Mass.
Ph.B., Brown, 1912; M.D., Harvard, 1915 Fellow in Urology on the Mayo Foundation
- Butch, John L., Rochester
B.S., Purdue, 1906; M.D., Johns Hopkins, 1912; M.S., Johns Hopkins, 1915 Fellow in Surgery on the Mayo Foundation
- Cameron, Donald F., Hamilton, Ind.
M.A., Chicago, 1909; M.D., Johns Hopkins, 1913 Teaching Fellow in Surgery
- Campbell, Gladys M., Galesburg, Ill.
B.A., Knox, 1912; B.A., Vassar, 1913; M.A., Minnesota, 1916 Teaching Fellow in History
- Carber, Frank H., Rochester
M.D., Columbia, 1912 Fellow in Medicine on the Mayo Foundation
- Chambers, Clyde R., Coffey, Mo.
B.A., Missouri, 1916 Scholar in Sociology
- Chapman, Royal N., St. Paul
B.A., Minnesota, 1914; M.A., Minnesota, 1915 Teaching Fellow in Animal Biology
- Chase, E. Frank, Rochester
M.D., Minnesota, 1905 Fellow in Rhinology and Laryngology on the Mayo Foundation
- Childs, George H., Minneapolis
B.A., Minnesota, 1914; M.A., Minnesota, 1915 Scholar in Animal Biology
- Colby, Ralph, Minneapolis
B.A., Minnesota, 1916 Scholar in English
- Connor, Charles E., Terre Haute, Ind.
B.A., Indiana, 1910; M.A., Indiana, 1912; M.D., Johns Hopkins, 1914 Teaching Fellow in Ophthalmology and Oto-Laryngology

- Crenshaw, John L., Rochester M.D., Virginia, 1906 Fellow in Urology on the Mayo Foundation
- Crispin, Egerton L., Los Angeles, Cal. Ph.B., Illinois, 1902; M.D., Johns Hopkins, 1906 Fellow in Medicine on the Mayo Foundation
- Crumley, William G., Atlanta, Ga. M.D., Atlanta College of Physicians and Surgeons, 1912 Fellow in Surgery on the Mayo Foundation
- Dederer, Carleton, Rochester B.A., Cornell, 1904; M.D., Columbia, 1907 Fellow in Surgery on the Mayo Foundation
- Desjardines, Albert U., Waterville, Me. M.D., Pennsylvania, 1912 Fellow in Surgery on the Mayo Foundation
- Doe, Charles H., Rochester M.D., Pennsylvania, 1912 Fellow in Surgery on the Mayo Foundation
- Dresser, Myron A., Leonardville, N. Y. B.A., Minnesota, 1916 Scholar in Geology
- Drips, Della G., Rochester B.A., Wisconsin, 1907 Fellow in Pathology on the Mayo Foundation
- Evans, Raymond M., Tompkinsville, Ky. B.S., Vanderbilt, 1911; M.D., Vanderbilt, 1914 Fellow in Surgery on the Mayo Foundation
- Fairbank, Ruth E., Minneapolis B.A., Mount Holyoke, 1914 Scholar in Rhetoric
- Ferrier, Paul A., Rochester B.A., Tarkio (Mo.), 1906; M.D., Pennsylvania, 1911 Fellow in Surgery on the Mayo Foundation
- Fleming, Sybil I., Lakeville B.A., Minnesota, 1915; M.A., Minnesota, 1916 Shevlin Fellow in History
- Forsythe, Samuel T., Canonsburg, Pa. B.A., Washington and Jefferson College, 1906; M.D., Starling Ohio Medical College, 1913 Teaching Fellow in Medicine
- Frary, Louise G., Minneapolis B.A., Oberlin, 1913; M.A., Oberlin, 1914 Teaching Fellow in German
- Frelich, Wilfred P., Stillwater B.A., Minnesota, 1911; M.D., Minnesota, 1913 Fellow in Surgery on the Mayo Foundation
- Fricke, Willa M., Rochester B.A., Columbia, 1908; M.D. Johns Hopkins, 1912 Fellow in Bacteriology on the Mayo Foundation
- Gault, Charles C., West Point, Va. B.A., Randolph-Macon, 1914 Shevlin Fellow in Physiology
- George, Orville A., Hopkins B.A., Minnesota, 1916 Scholar in Mathematics
- Grave, Floyd, Minneapolis B.S., Carleton, 1908; M.D., Johns Hopkins, 1914 Teaching Fellow in Medicine
- Gray, Hazel M., Rochester M.S., Wisconsin, 1915 Fellow in Bacteriology on the Mayo Foundation
- Haefner, Ralph, Stillwater B.A., Minnesota, 1916 Scholar in Comparative Philology
- Hallenbeck, Dorr F., Rochester M.D., Northwestern, 1908 Fellow in Medicine on the Mayo Foundation
- Harrington, Stuart W., Rochester M.D., Pennsylvania, 1913 Fellow in Surgery on the Mayo Foundation
- Hartman, Howard R., Rochester B.S., Michigan, 1912; M.D., Michigan, 1914 Fellow in Surgery on the Mayo Foundation
- Hayes, James M., Brown Valley B.S., Carleton, 1904; M.D., Minnesota, 1910 Fellow in Surgery on the Mayo Foundation
- Heald, Mark M., Canton, Ill. B.A., Oberlin, 1914 Scholar in History

- Heard, Joseph E., Brownsville, Tenn. Fellow in Surgery on the Mayo Foundation
 M.D., Tulane, 1914
- Hedblom, Carl A., Aurora, Neb. Fellow in Surgery on the Mayo Foundation
 B.A., Colorado, 1907; M.D., Harvard, 1911
- Heinemann, Dorothy A., St. Paul Scholar in History
 B.A., Minnesota, 1916
- Hoke, Clarence C., Emmitsburg, Md. Fellow in Surgery on the Mayo Foundation
 B.A., Mt. St. Mary's, 1910; M.A., Maryland, 1912
- Horgan, Edmund J., Fairfax, Va. Fellow in Surgery on the Mayo Foundation
 M.D., George Washington, 1908
- Hunt, Verne C., Rochester Fellow in Surgery on the Mayo Foundation
 B.S., Iowa, 1911; M.D., Rush Medical, 1913
- Jimenez, Enrique, Mexico City Teaching Fellow in Romance Languages
 B.L., National University of Mexico, 1909; L.L.B., National University of
 Mexico, 1914
- Johnson, Arthur M., Minneapolis Teaching Fellow in Botany
 B.A., Minnesota, 1904
- Kenagy, Herbert G., Warrensburg, Mo. Scholar in Economics
 B.S. in Educ., Missouri, 1916; B.A., Missouri, 1916
- King, Clapham P., Rochester Fellow in Surgery on the Mayo Foundation
 M.D., Pennsylvania, 1912
- Kuhlmann, Charles B., Minneapolis Teaching Fellow in History
 B.A., Wisconsin, 1906
- Looney, John J. W., Rochester Fellow in Ophthalmology on the Mayo Foundation
 M.D., Virginia, 1909
- Lowell, Harry M., Rochester Fellow in Surgery on the Mayo Foundation
 M.D., Northwestern, 1914
- Luden, Georgine, Rochester Fellow in Pathology on the Mayo Foundation
 Arzt, Ludwig-Mase, Munich, Germany, 1911; M.D., Ludwig-Mase, Munich,
 Germany, 1912.
- McEvoy, Frank E., Providence, R. I. Fellow in Surgery on the Mayo Foundation
 B.S., Pennsylvania, 1910; M.D., Pennsylvania, 1913
- McMahon, Francis B., Milwaukee, Wis. Fellow in Surgery on the Mayo Foundation
 B.S., Wisconsin, 1911; M.D., Pennsylvania, 1913
- McVay, James R., Trenton, Mo. Fellow in Surgery on the Mayo Foundation
 B.A., Missouri, 1912; M.A., Johns Hopkins, 1913; M.D., Johns Hopkins, 1915
- McWhorter, Golder L., Minneapolis Teaching Fellow in Surgery
 B.S., Chicago, 1911; M.D., Rush Medical, 1913
- Mason, James C., Rochester Fellow in Surgery on the Mayo Foundation
 M.B., Toronto, 1906
- Mark, Arthur E., St. Paul Scholar in Ophthalmology and Oto-Laryngology
 B.S., Minnesota, 1913; M.D., Minnesota, 1915
- Matherly, Walter J., Kirkwood, Mo. Scholar in Economics
 B.A., William Jewel, 1915; M.A., Washington, 1916
- Mattson, William W., Rochester Fellow in Surgery on the Mayo Foundation
 M.D., Pennsylvania, 1914
- Mensing, Edmund H., Milwaukee, Wis. Fellow in Urology on the Mayo Foundation
 M.D., Northwestern, 1909
- Meyerding, Henry W., Rochester Fellow in Orthopedic Surgery on the Mayo Foundation
 B.S., Minnesota, 1907; M.D., Minnesota, 1909
- Miller, Albert, Rochester Fellow in Roentgenology on the Mayo Foundation
 B.A., Indiana, 1888; M.D., Marion-Sims, 1900

- Morris, Ralph E., Cripple Creek, Colo. Teaching Fellow in Medicine
M.D., Colorado, 1902
- Nissen, Dagny E., Minneapolis Scholar in Scandinavian
B.A., Minnesota, 1913
- Ott, William O., New Orleans, La. Fellow in Surgery on the Mayo Foundation
B.S., Louisiana, 1910; M.D., Rush Medical, 1914
- Owens, Esther M., Traby Fellow in Pathology on the Mayo Foundation
B.A., Beloit, 1915
- Payne, Emily H., St. Paul Scholar in Animal Biology
B.S., Macalester, 1915
- Pearce, Nay O., Minneapolis Teaching Fellow in Pediatrics
M.D., Minnesota, 1905
- Pemberton, John J., Rochester Fellow in Surgery on the Mayo Foundation
B.A., North Carolina, 1907; M.D., Pennsylvania, 1911
- Pettibone, Dorothy F., Burlington, Wis. Fellow in Pathology on the Mayo Foundation
B.S., Wisconsin, 1915
- Plum, Frank A., Seattle, Wash. Fellow in Surgery on the Mayo Foundation
B.A., Washington, 1911; M.D., Pennsylvania, 1915
- Plummer, William A., Rochester Fellow in Medicine on the Mayo Foundation
M.D., Northwestern, 1910
- Pollock, Lee W., Rochester Fellow in Medicine on the Mayo Foundation
B.S., Minnesota, 1911; M.D., Minnesota, 1912
- Rankin, Fred W., Baltimore, Md. Fellow in Surgery on the Mayo Foundation
B.A., Davidson, 1905; M.D., Maryland, 1909; M.A., St. John's
- Rapacz, Max P., Argyle Scholar in Politics
B.A., Minnesota, 1916
- Redelings, Leslie H., Marinette, Wis. Fellow in Surgery on the Mayo Foundation
B.S., Northwestern, 1909; M.S., Northwestern, 1910; M.D., Johns Hopkins,
1914
- Reeves, Thaddeus B., Rochester Fellow in Surgery on the Mayo Foundation
B.S., Clemson, 1909; M.D., Virginia, 1914
- Roberts, Morris, St. Paul Albert Howard Scholarship
B.A., Minnesota, 1916
- Rognley, Oswald, Hills Scholar in Physics
B.A., St. Olaf, 1915
- Sanders, Robert L., Rochester Fellow in Surgery on the Mayo Foundation
M.D., Nashville, 1906
- Seeger, Stanley J., Rochester Fellow in Surgery on the Mayo Foundation
M.D., Northwestern, 1911
- Shepard, John H., Coeur d'Alene, Idaho, Fellow in Surgery on the Mayo Foundation
B.S., Chicago, 1902; M.D., Rush Medical, 1904
- Shutter, Arnold W., Minneapolis Teaching Fellow in German
B.A., Yale, 1914; M.A., Minnesota, 1916.
- Stacy, Leda J., Rochester Fellow in Medicine on the Mayo Foundation
M.D., Rush Medical, 1905
- Sullivan, Joseph D., Madison Lake Scholar in Politics
B.A., Minnesota, 1914
- Sutton, George D., Rochester Fellow in Surgery on the Mayo Foundation
B.S., Alma, 1908; M.A., Columbia, 1911; M.D., Michigan, 1915
- Sutton, George E., Prior Lake Fellow in Surgery on the Mayo Foundation
B.S., Minnesota, 1913; M.D., Minnesota, 1914
- Szlapka, Thaddeus L., Phoenixville, Pa. Fellow in Surgery on the Mayo Foundation
B.S., Pennsylvania, 1911; M.D., Pennsylvania, 1914

Taylor, Rood, Minneapolis M.D., Michigan, 1910	Teaching Fellow in Pediatrics
Trout, Karl H., St. Paul B.A., Minnesota, 1916	Scholar in History
Tschida, Rose M., Glen Ullin, N. D. B.A., Minnesota, 1916	Scholar in German
Tucker, William J., St. Louis, Mo. B.A., St. Louis, 1910; M.A., St. Louis, 1912; M.D., St. Louis, 1914	Fellow in Surgery on the Mayo Foundation
Underwood, Ralph S., Minneapolis B.A., Minnesota, 1916	Scholar in Astronomy
Van Roosbroeck, Gustaaf L., St. Paul B.A., Brussels, 1909	Teaching Fellow in Romance Languages
Vik, J. Fritjof, Biwabik B.A., Gustavus Adolphus, 1916	Scholar in Physics
Vinson, Porter P., Rochester B.S., Davidson, 1909; M.A., Maryland, 1910; M.D., Maryland, 1914	Fellow in Medicine on the Mayo Foundation
Walker, James C., Minneapolis M.D., Virginia, 1914	Fellow in Orthopedic Surgery on the Mayo Foundation
Weiss, Freeman, Minneapolis B.S. in Agriculture, Minnesota, 1915	Shevlin Fellow in Horticulture
Weld, Edward H., Rockford, Ill. B.A., Michigan, 1905; M.D., Michigan, 1907	Fellow in Surgery on the Mayo Foundation
Weyrens, Joseph P., Rochester B.S., Minnesota, 1905; M.D., Minnesota, 1907	Fellow in Surgery on the Mayo Foundation
Willius, Frederick A., St. Paul B.S., Minnesota, 1912; M.D., Minnesota, 1914	Fellow in Medicine on the Mayo Foundation
Wilson, Ruth, Stillwater B.A., Minnesota, 1916	1890 Scholarship
Woltmann, Henry W., St. Paul B.S. Minnesota, 1911; M.D., Minnesota, 1913	Teaching Fellow in Nervous and Mental Diseases
Woodward, Marion, Minneapolis B.A., Wells, 1915	Scholar in Romance Languages

Other Graduate Students—268

Aamodt, Olaf S., St. Paul	Plant Pathology
Adair, Fred L., Minneapolis B.S., Minnesota, 1898; M.D., Rush Medical, 1901	Anatomy
Adams, Arlon T., St. Paul B.A., Wesleyan, 1903; M.A., Wesleyan, 1904	Comparative Philology
Adams, Effie A., Luverne	Latin
Albritton, Evrett C., Mayfield, Ky. B.A., Missouri, 1916	Anatomy
Aldrich, Henry R., Providencé, R. I. B.S., Massachusetts Institute of Technology, 1914	Economic Geology
Alley, Albert G., Minneapolis M.D., Minnesota, 1905	Pediatrics
Alterton, Margaret, Minneapolis B.S., Teacher's College, Columbia, 1906	English
Anderson, Arthur C., St. Paul B.A., Hamline, 1916	English
Anderson, Arthur L., St. Paul B.S. in Agr., Minnesota, 1916	Dairy Husbandry

Anderson, Charles A., Hastings B.S. in Agr., Minnesota, 1916	Agricultural Economics
Anderson, Grace H., Minneapolis B.A., Cornell, 1912	English
Anderson, Herman F., St. Hilaire B.A., Minnesota, 1914	Education
Arny, Albert C., St. Paul B.S. in Agr., Minnesota, 1909	Farm Crops
Arthur, Mary G., St. Paul	Education
Asher, Henry T., Bellaire, Ohio B.A., Indiana, 1914	English
Atwood, Harry E., Keeseville, N. Y. B.A., Dartmouth, 1913; M.A., Harvard, 1914	Romance Languages
Baillif, Matilda V., Minneapolis B.A., Minneapolis, 1909	Education
Bakken, Herman E., Wautoma, Wis. B.A., St. Olaf, 1915	Industrial Chemistry
Barnum, George S., Lockport, N. Y. B.A., Cornell, 1911; M.A., Minnesota, 1916	French
Barton, Francis B., Minneapolis B.A., Williams, 1907; Docteur de l'Université de Paris, 1911	Romance Languages
Barton, J. Wesley, Minneapolis B.S. in Educ., Utah, 1915	Psychology
Bausman, Clarence C., Minneapolis B.A., Minnesota, 1916	Botany
Bean, Cecil C., Chattanooga, Tenn. Ph.B., Ohio, 1910; B.Ped., Ohio, 1911; M.A., Harvard, 1916	English
Beard, Margaret K., Minneapolis B.A., Vassar, 1916	Sociology
Beardsley, Ione E., New Rockford, N. D.	English
Bennett, Emmett L., Minneapolis B.A., Kansas, 1913; M.A., Kansas, 1914	Political Science
Benton, Alva H., St. Paul B.S. in Agr., Ohio State College, 1912; M.S., Pennsylvania State College, 1913	Economics
Benton, Anne G., Minneapolis B.A., Wellesley, 1908	Bacteriology
Bergman, Herbert F., Minneapolis B.S., Kansas Agricultural College, 1905; M.S., Minnesota, 1915	Botany
Binger, Henry E., St. Paul M.D., Minnesota, 1910	Eye, Ear, Nose, and Throat
Binzel, Alma L., Beaver Dam, Wis. B.S., Teacher's College, Columbia, 1916	Education
Bisby, Guy R., St. Paul B.S., South Dakota State College, 1912	Plant Pathology
Bissell, O. Lucetta, Minneapolis B.A., Wisconsin, 1909	History
Blake, Helen L., Fargo, N. D. B.A., Fargo, 1913	English
Boquist, Harold S., Minneapolis B.A., Minnesota, 1914	Psychology
Boraas, Julius, Northfield B.L., Minnesota, 1895; M.L., Minnesota, 1898	Education

Bosserman, Homer L., Minneapolis B.A., Wittenberg, 1910; Certificate of Graduation, Chicago Luther Seminary, 1910	Sociology
Boutelle, Anna, Lake City B.A., Minnesota, 1904; M.A., Minnesota, 1914	History
Bowler, Edna B., Minneapolis B.A., Minnesota, 1907	History
Braden, Kenneth J., Duluth B.S. in Forestry, Minnesota, 1914	Forestry
Breden, Peter L., Hills B.A. in Educ., Minnesota, 1916	Education
Bredesen, Inga M., Minneapolis B.A., Wisconsin, 1914	Norwegian
Bren, Bozotech C., Hopkins B.S., Chicago, 1916	Chemistry
Broderick, Thomas M., Minneapolis B.A., Minnesota, 1913; M.S., Wisconsin, 1914	Geology
Brossard, Edgar B., Logan, Utah B.S. in Agr., Utah Agr. College, 1911	Farm Management
Brown, Margery L., Minneapolis B.A., Radcliffe, 1916	Romance Languages
Brown, Marion D., Seattle, Wash. B.A., Washington, 1916	Education
Brusven, Amy L., Minneapolis B.A., Minnesota, 1916	English
Burgess, Harold O., St. Paul B.A., Wabash, 1908; M.A., Minnesota, 1913	Latin
Bushnell, John W., Cedar Rapids, Iowa B.S. in Agr., Missouri, 1916	Horticulture
Cade, Arthur C., Wakefield, Mass. B.S., Worcester Polytechnic Institute, 1915	Chemistry
Callaway, Roy S., Minneapolis B.S. in Chem. Eng., Minnesota, 1911	Chemistry
Camp, Walter E., Minneapolis B.A., Missouri, 1912; M.A., Minnesota, 1915	Ophthalmology and Oto-Laryngology
Carlson, Aldena, Minneapolis B.A. in Educ., Minnesota, 1915	English
Carlson, C. Arthur, Minneapolis B.A., Minnesota, 1910	Scandinavian
Carr, Marjorie, Chillicothe, Ill. B.A., Knox, 1913	History
Carter, Mildred, St. Paul B.A., Grinnell, 1909	English
Carter, Roscoe H., Whiting, Iowa B.A., Morningside, 1912; M.S., Iowa, 1914	Chemistry
Cassell, Rebecca, Excelsior B.A., Minnesota, 1916	Sociology
Cates, Helen M., Minneapolis B.A., Minnesota, 1913	
Cedergren, Edwin A., Lindstrom B.A., South Dakota, 1905	Education
Chapin, Alice C., Eden, Mich. B.S., Pennsylvania, 1916	Education

Chapman, James E., St. Paul B.A., Carleton, 1910; M.S., Minnesota, 1915	Soils
Chesnutt, Jay L., Minneapolis B.A., Northwestern, 1912	English
Chien, Chia H., China M.S., School of Mines, Columbia, 1916	Geology
Chittick, Martin B., Stuart, Neb. B.A., Nebraska, 1916; Ph.M.G., Nebraska, 1916	Chemistry
Cleland, Spencer B., Waseca B.S. in Agr., Minnesota, 1914	Farm Management
Coburn, Nelson F., Minneapolis B.A., Harvard, 1911; M.A., Harvard, 1912	Romance Languages
Cohen, Lillian, Minneapolis B.S., Minnesota, 1900; M.S., Minnesota, 1901; Ph.D., Minnesota, 1913	
Colby, Elbridge, Minneapolis B.A., Columbia, 1912; M.A., Columbia, 1913	History
Cole, Wyman C. C., Minneapolis B.S., Minnesota, 1916	Anatomy
Cooper, Hugh M., Forest Lake, Iowa B.Ped., Drake, 1907; B.S., Drake, 1909	Psychology
Corcoran, John J., St. Paul	Education
Cummings, Joseph E., Mankato B.A. in Educ., Minnesota	Economics
Cunningham, Orin D., Twin Bridges, Mont. B.S., Northwestern, 1914; M.A., Montana, 1915	Physical Chemistry
Curtis, Florence R., Ogdensburg, N. Y. B.A., Illinois, 1911; B.L.S., New York State Library School, 1911	Sociology and Anthropology
Dennison, Jackson B., Minneapolis B.S., Lenox, 1912; M.A., Wisconsin, 1915	Economics
Diehl, Harold S., Clear Spring, Md. B.A., Pennsylvania, 1912	Bacteriology
Doherty, Everett H., Minneapolis B.S., Earlham, 1911	Agricultural Chemistry
Dooley, Lester W., Minneapolis B.A., Upper Iowa, 1910	Education
Dorsey, Jean M., St. Paul B.S. in Home Econ., Minnesota, 1913	Home Economics
Dosdall, Louise T., St. Paul B.A., Minnesota, 1916	Botany
Downs, Lynwood G., Minneapolis B.A., Cornell, 1914; M.A., Cornell, 1915	German
Erdmann, Clara A., Minneapolis B.A., Minnesota, 1915	Botany
Farley, Donald C., Minneapolis B.S., Hamline, 1916	Chemistry
Fitch, Harry N., Napoleon, N. D. B.A., North Dakota, 1915	Education
Fleenor, Leonard A., Hopkins B.A., Indiana, 1915	Economics
Folsom, Donald, Minneapolis B.A., Nebraska, 1912; M.A., Minnesota, 1914	Botany
Fong, Yue C., China B.S., Nanyang, 1912	Electrical Engineering

Foote, Paul D., Minneapolis B.A., Western Reserve, 1909; M.A., Western Reserve, 1911	Physics
Franzen, Raymond H., St. Paul	Philosophy and Psychology
Frelin, Jules T., Minneapolis B.A., Minnesota, 1905	Romance Languages
Freund, Camille E., St. Paul B.A., Radcliffe, 1908; M.A., Minnesota, 1914	English
Fuller, Alice H., St. Paul B.A., Smith, 1915	Philosophy
Galin, Peter, Minneapolis B.Ped., Valparaiso, 1915	German
Garber, Ralph J., Gibson City, Ill. B.S., Illinois, 1912	Farm Crops
Garlough, Leslie N., White Bear B.A., Minnesota, 1916	Hematology
George, William O., Minneapolis B. S., Lombard, 1916	Geology
Gillilan, John C., St. Paul B.S. in Agr., Minnesota, 1916	Economics
Goude, Albert G., Minneapolis B.A., Union, 1911	Rhetoric
Graham, Samuel A., Minneapolis B.S. in For., Minnesota, 1914; M.F., Cornell, 1916	Entomology
Granfield, Thomas H., Pittsfield, Mass. B.A., Minnesota, 1914	Metallography
Graves, Mrs. Richard, Minneapolis B.A., Minnesota, 1908; M.A., Minnesota, 1909	Bacteriology
Guha, Upendranarayan, Calcutta, India L.C.P. and S., College of Physicians and Surgeons, Bengal, 1916	Education
Gullette, Albert, Minneapolis B.A., Minnesota, 1902	Agricultural Chemistry
Gurjar, Anant M., Kolhapur City, India B.S., Utah Agricultural College, 1911	Economics
Hall, Howard L. Minneapolis B.A., Minnesota, 1915; M.A., Minnesota, 1916	Chemistry
Harder, Edmund C., Minneapolis B.A., Wisconsin, 1905; Ph.D., Wisconsin, 1915	Education
Harlan, Charles L., Minneapolis B.A., Indiana, 1912; M.A., Illinois, 1915	Soils
Harmer, Paul M., Northfield B.S., Carleton, 1911; M.S., Minnesota, 1915	History
Hedger, George G., Salt Lake City, Utah B.A., Utah, 1906	English
Hegg, Clara E., Minneapolis B.L., Wisconsin, 1898	Zoology
Heimbürger, Harry V. B.A., De Pauw, 1911; M.A., Illinois, 1915	English
Helms, Lillian, Fulton, Mo. B.A., Carleton, 1909	Romance Languages
Henriquez-Ureña, Pedro, Santo Domingo City, Dominican Republic B.L., Santo Domingo, 1901; LL.B., National Univ. of Mexico, 1914	

Hertig, Marshall, Minneapolis B.S., Minnesota, 1916	Economic Zoology
Hewett, Maurice W., Minneapolis B.S., Minnesota, 1913; C.E., Minnesota, 1914	Structural Engineering
Hillard, Homer E., St. Paul B.L., Ohio Wesleyan, 1905	Chemistry
Hodgson, Robert E., St. Paul B.S. in Agr., Minnesota, 1916	Farm Management
Hoerner, Robert E., St. Paul B.S., in Agr., Oregon State Agricultural College, 1916	Plant Pathology
Holm, George E., St. Paul B.S., Carleton, 1914; M.S., Minnesota, 1916	Agricultural Chemistry
Holzinger, Karl J., Winona B.A., Minnesota, 1915	Mathematics
Huchthausen, John L. A., Minneapolis Candidate Rev. Minister, Concordia Theological Seminary, 1892; M.A., Minnesota, 1916	German
Huenekens, Edgar J., Minneapolis B.A., Marquette, 1904; M.D., Marquette, 1908	Bacteriology
Humphreys, Allan S., Springfield, Mo. B.S., Drury, 1910	Chemistry
Hurley, A. Cleo, Minneapolis B.A., Iowa State Teachers' College, 1913	Latin
Inglis, Rewey Belle, Minneapolis B.A., Minnesota, 1908	English
Janssen, Theodore M., Bellevue, Iowa B.A., Wartburg, 1905	German
Jensen, Jens P., Minneapolis B.A., Dakota Wesleyan, 1913	Economics
Johnson, Agnes B. (Mrs.), Minneapolis B.A., Minnesota, 1909; B.S. in Home Econ., Minnesota, 1910	Education
Johnson, John William, Minneapolis B.A., Carleton, 1898	Physics
Johnsrud, Alfred L., Spring Grove B.A., Minnesota, 1916	English
Joyce, Carolyn, Minneapolis B.A., Wells, 1908	Organic Chemistry
Joyce, Floyd E., Fort Dodge, Iowa B.A., Iowa, 1912	Sociology
Kahn, Alfred H., St. Paul B.A., Yale, 1908; Rabbi, Jewish Theological Seminary, 1915	Philosophy
Kantor, Helen Rich (Mrs.), Minneapolis B.A., Minnesota, 1916	Philosophy
Kantor, Jacob R., Minneapolis Ph.B., Chicago, 1914	Philosophy
Kerlanski, Samuel Z., St. Cloud B.A. in Educ., Minnesota, 1915	English
Kierzek, John, Minneapolis B.A., Carleton, 1913	Anatomy
Kittelson, John A., Minneapolis B.S., Beloit, 1913	German
Koenig, Alfred E., Minneapolis B.A., Redfield, 1906; M.A., Minnesota, 1910	German

Koerber, Paul E., Minneapolis M.D., Nebraska, 1896	Pediatrics
Kraushaar, William F., Aberdeen, S. D. B.A., Wartburg, 1905	German
Kretzmann, Paul E., St. Paul Concordia College, 1902; M.A., Minnesota, 1913; Ph.D., Minnesota, 1915	English
Laate, Gurid, Minneapolis B.S. in Home Econ., Minnesota, 1910	Home Economics
Lambert, Edwin M., Minneapolis M.E., Minnesota, 1909	
Lauer, Walter M., Thomasville, Pa. B.A., Ursinus, 1913	Chemistry
Leet, Clara B., Conneaut, Ohio B.A., Allegheny, 1905	History
Leland, Ray L., Minneapolis B.S., Teachers' College, Columbia, 1911	Education
Levine, Moses N., St. Paul B.S., Minnesota, 1915; M.S., Minnesota, 1916	Phytopathology
Lobeck, John E., St. Paul B.A., Augsburg Seminary, 1889; Candidate Theology, Augsburg Seminary, 1913	Scandinavian
Lofffield, J. V. Gorm, Minneapolis B.A., Minnesota, 1915	Botany
Long, Frances L., Madison, Neb. B.A., Minnesota, 1906; B.S., Minnesota, 1906; M.A., Minnesota, 1913	Botany
Lowell, Frances E., Minneapolis B.A., Minnesota, 1915	Psychology
Lowry, Ellsworth, Minneapolis B.A., Texas, 1909; M.A., Columbia, 1913	Educational Administration
Lucas, Harriet M., Minneapolis B.A., Minnesota, 1915	German
Lund, Barbara L., Minneapolis Ph.B., Hamline, 1911	Animal Biology
Lyle, Marie, Minneapolis B.A., Minnesota, 1911; M.A., Minnesota, 1912	English
McKinley, J. Charnley, Minneapolis B.S., Minnesota, 1915	Anatomy
McNally, Phillip T., Dunlap, Iowa B.A., Iowa, 1915; M.A., Iowa, 1916	
Maguire, Helen F., Mitchell, S. D. B.L., Ames, 1895	Education
Malcomson, Alden W., LeRoy B.S., Minnesota, 1916	Animal Husbandry
Marcovitch, Simon, Syracuse, N. Y. B.S., Cornell, 1914; M.S., Minnesota, 1916	Entomology
Markus, Benjamin, Keewatin	Food Chemistry
Marshall, Walter W., Sugar Grove, Ohio B.A., Ohio, 1913; M.A., Rice Institute, 1916	Animal Biology
Martin, Edwin R., Wayland, Iowa B.S. in E.E., Iowa, 1911	
Matt, C. David, Minneapolis B.A., Pennsylvania, 1909; Rabbi, Jewish Theological Seminary, 1913	
May, Grace J. L., St. Paul B.A., Minnesota, 1904	English

Miller, Guy C., Winnebago B.A., Leander Clark, 1914	Education
Mills, William, Minneapolis B.A., Augsburg, 1900; B.D., Augsburg Theological Seminary, 1904	Greek
Moersch, Fred P., Minneapolis B.S., Minnesota, 1911; M.D., Minnesota, 1913	Neuropathology
Moore, James E., Minneapolis B.S., Upper Iowa, 1906	Education
Morehead, Oliver J., Minneapolis B.A., Dakota Wesleyan, 1909	Education
Morris, Emily E., Minneapolis B.A., Minnesota, 1916	English
Nordberg, Carl E. (Rev.), Minneapolis B.A., Augsburg Seminary, 1912	Scandinavian
Norris, Edgar H., Minneapolis B.S., Minnesota, 1915; M.A., Minnesota, 1916	Anatomy
Notestein, Frank, Laramie, Wyo. Ph.B., Wooster, 1908; M.F., Yale Forestry School, 1910	Geology
Oberg, Antoinette B. (Mrs.), Minneapolis B.A., Oregon, 1907	English
Oberlin, Mary L., Minneapolis B.A., Ohio, 1909	Sociology
O'Brien, Rupert D., Duluth B.A., Minnesota, 1915	Economics
Oedvin, Ragnvald, Northfield B.A., St. Olaf, 1916	History
Oredalen, Mary, Kenyon B.A., Minnesota, 1911	Sociology
Orton, Wanda N., Minneapolis B.A., Minnesota, 1915	Education
Park, Charles R., Tiffin, Ohio B.A., Cornell, 1916	Chemistry
Parker, John H., St. Paul B.S. in Agr., Minnesota, 1913; M.S., Cornell, 1916	Plant Breeding
Pearson, Albert E., Long Prairie B.A., Minnesota, 1913	Education
Pease, Vinnie A., Tacoma, Wash. B.S., Puget Sound, 1907; M.S., Washington, 1916	Botany
Peck, Francis W., St. Paul B.S. in Agr., Minnesota, 1912	Farm Management
Petersen, William E., Pine City B.S. in Agr., Minnesota, 1916	Dairy and Animal Husbandry
Peterson, Anna C., Frost B.A., Minnesota, 1916	Chemistry
Picha, Benjamin, New Prague B.S. in Agr., Minnesota, 1916	General Physiology
Piemeisel, Frank J., Jordan B.S. in Agr., Minnesota, 1914; M.S., Minnesota, 1915	Plant Pathology
Pierce, Ernest B., Minneapolis B.A., Minnesota, 1904	Education
Pillsbury, W. Howard, St. Paul B.A., Carleton, 1910	Education

Powers, Samuel R., Minneapolis B.A., Illinois, 1912	Education
Priester, George C., Minneapolis B.E., Iowa, 1910; M.S., Minnesota, 1916	Mathematics
Rasmussen, Elvira, Minneapolis B.S. in Agr., North Dakota, 1916	English
Raymond, Eleanor F., Minneapolis B.Ph., Wisconsin, 1914	History
Reichert, S., Joseph, Osgood, Ohio B.A., Miami, 1915	Chemistry
Reker, Gladys L., Minneapolis B.A., Minnesota, 1917	Anthropology
Reque, A. Dikka, Decorah, Iowa B.A., Minnesota, 1910	Norwegian
Richards, Grace, Minneapolis B.A. in Educ., Minnesota, 1910	English
Ringoen, Adolph R., Minneapolis B.A., Iowa, 1909; M.A., Minnesota, 1913	Animal Biology
Ringstrom, Hugo, Center City B.A., Minnesota, 1914; B.S. in Chem., Minnesota, 1915	Chemistry
Rivet, Sara T., Minneapolis B.A., Minnesota, 1915	Botany
Rogness, Tina R., Minneapolis B.A., St. Olaf, 1914	History
Rost, Clayton O., St. Paul B.S., Nebraska, 1911; M.A., Nebraska, 1912	Soils
Roth, Ernest G., Lamberton B.S. in Agr., Minnesota, 1916	Soils
Rounds, Fred G., St. Paul B.S. in Arch., Illinois, 1916	Architecture
Rustad, Arthur L., Minneapolis B.A., St. Olaf, 1915	Sociology
Rutledge, Lloyd H., Minneapolis B.A., Missouri, 1915; M.A., Minnesota, 1916	Anatomy
Rysgaard, Jens M., St. Paul B.A., North Dakota, 1903	Physics
Salyer, Sandford M., Cleveland, Ohio B.A., Amherst, 1904; M.A., Harvard, 1914	
Sato, Shinjiro, Tokushima, Japan B.S., State College of Washington, 1915	Agricultural Chemistry
Schaffnit, Dorothy J., Minneapolis B.A., Minnesota, 1916	German
Schlutz Frederic W., Minneapolis B.A., Wartburg, 1898; M.D., Maryland, 1902	Organic Chemistry
Scott, William E., Two Harbors B.S., Macalester, 1912	Economics
Sellin, Johan T., Minneapolis B.A., Augustana, 1915; M.A., Pennsylvania, 1916	Scandinavian
Serum, Mark M., Jackson	Agricultural Economics
Severson, Samuel O., Minneapolis B.A., Minnesota, 1903; M.A., Minnesota, 1904	Psychology
Seyfried, Lillian M., St. Paul B.A., Minnesota, 1915	Organic Chemistry

Shaw, William M., St. Paul B.S., Minnesota, 1916	Soils
Shenchon, Eleanor N., Minneapolis B.A., Minnesota, 1914	French
Shortridge, Wilson P., Minneapolis B.A., Indiana, 1907; M.A., Wisconsin, 1911	History
Sirich, Edward H., Baltimore, Md. B.A., Johns Hopkins, 1906; Ph.D., Johns Hopkins, 1914	Romance Languages
Sister Eugenia Maginnis, St. Paul B.A., St. Catherine, 1915	Latin
Sister M. Aquinas Norton, Rochester B.A., St. Teresa, 1914	History
Sister Mary Eugene Woolsey, St. Paul B.A., St. Catherine, 1916	English
Skagerberg, Rutchter, Cloquet B.S., Minnesota, 1915; E.E., Minnesota, 1916	Electrical Engineering
Smart, Thomas J., Minneapolis B.A. in Educ., Minnesota, 1914	Education
Smoyer, Frank, Minneapolis B.A., Yale, 1907	
Sontag, Harold H., Heron Lake B.A. in Educ., Minnesota, 1916	Education
Soule, Harold W., Hingham, Mass. B.A., Colby, 1904; B.A., Oxford, 1908; M.A., Harvard, 1914	
Spriestersbach, David O., St. Paul B.S. in Chem., Minnesota, 1912; M.S., Minnesota, 1915	Organic Chemistry
Stallard, Harvey, Minneapolis Ph.B., Ottawa, 1909	Botany
Stark, Mary R., Boston, Mass. R.A., Brown, 1900; M.A., Brown, 1903	Education
Sternberg, Woldemar M., Minneapolis B.S. in Chem. Eng., Institute of Technology, Petrograd, Russia, 1908	Chemistry
Stewart, Chester A., Minneapolis B.A., Missouri, 1914; M.A. Minnesota, 1915	Anatomy
Sweeney, Anna T., Roch�ester B.A., St. Teresa, 1916	Latin
Sweeney, J. Gordon, Jamaica, N. Y. B.A., Columbia, 1915	Chemistry
Swenson, Egbert G., Minneapolis B.A., Gustavus Adolphus, 1913	
Swenson, Severn H., Minneapolis	Political Science
Tapley, William T., St. Paul B.S., New Hampshire, 1916	Horticulture
Thiel, George A., Staples	Animal Biology
Thuma, Ross A., St. Paul B.S., Otterbein, 1911; M.S., Minnesota, 1915	Biochemistry
Toomey, Clare, St. Paul B.A., Minnesota, 1917 (mid-sem.)	Philosophy
Tschida, Katherine A., St. Paul B.A., Minnesota, 1912	German
Tyndale, Elsie H. (Mrs.), Salt Lake City, Utah Ph.B., Chicago, 1901; M.A., Utah, 1911	

Ullereng, Tony, Luverne B.A., St. Olaf, 1915	Scandinavian
Valleau, William D., St Paul B.S., Minnesota, 1913	Horticulture
Vaughan, Gladys E., Wolfville, N. S., Canada B.A., Mount Allison, 1910; M.A., Mount Allison, 1911	
Vaughn, Florian, Shelbina, Mo. B.A., Missouri, 1915	Anatomy
Wallace, Warren L., Minneapolis B.A., Michigan, 1907	History
Ward, Percy A., Zumbrota B.S., Minnesota, 1914; M.D., Minnesota, 1916	Bacteriology
Wennerholm, Martha C., Minneapolis B.A., Minnesota, 1916	Greek
Wentz, Anna, Minneapolis B.A., Minnesota, 1911	Botany
Wernlund, Christian J., St. Paul Ph.B., Hamline, 1913; M.S., Northwestern, 1916	Chemistry
Whitney, Helen A., Minneapolis B.A., Minnesota, 1900; M.A., Minnesota, 1909	Rhetoric
Whitney, Julia M., Dunkirk, N. Y. B.A., Vassar, 1914	Education
Wilson, Hedwig Sutter (Mrs.), Minneapolis B.S. in Chem., Minnesota, 1913	Chemistry
Wilson, Ida L., Minneapolis B.A., Minnesota, 1916	Botany
Winslow, John R., Carthage, Iowa B.S., Earlham, 1915	Biochemistry
Witte, Wilbert L., Cottage Grove, Wis. B.A., Northwestern, 1916	Sociology
Wolf, Edwin F., St. Paul B.S., Central Holiness University, 1911	Entomology
Wright, Vera L., Minneapolis B.A., Minnesota, 1914; M.A., Minnesota, 1915	Mathematics
Wuertz, Alexander J., Lincoln, Neb. B.A., Nebraska, 1915; M.A., Nebraska, 1916	Biochemistry
Zoodsma, Claus S., Ashton, S. D. B.C.S., South Dakota Wesleyan, 1915	Economics

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

SENIORS—281

Ackerson, Eugene J., Elbow Lake	Appel, Reola, St. Paul
Akins, Ethel, Mayer	Ask, Corinne, Minneapolis
Albrecht, Gladys, Minneapolis	Bank, Lena, Minneapolis
Albrecht, Marguerite F., St. Paul	Barker, Georgia M., Menomonie, Wis.
Allen, Florence C., Hector	Barker, Helen, Minneapolis
Anderson, Esther E., Willmar	Bau, Chingling, China
Anderson, Ruth A., Minneapolis	Bayard, Robert P., St. Paul
Anderson, Ruth E., Willmar	Benepe, Robert S., St. Paul
Anderson, Walfred, Dalbo	Bergtold, Louis V., Duluth
Andrews, Walter A., Hutchinson	Bernhardt, Genevieve A., Minneapolis
Anundsen, Harriet G., Detroit	Berry, Harriet M., Minneapolis

- Blanchard, Myrtle R., Minneapolis
 Bolt, Emma, St. Paul
 Bomsta, Harriet, Vancouver Heights,
 B. C., Canada
 Bonniwell, Harlow H., Hutchinson
 Bothne, Dikka J., Minneapolis
 Bowden, George K., Spring Valley
 Bowe, Regina M., Waseca
 Boyle, James D., Stillwater
 Brande, Florence E., Minneapolis
 Branton, Alloys F., Minneapolis
 Brimeyer, Helen, Slayton
 Broker, Florence L., Minneapolis
 Brown, Mary C., Stephen
 Brunsdale, Anna E., Portland, N. D.
 Buswell, J. Oliver, Jr., Minneapolis
 Byrne, Electa M., Wells
 Byron, Kathryn V., Janesville
 Callister, Gladys V., Skyberg
 Cammack, Margaret, St. Paul
 Cant, Howard B., Duluth
 Carlson, S. Elizabeth, Minneapolis
 Carroll, Ruth, Minot, N. D.
 Cederstrand, Cora A., Minneapolis
 Chamberlain, Mildred, Minneapolis
 Christofferson, Halbert C., Racine
 Clark, James W., Pine City
 Claussen, Clara M., St. Paul
 Clefton, Herbert, Owatonna
 Colby, M. Ruth, Minneapolis
 Cole, Charles W., Minneapolis
 Conners, Adelaide B., Chippewa Falls,
 Wis.
 Cook, M. Genevieve, Minneapolis
 Cooke, Laura C., Minneapolis
 Cotton, Margaret, Minneapolis
 Crandall, Susan, Minneapolis
 Croft, Elmer J., Minneapolis
 Crosby, Ethel M., St. Paul
 Cross, Hollis A., Minneapolis
 Dahlby, Albert J., St. Paul
 Dale, Florence V., Renville
 Daly, Walter A., St. Paul
 Denny, Alice B., Minneapolis
 Dix, Paul B., Minneapolis
 Dixon, Sara M., Buffalo
 Doyle, Amelia M., St. Paul
 Dumas, Romeo C., Minneapolis
 Elkin, Marguerite, Mayville, N. D.
 Erickson, Julia L., Minneapolis
 Erlandson, Edwin G., Detroit
 Esswein, Mildred M., Minneapolis
 Estrem, Thomas S., Atwater
 Ewert, Elizabeth C., Mountain Lake
 Falstad, Constance, Duluth
 Fargo, Lucy L., Redfield, S. D.
 Feldhammer, Elsa, Minneapolis
 Fenstermacher, Louise, Minneapolis
 Ferguson, Grace E., Minneapolis
 Finley, Isabel C., Janesville
 Fitzgerald, Vincent, Duluth
 Foskett, Dorothy E., Shenandoah, Iowa
 Francis, Oliver T., Renville
 Fulton, Alice M., Minneapolis
 Gale, Samuel C., Minneapolis
 Gallogly, Marguerite, Graceville
 Ganssle, Anna L., Minneapolis
 Garrett, Nellie A., St. Paul
 Garrigues, Helen, Minneapolis
 Gengnagel, Alice, Parkers Prairie
 Genter, Harold C., Minneapolis
 Gibson, A. Isabel, St. Paul
 Giles, Thelma A., Minneapolis
 Gillespie, Paul S., Anoka
 Goodner, Dorothy, Rocky Ford, Colo.
 Grace, Alonzo, Minneapolis
 Graham, Margaret, St. Paul
 Gray, Marion, Minneapolis
 Greig, John E., Estherville, Iowa
 Griffin, Herbert M., Minneapolis
 Grimm, Natalia, Lamberton
 Groth, Cora M., Saint Ansgar, Iowa
 Groves, Vivien H., Minneapolis
 Hagstrom, Mabel L., St. Paul
 Halloran, Mollie W., Minneapolis
 Hanson, Eugene B., Minneapolis
 Harker, Alice, Minneapolis
 Harker, Maybelle E., Duluth
 Hartigan, John E., St. Paul
 Hasberg, Dagmar, Minneapolis
 Hauser, Victor P., St. Paul
 Hayward, Herman E., Minneapolis
 Healy, Kenneth C., Mankato
 Heilbron, Bertha L., St. Paul
 Hense, Esther M., Aitkin
 Hill, M. Ruth, Barnum
 Hineline, Margaret A., Minneapolis
 Hodgdon, Almeda A., Bird Island
 Hoff, Edith E., Minneapolis
 Hogan, Marie C., Minneapolis
 Holen, Norman A., Minneapolis
 Holt, Hazel E., Rochester
 Horgan, Mamie T., Blue Earth
 Horne, Fyvie R., Luverne
 Hoskins, Ethel L., Minneapolis
 Hostetler, Roberta B., Minneapolis
 Howe, L. Frances, Minneapolis
 Hubbell, Edna L., St. Paul
 Hurd, Vernon K., Minneapolis
 Hurley, Frank W., St. Paul
 Huston, Mattie W., Minneapolis
 Irwin, Frances P., Minneapolis
 Jack, Helen L., Minneapolis
 Jacobs, Anna, Des Moines, Iowa
 Jacobs, Judith, Minneapolis
 Jacobsen, Gertrude A., Minneapolis
 Jechlinger, Frances, St. Paul
 Jenkins, Doris P., Minneapolis

- Johnson, Albert W., Minneapolis
 Johnson, Beatrice E., St. Peter
 Johnson, Carl W., St. Paul
 Johnson, Willis E., Aberdeen, S. D.
 Jones, Edith B., St. Paul
 Kelly, Margaret H., St. Paul
 Kelly, Olaf R., Franklin
 Kernan, James W., Two Harbors
 Klaffke, Carl H., Cresco, Iowa
 Kleinschmidt, Arthur A., Sleepy Eye
 Kramer, Charles S., Avoca
 Kuhrmeyer, Henry, St. Paul
 Kurvinen, Florence H., Ely
 Kvam, Julien A. S., Rice Lake, Wis.
 Lammers, Mildred H., Minneapolis
 Landrock, George M., Minneapolis
 Larson, Beatrice, Mora
 Larson, N. Amanda, St. Paul
 Larson, Vernie E., Duluth
 Leavitt, Helen H., Minneapolis
 Lofton, Joseph B., Washington, D. C.
 London, Leah, Minneapolis
 Lowry, Bessie C., Minneapolis
 Lynch, Elinor, St. Paul
 Lynch, Rachael, St. Paul
 McBride, H. Esther, Minneapolis
 McDonald, A. Margaret, Minneapolis
 McGrath, Myrtle, Minneapolis
 McHale, Florence, Minneapolis
 MacKenzie, Clara L., Lake City
 McLachlin, Irma E., Hunter, N. D.
 McLeod, Howard L., St. Paul
 McPeck, Gladys I., Forest Lake
 Madsen, Lea, Minneapolis
 Maier, M. Agnes, Minneapolis
 Marshall, Lawrence W., Glencoe
 Martin, Dorothy J., Minneapolis
 Mekeel, Mildred J., Minneapolis
 Merrill, Gordon E., Minneapolis
 Michell, Helene M., Ortonville
 Miller, Frank L., Buffalo, N. D.
 Mills, J. Hachenberg, Decatur, Ill.
 Minor, Harriet E., Litchfield
 Mitchell, Edith D., DeSmet, S. D.
 Moen, Lulu, Flandreau, S. D.
 Moorhead, Martha, Minneapolis
 Mosher, Mary L., Excelsior
 Mulholland, Stanley C., Rochester
 Nay, Lola M., St. Paul
 Nelson, Charles T., Minneapolis
 Newsome, Margaret A., St. Paul
 Nicol, Helen L., Minneapolis
 Nippert, Louise F., St. Paul
 Nissen, Ingerd, Minneapolis
 Noble, Lucile W., Minneapolis
 Nordgarden, Clara, Minneapolis
 Notestein, James S., Huron, S. D.
 O'Connor, Mildred, Ironwood, Mich.
 Odell, Elizabeth, St. Paul
 Olds, Eleanor, Minneapolis
 Orsinger, Gunther, White Bear
 Ostergren, Frances H., St. Paul
 Oviatt, Philip M., Huron, S. D.
 Owen, Marguerite, Minneapolis
 Packard, Clayton P., Redfield, S. D.
 Pearson, Oscar P., Minneapolis
 Pederson, Ann G., Minneapolis
 Pederson, O. Edward, Minneapolis
 Peter, Esther C., St. Paul
 Petersen, Clara V., Minneapolis
 Petrich, Ida B., Plainview
 Petrich, Otto E., Glencoe
 Pfeiffer, Omar, Minneapolis
 Pierce, Elizabeth B., Minneapolis
 Pierce, Helen M., Minneapolis
 Piper, Gertrude, Minneapolis
 Poole, Arthur B., St. Paul
 Canada
 Powell, Oliver S., Weyburn, Sask., Canada
 Prudden, Earl D., St. Paul
 Redmond, Mary, Minneapolis
 Reed, Marion, Minneapolis
 Reker, Gladys L., Minneapolis
 Rhoads, Joseph H., South St. Paul
 Ringoen, Florence, Minneapolis
 Robinson, Ethel J., Minneapolis
 Rogers, Mrs. Mary H., Minneapolis
 Royer, Laureame M., St. Paul
 Savidge, Ora, Minneapolis
 Seipel, Julia M., Minneapolis
 Seymour, Dorothy, St. Paul
 Shelp, Edith G., St. Paul
 Sidnam, Alma J., Minneapolis
 Sinclair, Gilbert S., Minneapolis
 Skinner, Clarence L., Minneapolis
 Skinner, Franklin T., Albert Lea
 Slayton, Ethelyn L., Minneapolis
 Smith, Aurilla, Spring Valley
 Smith, Mary B., Minneapolis
 Smith, M. Nathalie, St. Paul
 Sogard, Theodore L., Minneapolis
 Speckman, Edith L., St. Paul
 Stebbins, Goldie L., Thief River Falls
 Stevens, Catherine L., Minneapolis
 Storm, Paul H., Minneapolis
 Strzemielska, Franziska, Edmonton,
 Alta., Canada
 Sund, Vahlborg A., Minneapolis
 Swan, Abel B., Wittenberg, Mo.
 Swanson, Bothilde M., Minneapolis
 Sweatt, Charles B., Minneapolis
 Sweetman, Gertrude C., St. Paul
 Swensen, Oscar A., Minneapolis
 Swenson, Phoebe D., Minneapolis
 Swenson, Severn H., Minneapolis
 Tarbox, Jack, Monticello
 Thiel, George A., Staples
 Thompson, Faith, Minneapolis

Thomson, Willis, Minneapolis
 Timerman, Donald, Minneapolis
 Toomey, H. Clare, St. Paul
 Tuttle, Agatha, Minneapolis
 Tuttle, Helen R., Minneapolis
 Ueland, Arnulf, Minneapolis
 Urquhart, Kathryn J., St. Paul
 Vanasek, Rose, New Prague
 Voak, Florence M., Worthington
 Voelker, Clara E., Winona
 Wallace, Margaret, Minneapolis
 Waterman, Dorothy W., Minneapolis
 Waterman, Emma, Minneapolis
 Watkins, Louise N., Minneapolis
 Webb, Stella M., Sandstone
 Webster, Marian D., Minneapolis
 Weedell, Ruby B., Minneapolis
 Welch, V'Lora, Minneapolis
 Wernicke, Phana O., Minneapolis
 Wetherald, Lillian I., North St. Paul
 Whittier, Chester E., Farmington
 Widell, Eleanor C., Mankato
 Wilson, Alonzo W., St. Charles
 Wittman, Louise J., Delano
 Wold, Kathryn O., Princeton
 Womack, Frances M., Excelsior
 Yetter, Ethel M., Minneapolis

JUNIORS—413

Abbtmeyer, Esther C., St. Paul
 Abrahamson, Alma P., Minneapolis
 Abrahamson, Paul K., Houston
 Adams, Edward H., Minneapolis
 Aho, Leonard, Two Harbors
 Aldenderfer, Franklin W., St. Paul
 Aldrich, M. Elizabeth, Minneapolis
 Andersen, Olga, Minneapolis
 Anderson, Adelina J., Redwood Falls
 Anderson, Rudolph H., Foley
 Andrews, M. Evelyn, Minneapolis
 Angst, Anne M., Minneapolis
 Anthistle, G. Harry, St. Paul
 Appel, Livia, St. Paul
 Applegate, Hazel L., Minneapolis
 Arquist, H. Willet, Hudson, Wis.
 Bacon, Myrtle C., Minneapolis
 Barker, Blanche M., Minneapolis
 Baumhoefener, Corda H., Young America
 Beal, Ralph B., Minneapolis
 Bearnese, Elizabeth, Minneapolis
 Benton, Harriet W., Minneapolis
 Benton, Loren W., Minneapolis
 Berman, Joseph P., Minneapolis
 Bertram, Marie E., Minneapolis
 Resnah, Margaret L., Duluth
 Blain, Gladys, Redfield, S. D.
 Blain, Gleva L., Minneapolis
 Blakey, Dorothy M., Estherville, Iowa
 Blanchard, Mary T., Minneapolis
 Blanchard, Roland, Minneapolis
 Roohar, Florence M., Armour, S. D.
 Borden, Audrey A., St. Paul
 Bowers, Julia L., Gladstone
 Boyle, John W., Stillwater
 Bozarth, Harriet I., Cedar Falls, Iowa
 Branham, Donald S., Minneapolis
 Brewster, Katherine L., Minneapolis
 Bright, Grace M., Minneapolis
 Brockway, Clara E., Royalton
 Buck, Cleo, Pipestone
 Buckley, Edward T., Farmington
 Buechler, Tillie S., Minneapolis
 Burich, Henry J., Hutchinson
 Burton, Charles M., Grand Meadow
 Burwell, John H., Hastings
 Callender, Frank L., Hinckley
 Carling, H. Kathleen, St. Paul
 Carlson, Sigrid E., Marine Mills
 Carpenter, Jesse A., Minneapolis
 Carroll, Eithne M., Minneapolis
 Carroll, Paul, Minneapolis
 Carufel, Abigail, Minneapolis
 Cary, Evan F., Chippewa Falls, Wis.
 Cassilly, Geraldine M., St. Paul
 Clancy, Catherine E., Minneapolis
 Clark, Marguerite, Minneapolis
 Coe, Ruth L., Barron, Wis.
 Cooley, Lida M., Minneapolis
 Cormier, Ethel J., Minneapolis
 Coy, A. Mae, Anaconda, Mont.
 Crandall, Esther, Minneapolis
 Creglow, Ruth, St. Paul
 Cummings, Gordon J., Calgary, Alta.,
 Canada
 Cummins, Adelaide B., Mandan, N. D.
 Cuvellier, Marian A., Minneapolis
 Dahlin, Ivor T., South St. Paul
 Daily, Alice E., Dexter
 Daley, Frances M., Lewiston
 Dampier, Ruth C., St. Paul
 Daniels, Bernice E., Staples
 Danielson, Helen G., Stillwater
 Darling, Margaret, Minneapolis
 de Carle, E. Marie, Miles City, Mont.
 Deloria, Ruth E., Minneapolis
 Denny, Charles M., Jr., Minneapolis
 Devaney, Mary R., Montrose
 Dickey, Eliza D., Wayzata
 Dieckhoff, Bernice, Minneapolis
 Dill, John G., Jr., Wabasha
 Dobie, Joseph J., Mapleton
 Donaldson, L. Mae, St. Paul
 Doyle, Nona E., St. Paul

- Drenckhahn, Esther, Minneiska
 Dumas, Alexander G., Minneapolis
 Dunnavan, Paul H., St. Paul
 Durant, Avis E., Minneapolis
 Duxbury, Ruth, St. Paul
 Dwan, Charles W., Two Harbors
 Dwan, William S., Two Harbors
 Eclov, Hjalmar, Minneapolis
 Egan, Margaret, St. Paul
 Ek, Frances, St. Paul
 Emery, Floyd H., Minneapolis
 Engstrand, Oscar J., Dawson
 Erickson, Edwin J., Montevideo
 Erickson, Ethel N., Minneapolis
 Eshelby, Courtrice, St. Paul
 Eustis, Wilma E., Minneapolis
 Eyler, Godfrey J., Cleveland, Ohio
 Fairbanks, Muriel, Goodland
 Felland, Mabel, Minneapolis
 Fewell, Gladys J., Billings, Mont.
 Finger, Clarence L., Paynesville
 Fitzgerald, Teresa G., Minneapolis
 Fjellman, Ruth, Minneapolis
 Fobes, Katherine E., Northfield
 Foley, Regina E., Stillwater
 Foss, Allen R., Milltown, Wis.
 Fournier, Marietta, Minneapolis
 Frederickson, Myrtle A., New Ulm
 Freeman, Gertrude, St. Paul
 Freeman, Mary A., St. Paul
 Frye, Jeannette K., Minneapolis
 Furst, Margaret, New Prague
 Gale, Hilde, Minneapolis
 Gardner, Ethel M., St. Paul
 Gardner, Wilbur A., Minneapolis
 Geib, Philip J., Jr., St. Paul
 Gerlach, Florence M., Barnum
 Gibbs, Lucy B., Minneapolis
 Gilbert, Wayne C., Grand Rapids
 Gillen, Harold W., Stillwater
 Gipson, Hazel K., Faribault
 Glesnek, Alice, Minneapolis
 Gleysteen, Graham N., Lambertson
 Glorvig, Mabel O., Minneapolis
 Goodrich, Ellen M., Minneapolis
 Gordon, Theresa, Hendrum
 Grandin, Charles L., Jr., Minneapolis
 Grasby, Alma, Houston
 Greaza, Walter N., Highwood, St. Paul
 Green, Robert G., International Falls
 Greene, Marian, Minneapolis
 Greenman, Marion E., St. Paul
 Greenwaldt, Clarence W., Coon Rapids.
 Iowa
 Greig, Paul B., St. Paul
 Griffith, Ruth B., Minneapolis
 Grimsgard, Valborg, Grove City
 Guy, Josephine, Minneapolis
 Haley, Hazel, Hibbing
 Hall, Norma, Los Angeles, Cal.
 Hallberg, Ethel, Minneapolis
 Hallberg, F. Elmer, Minneapolis
 Hamilton, Gail, Britton, S. D.
 Hansen, Conrad J., Minneapolis
 Hansen, Herbert V., Minneapolis
 Harbin, Charles E., St. Paul
 Hario, Elma F., Ely
 Harris, Charles W., St. Paul
 Harrison, Perce R., Minneapolis
 Hart, J. Fowler, Minneapolis
 Hartman, Gertrude C., Minneapolis
 Hartmann, Walter R., Minneapolis
 Hartung, Walter H., Welcome
 Hathaway, Mary, Minneapolis
 Haupt, George E., St. Paul
 Hauser, Karl W., St. Paul
 Hauser, Louis A., St. Paul
 Hauser, Ludwig J., Minneapolis
 Haverstock, Helen C., Minneapolis
 Haywood, Hazel G., Osakis
 Heath, Dorothy R., Minneapolis
 Heide, Marie, Minneapolis
 Hellriegel, Hilda M., Mobridge, S. D.
 Helmick, Alexander, Minneapolis
 Helmick, Caroline E., Minneapolis
 Helstein, Minnie, Minneapolis
 Helweg, Edna C., Fulda
 Hendrickson, Gladys, Minneapolis
 Herber, Myron, Königsberg, Germany
 Heywood, Sidney B., Minneapolis
 Hilleboe, Christian, Minneapolis
 Hinderer, Marie D., St. Paul
 Hirsh, Alexander, Austin
 Hoard, William T., Montevideo
 Hoffmann, J. Wesley, St. Paul
 Hoiland, Ella M., Benson
 Holt, Doris T., Utica
 Houghton, Cora E., Minneapolis
 Howard, Ruth E., Minneapolis
 Hoyt, George S., Cloquet
 Huntley, Gertrude H., Rush City
 Hurd, Marjorie S., St. Paul
 Husby, Blanche O., Minneapolis
 Hyde, Gordon E., St. Paul
 Jacobs, Ruth A., Minneapolis
 Janson, Wilford S., Minneapolis
 Jarzen, John A., Mountain Lake
 Jaroscak, Paul, Minneapolis
 Jensen, Carey M., Minneapolis
 Jensen, Carl C., Minneapolis
 Jensen, Joseph A., Wilmot, S. D.
 Jenswold, Helen C., Duluth
 Jessup, Helen, Minneapolis
 Johnson, Gladys M., Buhl
 Johnson, Roy S., Minneapolis
 Johnson, Russell V., Lanesboro
 Johnson, Ruth T., Minneapolis
 Joseph, Ralph H., Iroquois, S. D.

Jules, Florence, Minneapolis
 Kealy, Mary, Hammond, Wis.
 Kellerhals, May L. E., St. Paul
 Keyes, Irene O., Duluth
 King, Bessie, Minneapolis
 Kirscher, Ione D., Little Falls
 Kitzmann, Francis R., Faribault
 Kleffman, Lydia E., Hibbing
 Klossner, Rudolph, Winthrop
 Knickerbocker, Faith, Staples
 Knowlton, Alfred S., White Bear Lake
 Kolda, Anton C., Savage, Mont.
 Kopplin, E. H., Litchfield
 Kraft, Pauline E., Minneapolis
 Kruse, M. Paul, Minneapolis
 Kuehn, Frank, New Ulm
 Kuhn, Elsner G., St. Paul
 LaBossiere, A. Cecelia, St. Paul
 Lammers, Raymond S., Minneapolis
 Lamson, Gladys C., Lindstrom
 Landers, Ruth, Minneapolis
 Lange, Nita A., Pipestone
 Langtry, Monica A., Minneapolis
 Larrabee, P. Wilber, Minneapolis
 Larsen, Clarence M., Crookston
 Leathers, Gladys N., Osseo
 Lee, J. Leonard, Elbow Lake
 Leerskov, Eleanor W., Minneapolis
 Leighton, Grace F., Minneapolis
 Lenz, Luella B., Minneapolis
 Leonard, Louise M., St. Paul
 Lewis, Glenn M., Minneapolis
 Lind, Carl J., Minneapolis
 Lindholm, Harvey B., Minneapolis
 Lins, Esther L., Rockford, Ill.
 Lobdell, Earle, Minneapolis
 Lobdell, Marie R., Minneapolis
 Locke, John L., St. Paul
 Long, Clare I., Minneapolis
 Luge, Frieda, Cherokee, Iowa
 Luger, Irving J., Minneapolis
 Lund, Harold H., Minneapolis
 Lundquist, Josie, Minneapolis
 Lyons, Mac L., Minneapolis
 McCluskey, Clara, Minneapolis
 Macdonald, Flora J., St. Paul
 McGarvey, Ruth, Minneapolis
 McGraw, Dorothy, Minneapolis
 McHugh, Ethel, Duluth
 McIver, Bert A., Lowry
 McKenna, Joseph E., Cloquet
 MacKechnie, Frances, Minneapolis
 McRae, Wendell S., St. Paul
 Main, Mabel F., Harcourt, Iowa
 Markham, Burt A., Alma City
 Markham, James L., Alma City
 Martin, Mary A., Minneapolis
 Masica, Peter V., Minneapolis
 Matson, Paul, Minneapolis
 Medcalf, F. Gregory, St. Paul
 Mehhouse, Ella M., Dysart, Iowa
 Metcalf, Harold C., Pringhar, Iowa
 Metcalf, Isabel, Pringhar, Iowa
 Miller, Justin, Minneapolis
 Millhouse, Edwin C., Minneapolis
 Molumby, Florence, Minneapolis
 Moore, Helen M., Minneapolis
 Moore, Robert W., Skyberg
 Moore, Ruth L., Minneapolis
 Moriarty, Mary, St. Paul
 Morrissey, Dorothy A., St. Paul
 Morrissey, John G., St. Paul
 Moses, Felix E., Jordan
 Mott, Josephine, Miles City, Mont.
 Mudge, Norman E., Mesaba
 Muir, Grace M., Winona
 Mulligan, James E., Northfield
 Murray, Joseph B., Staples
 Myhre, Olaf O., Hallock
 Nelson, Howard E., Westbrook
 Nelson, Leta M., St. Paul
 Nelson, Marie E., Minneapolis
 Nelson, Marie M., Minneapolis
 Nordquist, Jennie C., Cloquet
 Norgorden, Cora A., Sauk Center
 Norman, P. Emmeritz, Minneapolis
 Norris, Helen A., Minneapolis
 Northey, Cora A., Stillwater
 Northrup, Paul J., St. Paul
 O'Neill, Olive M., St. Paul
 Oldenburg, Paul H., Montgomery
 Olmsted, Ward H., Minneapolis
 Olson, Edward, Minneapolis
 Olson, Jemima E., Minneapolis
 Ossanna, Fredo A., New Duluth
 Ostby, Aslack J., Minneapolis
 Oswald, J. Fred, Minneapolis
 Overmire, Raymond E., Minneapolis
 Parker, Spencer L., Minneapolis
 Paton, Bernadette, Redwood Falls
 Paulson, Amy E., Minneapolis
 Paulson, Earl B., Minneapolis
 Peters, Tola, Carlton
 Peterson, Albert, Teigen, Mont.
 Peterson, May M., Minneapolis
 Peterson, Ruth M., St. Paul
 Poole, Marion G., St. Paul
 Ramaley, Gladys D., St. Paul
 Rankin, Carolyn D., Minneapolis
 Rapp, Peter G., Fairfield, Ill.
 Rathburn, Anna C., Aitkin
 Raverty, E. Lenord, Sleepy Eye
 Reeves, Gail S., Glenwood
 Rhodes, Margaret E., Stillwater
 Rice, Leonard J., Peever, S. D.
 Rice, Vivien A. C., Peever, S. D.
 Richards, Ada, Le Mars, Iowa
 Richardson, Bert A., St. Charles

- Riebock, Elizabeth S., Pomeroy, Iowa
 Ringham, Fred E., Minneapolis
 Rist, Lewis M. B., Algona, Iowa
 Risvold, Sigurd, Grafton, N. D.
 Roberts, Frank L., Minneapolis
 Roberts, Mary T., Pine City
 Robertson, James C., Minneapolis
 Rockey, Catherine, Minneapolis
 Rodlun, Troy M., Willmar
 Roedell, Clarence A., Minneapolis
 Rogers, Richard S., Thief River Falls
 Rosenberg, Maurice N., Minneapolis
 Rucker, William H., Minneapolis
 Rybak, Julia, Pine City
 Rye, Clarence S., Hanlontown, Iowa
 Sailor, Crystal T., Blue Earth
 Samuelson, Paul A., Lafayette
 Saxton, Lucile M., Minneapolis
 Scally, Margaret R., Crow Agency,
 Mont.
 Schaufuss, Charles, Minneapolis
 Schober, Jennie M., Minneapolis
 Schroeder, Alfred, Springfield
 Schurmeier, Gustave B., St. Paul
 Schuyler, Ruth, Fargo, N. D.
 Schwensen, Anne, St. Paul
 Sedgwick, Malcolm A., Minneapolis
 Shell, Ann E., Wallawa, Ore.
 Shenehon, Clare M. C., Minneapolis
 Shepard, Marion A., St. Louis Park
 Shepardson, Mary K., Minneapolis
 Sherwin, Carroll W., Monticello
 Simmons, Dorothy, Minneapolis
 Skellet, Oliver, Minneapolis
 Smith, Elton H., Parkers Prairie
 Smith, Kathleen, Minneapolis
 Sommermeyer, Viola, Minneapolis
 Soule, Harold F., Minneapolis
 Speaker, Gladys F., Minneapolis
 Sprung, Matilda, Devils Lake, N. D.
 Stadler, Roy E., Minneapolis
 Stadvold, Francis H., Fosston
 Stalley, Francis C., Moorhead
 Stanton, Helen J., Minneapolis
 Steele, Richard T., Cherokee, Iowa
 Stephenson, Viva J., Aberdeen, S. D.
 Stevens, Neil C., Minneapolis
 Stevens, Vodica M., Minneapolis
 Stock, Mildred A., St. Paul
 Struble, Mildred C., La Moure, N. D.
 Struett, Joseph A., Perham
 Stuart, Lenore, Minneapolis
 Studness, Leo C., Churchs Ferry, N. D.
 Styles, Wilbur V., Minneapolis
 Sullivan, Florence K., Minneapolis
 Sullivan, Grace D., Minneapolis
 Sullivan, Helen L., Minneapolis
 Sutton, Leonard L., Prior Lake
 Swanson, Esther L., Minneapolis
 Taylor, George F., Excelsior
 Taylor, Mary, Minneapolis
 *Thompson, George P., Minneapolis
 Thompson, Madeline E., Hallock
 Tomlinson, Lucie E., Minneapolis
 Torinus, Faith B., White Bear
 Truby, George L., St. Paul
 Turner, Mrs. Lillian A., St. Paul
 Tusler, Frank H., St. Paul
 Underwood, Alice H., Minneapolis
 Underwood, Ruth E., Minneapolis
 Van Beeck, Gregory, Hastings
 Walker, Eunice M., Cloquet
 Wallace, Carolyn, Minneapolis
 Wangensteen, Charles T., Lake Park
 Ward, Zoe M., Glenwood
 Weck, Charles W., Slayton
 Wedum, Helen M., Alexandria
 Weiss, George, Minneapolis
 Weiss, William A. E., Echo
 Welsh, Margaret E., Winnebago
 Wheeler, Louise B., Winnebago
 Whisler, Wayne E., Minneapolis
 Wilk, E. Reno, Minneapolis
 Will, Lucy M., Minneapolis
 Williams, Ethel, Duluth
 Williams, Herbert E., Minneapolis
 Wilson, Effie M., Minneapolis
 Womack, Weldon, St. Paul
 Wong, Yuan D., China
 Woo, Henry F., China
 Wood, Harold E., Minneapolis
 Woodford, Constance, Lake City
 Wyman, Arnold D., Minneapolis
 Yerxa, Katherine B., Minneapolis
 Zalkind, Bernard C., Minneapolis
 Zanger, Helen E., Minneapolis

SOPHOMORES—689

- Ackley, Frances L., Minneapolis
 Adams, Leon P., St. Cloud
 Addington, Gertrude, Osage, Iowa
 Adolfson, Signe S., Minneapolis
 Ahl, Max H., St. Paul
 Ahlers, Allen H., St. Cloud
 Ahlfs, Jacob, Clara City
 Ahlstrom, D. Lloyd, Minneapolis
 Aichele, Theodore H., St. Paul
 Akre, Edna H., Minneapolis
 Aldrich, Mrs. Bettie M., Minneapolis
 Alexander, Mark H., Owatonna
 Allanson, Gerald R., Minneapolis
 Allen, Doris J., Pine City

*Died, February 17, 1917

Allen, Josephine O., Minneapolis
 Allen, Mildred, Canby
 Altowitz, Abram, Minneapolis
 Alwin, LeRoy V., Mound
 Andersen, Harold W., Minneapolis
 Anderson, Carl R., St. Paul
 Anderson, Douglas G., Minneapolis
 Anderson, Hart, Minneapolis
 Anderson, Henrietta O., Breckenridge
 Anderson, Henry B., Stillwater
 Anderson, Karl H., Minneapolis
 Anderson, Muriel E., Willmar
 Anderson, Ruth E., St. Paul
 Anderson, Walter G., Farwell
 Andrews, Eva L., Minneapolis
 Andrist, Victor, Mantorville
 Anonsen, Stanley H., Windom
 Apel, Harriet K., Minneapolis
 Archambo, Erna, Minneapolis
 Armson, Ruth M., Stillwater
 Arosin, Louise, St. Paul
 Arper, Helen C., St. Paul
 Babcock, Loren C., Minneapolis
 Bacher, John R., Duluth
 Bade, Edward S., Minneapolis
 Bailey, Winifred I., Minneapolis
 Baird, Frances H., Austin
 Baker, Elsie L., St. Paul
 Baker, Russell D., Detroit
 Ballenbach, Willard M., Minneapolis
 Barry, Winifred M., St. Paul
 Bartlett, Walter, Minneapolis
 Bates, Gordon R., Minneapolis
 Bayard, Harry F., St. Paul
 Becker, Jessica L., Minneapolis
 Bedell, Emma, St. Paul
 Beers, Lorna D., Maple Plain
 Beggan, Margaret B., Lake Park
 Bell, Helen, Minneapolis
 Benitt, William A., Goodhue
 Bennett, Mildred I., Minneapolis
 Benson, Ivan B., Minneapolis
 Berg, Ruth E., Minneapolis
 Berg, Samuel A., Minneapolis
 Berg, Walter R., St. Paul
 Bergman, Oscar B., Foley
 Berkvam, Edwin J., Caledonia
 Bessesen, Alfred N., Minneapolis
 Bessesen, Daniel H., Minneapolis
 Best, Fred V., Sioux Falls, S. D.
 Bicek, Joseph F., Montgomery
 Birdsall, Roger P., Minneapolis
 Blair, Marie G. F., Minneapolis
 Blanchard, Margaret A., Minneapolis
 Blanchett, Harold E., Minneapolis
 Blender, Norman W. M., St. Paul
 Bockler, James H., St. Charles
 Bockstruck, Else H., St. Paul
 Boehme, Alma G., Minneapolis

Bohl, George W., Albert Lea
 Bole, Edna A., St. Paul
 Bolin, Agnes H., Minneapolis
 Bonniwell, Kathleen, Hutchinson
 Boo, Clinton R., Stillwater
 Boothroyd, Margaret, Minneapolis
 Borgman, Melville B., Minneapolis
 Bovino, Salvatore A., New York City
 Bowlby, Charles M., St. Paul
 Bowman, Winnie H., St. Paul
 Boyum, Andrew J., Fergus Falls
 Brace, Louise E., Minneapolis
 Brasie, M. Muriel, Minneapolis
 Bratrude, Earl J., St. James
 Breed, Ella M., Minneapolis
 Britzius, Harold, Minneapolis
 Brown, Ada, Minneapolis
 Brown, Alexander E., St. Paul
 Brown, Bernice E., Minneapolis
 Brown, Elizabeth G., Minneapolis
 Brown, Margaret, Minneapolis
 Brown, Stanley K., St. Paul
 Browning, Beatrice S., Minneapolis
 Bucknell, Vera, Decorah, Iowa
 Buechler, Frances L., Minneapolis
 Buffington, Gilbert, Stillwater
 Buhr, Oscar L., Stewart
 Burchard, John E., Jr., Marshall
 Burke, Eugene, Minneapolis
 Buss, Anna, St. Paul
 Byrne, Lucille H., Minneapolis
 Calhoun, Bernard P., Columbus, Mont.
 Campbell, Frederic A., Superior, Wis.
 Campbell, Marion E., Parkers Prairie
 Carey, Sara, Minneapolis
 Casey, Stanley F., Minneapolis
 Cassaday, Frances V., Sioux City,
 Iowa
 Challman, Grace M., Minneapolis
 Chapman, Dorothy E., Minneapolis
 Chapman, Fred L., St. Peter
 Chase, Chauncey G., Minneapolis
 Chase, Lucille A., Minneapolis
 Chase, Phyllis C., Minneapolis
 Chmelik, Ignus A., Pine City
 Chrysler, Clayton D., Lake Park, Iowa
 Clancy, James F., Minneapolis
 Clark, Eleanor A., Pine City
 Clark, Julia, Minneapolis
 Clarke, Robert P., Fergus Falls
 Clasen, Alice M., St. Paul
 Cleveland, Walter R., Minneapolis
 Clyborne, Robert A., Minneapolis
 Coburn, Charles, Lowell, Mass.
 Code, Leslie L., Minneapolis
 Coffee, Mabel V., Minneapolis
 Cohen, Edith D., Minneapolis
 Cole, Roland E., Minneapolis
 Coleman, Helen M., Minneapolis

- Colleran, Ellen N., Miles City, Mont.
 Colwell, Esther, St. Louis Park
 Comer, Jennie E., Minneapolis
 Conger, Constance V., Minneapolis
 Cooperman, Maurice H., Canada
 Copeland, Genevieve, Minneapolis
 Cornica, Loretta M., Glencoe
 Cowie, Alexander R., St. Paul
 Craven, Edward B., Williston, N. D.
 Crawford, Mildred J., Mankato
 Crocker, Paul L., Minneapolis
 Dahlstrom, E. Anna, Minneapolis
 Dale, Helen D., St. Paul
 Daley, Ernest C., Minneapolis
 Danaher, Albert T., Minneapolis
 Danek, Bernice A., Glencoe
 Darling, Dorothy, Minneapolis
 Daugherty, Lucile, Minneapolis
 Davies, Dorothy, St. Paul
 Davis, Donald M., Minneapolis
 Davis, R. De Lancey, Minneapolis
 Day, Eugenia, Minneapolis
 Dehn, Viola, Waterville
 Deinard, Amos S., Minneapolis
 Deinard, Benedict S., Minneapolis
 Delaplane, Lelia L., Cherokee, Iowa
 Deringer, Palma E., St. Paul
 Dillan, Ingolf, Brainerd
 Dillon, Lucy E., Mondovi, Wis.
 Dolliff, Roger P., Redwood Falls
 Downing, Isabel N., St. Charles
 Drenckhahn, Annabel A., Minneiska
 Drum, Margaret, Owatonna
 Du Bois, Iva E., Minneapolis
 Dunlevy, Michael J., Lansing, Iowa
 Dunning, Ruth, St. Paul
 Dvorak, August, Glencoe
 Dworsky, Peter A., Minneapolis
 Dworsky, Zollie A., Minneapolis
 Eames, Obadiah, Red Wing
 Eberlein, William, Mankato
 Eder, Howard L., Blue Earth
 Edgerton, Dorothy M., Minneapolis
 Egan, Irma L., Minneapolis
 Eggan, Benjamin O., Minneapolis
 Elliott, Ruth M., Minneapolis
 Empey, Edith, Hinckley
 Engelbert, Elmer E., Bronson
 Engelhart, Peter E., Jr., Mazeppa
 Erickson, Agnes R., Minneapolis
 Erickson, Anna O., Minneapolis
 Erickson, Ethel E., Minneapolis
 Erpelding, John K., Adrian
 Eshelby, Doris Y., St. Paul
 Esswein, Emily E., Minneapolis
 Evans, Helen I., Bemidji
 Evans, Meredith, Pipestone
 Evenson, Ruth A., St. Paul
 Everett, Huber, Des Moines, Iowa
 Faber, George L., Chaska
 Faricy, Robert B., St. Paul
 Farnsworth, Mildred L., Minneapolis
 Field, Naomi, Minneapolis
 Field, Ruth S., Wadena
 Fineman, Bertha C., Minneapolis
 Finkelstein, Harold D., St. Paul
 Fischer, Frederick J., Minneapolis
 Fisher, Lucile, St. Cloud
 Flanagan, John, Blooming Prairie
 Flannigan, Mary E., Minneapolis
 Fletcher, H. Violette, Minneapolis
 Fleury, Edward H., Duluth
 Foley, Irene M., Minneapolis
 Forsberg, William C., St. Paul
 Foss, Cyril C., Windom
 Fossen, Henry I., Fergus Falls
 Frank, Olga, Minneapolis
 Fredman, Harry, Minneapolis
 Fremd, William, Buffalo
 French, Jane E., Minneapolis
 Friedel, Aaron, Minneapolis
 Friedman, Isadore S., St. Paul
 Frost, Dwight G., Mankato
 Fuller, Ambrose, Bingham Lake
 Fuller, Edna M., St. Louis Park
 Fuller, Marjorie M., St. Paul
 Fuller, Mildred H., St. Paul
 Gabrielsen, Gudrun, Norway
 Gage, Ruth, Olivia
 Gall, Alice L., St. Paul
 Gallagher, Thomas F., Faribault
 Gamble, Ross M., Minneapolis
 Ganssle, John P., Minneapolis
 Garceau, George J., White Bear
 Gardner, Grace L., St. Paul Park
 Gavin, Mary A., Minneapolis
 Gearey, Verne S., St. Paul
 Goldman, David, Minneapolis
 Gerow, Theron G., Minneapolis
 Getchell, Grace C., Minneapolis
 Gilbert, Howard F., Minneapolis
 Gile, Chester A., Minneapolis
 Gile, Robert B., Minneapolis
 Gillespie, Margaret J., Anoka
 Gillette, Elizabeth C., Minneapolis
 Gilstad, Leif, St. Paul
 Gingold, Benjamin A., Duluth
 Gleason, Beatrice A., Minneapolis
 Goldberg, Ernest E., Hopkins
 Goldberg, Isidor, St. Paul
 Goldin, Esther A., Millette, S. D.
 Gordon, Beaufort M., Janesville
 Graber, Helen R., Minneapolis
 Grabow, Rudolph, Minneapolis
 Grandin, William W., Minneapolis
 Green, Morris, Minneapolis
 Greenberg, Etta, Minneapolis
 Greenberg, Mary, Minneapolis

- Greene, Ailene C., Proctor
 Greengard, Ralph H., Williston, N. D.
 Grezca, Barney, Little Falls
 Griffin, Melva, St. Paul
 Gruber, Ossian, St. Paul
 Grunklee, Ervin A., Claremont
 Guenther, Clayton A., Stewartville
 Gunlaugson, Grace L., Clarkfield
 Gunn, A. Marie, Albert Lea
 Gunnarson, Arthur B., Minneapolis
 Guttersen, Madeline V., Minneapolis
 Hall, Clinton A., Minneapolis
 Hall, Robert P., Minneapolis
 Hamilton, Mark F., Minneapolis
 Hanley, John B., Minneapolis
 Hansen, Carrie, Columbus, Mont.
 Hansen, Hazel A., Hibbing
 Hardy, H. Beatrice, Minneapolis
 Harri, Jerry A., Ely
 Harris, Herbert H., Detroit
 Harris, Marion E., St. Paul
 Harris, Mary L. B., Evansville
 Hartsough, Mildred L., Minneapolis
 Hartzell, P. Katherine, Minneapolis
 Haskell, E. Dudley, Minneapolis
 Hathaway, Paul W., Cottageood
 Hathaway, Roderick D., Rochelle, Ill.
 Hauge, Coleman S., Minneapolis
 Haugland, Mildred G., Montevideo
 Haupt, David R., St. Paul
 *Hause, Margaret S., St. Paul
 Hauser, Emil D. W., Minneapolis
 Hauser, Frederick K., Minneapolis
 Hawkinson, Amy E., Stillwater
 Haynes, James A., Minneapolis
 Heald, George A., Spencer, Iowa
 Hedberg, Agnes V., Minneapolis
 Hefley, James B., Minneapolis
 Heimark, Bessie A., Clarkfield
 Helgeson, Esther G., Minneapolis
 Helming, Grant C., Mott, N. D.
 Hemke, Esther, St. Paul
 Hendrickson, Esther, Minneapolis
 Herreid, Myron T., Blair, Wis.
 Heyler, Walter B., Mitchell, S. D.
 Higgins, William E., Minneapolis
 Hilgers, Joseph L., Jordan
 Hilleboe, Guy L., Minneapolis
 Hillgren, Ralph O., Minneapolis
 Hinkley, Marion L., Champlin
 Hinks, Kenneth W., Minneapolis
 Hinners, Marion R., St. Paul
 Hirschfeld, Leo, Minneapolis
 Hirshfield, Frank, Minneapolis
 Hockenberger, Helen, Minneapolis
 Hoff, John E., Minneapolis
 Hoff, Lillian C., St. Paul
 Holen, Walter F., Minneapolis
 Holmes, F. Lincoln D., Owatonna
 Holt, Gladys M., Minneapolis
 Holton, Murlen F., Minneapolis
 Holzheid, Adeline S., White Bear Lake
 Horn, Elsa O., St. Paul
 Horsch, Caroline, Delano
 Houk, Norman C., Minneapolis
 Howard, Beulah, Frederic, Wis.
 Howard, Merrill A., Minneapolis
 Huesman, Teresa, Minneapolis
 Humphrey, George W., Jr., Minneapolis
 Hurd, Cecil C., Minneapolis
 Hustad, John C., Alexandria
 Ickler, L. Harold, St. Paul
 Irish, Dorothy H., Minneapolis
 Jacobsen, Milton A., Luverne
 Jaeger, Edgar M., Minneapolis
 James, Edith L., St. Paul
 Janecky, Harold F., Hutchinson
 Jepson, Beatrice, Minneapolis
 Johns, Margaret A., Litchfield
 Johnson, Cecil W., Cresco, Iowa
 Johnson, Ernest L., Minneapolis
 Johnson, Fred W., Minneapolis
 Johnson, Henry A., Willmar
 Johnson, H. Vincent, Minneapolis
 Johnson, Joseph O., Minneapolis
 Johnson, Oscar G., Hallock
 Johnson, Paul B. M., Minneapolis
 Jones, Harold M., Hankinson, N. D.
 Jones, Norris G., Minneapolis
 Jones, Walter A., Minneapolis
 Jorgenson, Oliver M., Minneapolis
 Joseph, Roland H., Owatonna
 Kaiser, Irwin, Minneapolis
 Kaufman, Sara J., Ladysmith, Wis.
 Keefe, Agnes M., St. Paul
 Kelly, Frank S., Jr., Duluth
 Kendall, Margaret E., St. Paul
 Kenkel, Annas C., Minneapolis
 King, Harold R., Minneapolis
 Kinney, Keith W., Osseo
 Kinney, Mercedes, Minneapolis
 Kinsell, Leonard, Minneapolis
 Knocke, Erna R., St. Paul
 Korff, Beryl D., Faribault
 Korfhage, Roy F., St. Paul
 Krank, Erma M., St. Paul
 Kranz, Lucile M., St. Paul
 Krefting, Clara E., Minneapolis
 Kruse, Elsa, Minneapolis
 Kucera, Frank J., Hutchinson
 Kurtzman, R. Harold, Minneapolis
 Lagaard, Elizabeth, Minneapolis
 Lahtinen, Wymen W., Minneapolis
 Laird, Ruby H., Duluth
 Lambert, Paul H., St. Paul
 Laskey, Stanley F., Duluth

*Died, May 8, 1917

- Leaf, Helmer C., Taylors Falls
 Lee, Orrin, St. Paul
 Lehmann, Hattie E., Crookston
 Lennon, Esther V., Minneapolis
 Lester, Gertrude, Minneapolis
 Levin, Philip, Minneapolis
 Lewis, Leila L., St. Paul
 Lewis, Margaret, St. Paul
 Liddicoat, Arthur G., Biwabic
 Lillehei, Elmer J., Luverne
 Lindquist, Richard H., Minneapolis
 Linsmayer, Carl P., Minneapolis
 Linstrom, Hazel, Minneapolis
 Litman, Samuel N., Duluth
 Loehlin, Clinton H., Minneapolis
 Lohff, Doris D., Minneapolis
 London, Goldie B., Minneapolis
 Long, Madeline S., Minneapolis
 Longfellow, Helen E., Minneapolis
 Longini, Helen, Minneapolis
 Lord, Samuel, St. Paul
 Low, Marie L., Minneapolis
 Lowry, G. Markham, Fergus Falls
 Ludlow, M. Helen, Minneapolis
 Ludolph, Irwin H., Minneapolis
 Ludwig, Ezra L., Minneapolis
 Lund, Harold O., Dawson
 Lutz, Paul E., St. Paul
 Lyman, Gordon R., St. Paul
 Lynskey, Elizabeth M., Minneapolis
 McBeath, Ewing C., Minneapolis
 McBride, Mae, Vienna, S. D.
 MacClatchie, Eva H., Minneapolis
 McCune, Guy E., Benson
 Macdonald, Agnes W., Duluth
 Macdonald, Jessie, St. Paul
 MacDonald, Mercedes, St. Paul
 McDuffee, William S., Minneapolis
 Macfarlane, Harvie, Minneapolis
 McKay, Dorothy C., Duluth
 McMurtric, William B., Proctor
 McNally, Leo P., Duluth
 MacPhail, Anne L., Minneapolis
 McPharlin, Albert B., Minneapolis
 Madison, Arthur, St. Paul
 Manly, Coila I., Dawson
 Marcell, Clifford E., Minneapolis
 Marsch, Adelaide C., Wabasha
 Marshall, Clarence, Serena, Ill.
 Marshall, J. Clark, Minneapolis
 Marshall, Walter J., Serena, Ill.
 Martinez, Marie D., St. Paul
 Masek, Margaret, St. Paul
 Masterson, Maurice E., Barnesville
 Maurek, Caroline M., Austin
 Maxson, Leslie, St. Cloud
 Medley, Jean, Minneapolis
 Meland, Jeannette, Red Wing
 Mellenthin, William, St. Paul
 Menk, Laura H., Minneapolis
 Merkert, Charles E., Minneapolis
 Mertens, Raymond P., Minneapolis
 Metcalf, Alan L., Minneapolis
 Meurer, Gabriel P., Mankato
 Miles, Calista M., Minneapolis
 Miley, Grace L., Minneapolis
 Miller, Gladys G., Minneapolis
 Miller, Helen M., Minneapolis
 Miller, Hyme H., Minneapolis
 Miller, Joseph R., Minneapolis
 Milne, Vera, Minneapolis
 Minsky, Nathan, Minneapolis
 Mitchell, Clarence C., Amiret
 Mitchell, Reginald R., Minneapolis
 Moreland, Ada C., Luverne
 Morell, William, Grandy
 Morrison, James B., Minneapolis
 Morrison, Teresa A., Prior Lake
 Mott, Virginia J., St. Paul
 Moynahan, Frances J., Minneapolis
 Mulhern, Monica P., St. Paul
 Murphy, John B., Mapleton, N. D.
 Murphy, Katherine M., Minneapolis
 Myers, Genevieve E., Minneapolis
 Nacht, Leon J., Minneapolis
 Nag, Robindra C., India
 Naughton, Marie A., St. Paul
 Neils, Henry J., Cass Lake
 Nelson, Brownie A., Minneapolis
 Nelson, Donald O., Minneapolis
 Nelson, Ernest J., Minneapolis
 Nelson, G. Raymond, Minneapolis
 Nelson, Leonard C., Midale, Sask., Canada
 Nelson, Marque O., St. Paul
 Nelson, Nina V., Taylors Falls
 Nelson, Ruth C., Grove City
 Newman, Maurice M., St. Paul
 Nickell, Dixie, Fulton, Mo.
 Nigg, Albert, Merrill, Iowa
 Niles, Katherine S., Minneapolis
 Nolan, Frederick E., North St. Paul
 Nordquist, Ruth M., Minneapolis
 Nordstrom, Leonard A., Minneapolis
 Norem, Adell E., Minneapolis
 Numero, Joseph A., South St. Paul
 O'Brien, James L., Minneapolis
 O'Brien, Kathleen F., Minneapolis
 O'Connor, Agnes, Minneapolis
 O'Neill, Marie E., Minneapolis
 Oberg, Gerald O., Brandon
 Olson, Charles E., Minneapolis
 Olson, Edythe L., Minneapolis
 Olson, Valborg T., Minneapolis
 Orr, Walter J., Baudette
 Pankow, Louis J., Sioux Falls, S. D.
 Paper, Sarah, St. Paul
 Parsons, Marion C., Fergus Falls
 Parsons, Marion F., St. Paul

- Partridge, Dorothy, Minneapolis
 Patrick, G. Irene, Hinckley
 Patten, Gerald R., Minneapolis
 Paulson, Lillian B., Henning
 Pecor, Rose, Minneapolis
 Peik, Bertha F., Minneapolis
 Perry, Hazen T., St. Paul
 Pesek; Luella G., Minneapolis
 Peters, Elsie E., Rock Rapids, Iowa
 Peterson, Agnes C., Hopkins
 Peterson, Alice M., Thief River Falls
 Peterson, Helfrid N., Minneapolis
 Peterson, Mildred I., Minneapolis
 Pettersen, Valborg, St. Paul
 Pettis, Glenn W., Grand Rapids, Mich.
 Petry, Noah E., Minneapolis
 Phillips, Alberta M., St. Paul
 Pierce, Raymond C., Red Wing
 Pierson, Ridgely B., Quincy, Ill.
 Pippel, Herbert A., Robbinsdale
 Plant, Jeannette, St. Paul
 Poehler, Gladys E., Minneapolis
 Poehler, Kenneth C., Minneapolis
 Pratt, Clifford V., Minneapolis
 Prendergast, Harold J., St. Paul
 Prentice, J. Watson, Abbotsford, Wis.
 Proshek, Antoinette, New Prague
 Pryor, Ralph H., Hinckley
 Pugh, Clifford H., St. Paul
 Radebaugh, Kathryne, Minneapolis
 Radtke, Herman P., New Ulm
 Raine, Marjorie, Minneapolis
 Ramsey, Selmer A., Twin Valley
 Rasmussen, Einar, Minneapolis
 Ravitch, Clara B., Minneapolis
 Ravitch, Clara R., Minneapolis
 Rawson, Robert C., Robbinsdale
 Raymer, Walter H., St. Paul
 Rector, Gertrude, Minneapolis
 Redmond, Max E., Minneapolis
 Reetz, Elsie W., Minneapolis
 Regan, Virginia M., Minneapolis
 Regnier, Edward A., Minneapolis
 Reynolds, Gardner S., St. Paul
 Rieke, Beatrice D., Fairfax
 Ringoen, Marion R., Ridgeway, Iowa
 Rittenhouse, David, Minneapolis
 Robertson, George A., Stillwater
 Robinson, Eleanor T., Chippewa Falls, Wis.
 Roden, John J., St. Paul
 Rosaaen, Hugh O., Crookston
 Rosenberg, Ruth, Minneapolis
 Rounds, Jeanne, St. Paul
 Rucker, Eva C., Howard Lake
 Rucker, J. Edward, Minneapolis
 Rumpf, Carl W., Faribault
 Rumsch, Hertha H., South St. Paul
 Russell, Clara B., Grand Rapids
 Ryan, Dorothy M., Minneapolis
 Ryan, Gladys M., Hibbing
 Ryan, Johanna, Minneapolis
 St. Clair, Leona, Owatonna
 Sahol, Gotthard I., Fergus Falls
 Sakamoto, Yukio, Japan
 Salet, Harry N., St. Paul
 Samels, Raymond A., Minneapolis
 Sanders, F. Myrtle, Minneapolis
 Schacht, Erwin H., Red Wing
 Scheffrin, Rose J., Milwaukee, Wis.
 Schmitt, Earl O. G., Paynesville
 Schmitt, Harrison A., Minneapolis
 Schmitt, Helen K., Minneapolis
 Schmitt, Margaret E., Mankato
 Schouweiler, Earl W., Fairmount, N. D.
 Schrader, J. Ernest, St. Paul
 Schulte, Emily, Minneapolis
 Schurr, Ottilie M., Glencoe
 Schwartz, Lewis H., Minneapolis
 Scodel, Bension, St. Paul
 Scott, Donald J., Faribault
 Scott, Jessie, Sioux City, Iowa
 Segal, Benjamin, Minneapolis
 Serumgard, Arthur, Devils Lake, N. D.
 Serumgard, Grace B., Devils Lake, N. D.
 Sevey, Ben W., Minneapolis
 Shaich, David, Minneapolis
 Shannon, M. Mae, Minneapolis
 Shea, Willard C., Eveleth
 Sheldon, Herbert L., Watertown, S. D.
 Sherk, Edgar A., Minneapolis
 Sherk, Olga G., Minneapolis
 Sherman, Val C., Minneapolis
 Sholley, Sidney L., Minneapolis
 Silberman, Moe W., Minneapolis
 Simmons, H. Roy, St. Paul
 Simons, Benjamin H., Chaska
 Sims, George K., Harrison, Ark.
 Sinaiko, Herman H., Madison, Wis.
 Siperstein, David M., Minneapolis
 Skinner, Florence, St. Paul
 Smit, Catherine M. M., St. Paul
 Smith, Blanche C., West Union, Iowa
 Smith, Eunice M., Minneapolis
 Smith, Malcolm D., Minneapolis
 Smith, Percy G., Fulda
 Smith, Phil W., Austin
 Smith, William A., Minneapolis
 Sogard, Marion, Minneapolis
 Sommers, Harold G., St. Paul
 Sontag, Edna L., Heron Lake
 Sook, Rosalia M., Arco
 Sorensen, Ebba J., Minneapolis
 Sorensen, Meta M., Morgan
 Sorum, Ruth, Minneapolis
 Souba, Bessie B., Hopkins
 Spellacy, Aloysius W., St. Paul

- Spink, Margaret, Mahtomedi
 Sprague, Gordon W., Madelia
 Spurzem, Ray J., Minneapolis
 Stearns, Stanley, Hecla, S. D.
 Stiles, Ray C., Minneapolis
 Stinchfield, Alice, Rochester
 Stock, Helen M., St. Paul
 Stokes, Philip D., St. Paul
 Stork, Harold C., St. Paul
 Strand, Esther A., Minneapolis
 Strang, Russell L., St. Paul
 Stratte, Alf K., Dawson
 Sturges, Chester J., Buffalo
 Sullivan, Arthur F., Minneapolis
 Sundheim, Marie I., Minneapolis
 Swanish, Peter T., Minneapolis
 Sward, Merrily, St. Paul
 Sweetzer, Horatio B., Jr., Minneapolis
 Swenson, E. Hildegard, Minneapolis
 Swigart, Franklin J., Minneapolis
 Tanner, Charlotte E., Culbertson,
 Mont.
 Taylor, Allison G., Minneapolis
 Taylor, Elmer A., St. Paul
 Tenney, Richard C., Minneapolis
 Thiel, Joseph M., Hopkins
 Thomas, Miriam E., Minneapolis
 Thompson, Dorothy, Minneapolis
 Thompson, Martha, Minneapolis
 Thompson, Nellie A., St. Paul
 Thompson, S. Keith, St. Paul
 Thurston, Anne, Minneapolis
 Thygeson, Elling, St. Paul
 Tilden, Helen M., St. Paul
 Tillotson, John O., Minneapolis
 Tomczak, Agnes M., St. Paul
 Tomelty, Joseph P., Little Falls
 Toomey, Helen, St. Paul
 Tracy, Leila G., Valley City, N. D.
 Tracy, Mary A., St. Paul
 Ulvan, Jacob H., Hendrum
 Vail, James B., Forest Lake
 Vallentyne, Eva E., Minneapolis
 Van Nest, Leland S., Windom
 Van Valkenburg, Frederick W., Long
 Prairie
 Vehe, Reuben F., Bristol, S. D.
 Vestre, Willard E., Drayton, N. D.
 Vig, Esther, Litchfield
 Virnig, Leo F., Pierz
 Volkay, Nicholas C., Minneapolis
 Von Bohland, Yuanita, Belle Plaine
 Voss, Evelyn C., St. James
 Wacek, William H., New Prague
 Wachlin, Antonia, Brownsdale
 Walker, Jeannette J., Minneapolis
 Wallis, Olivia R., St. Paul
 Wangensteen, Owen H., Lake Park
 Ward, Reuben M., Fairmont
 Warner, Florence L., Minneapolis
 Warren, Ruth R., Hinckley
 Warschauer, Isadore L., Minneapolis
 Wash, Marian H., Minneapolis
 Watson, Marie L., St. Louis Park
 Way, Marjorie D., Minneapolis
 Weber, Alice J., Minneapolis
 Webster, Marion E., Minneapolis
 Webster, William H., Minneapolis
 Weck, Donald, Slayton
 Westerman, Rodolpho G., Brazil, South
 America
 Wheeler, Fred D., Deadwood, S. D.
 Whitney, C. Harold, Rochester
 Wik, Lydia S., Duluth
 Wilke, Phyllis N., Elkader, Iowa
 Willits, Eleanor, Minneapolis
 Wilson, Lorna J., Minneapolis
 Wilson, William H., St. Paul
 Winter, Edwin H., Minneapolis
 Wise, Katherine, Mankato
 Witty, Walter H., St. Peter
 *Wold, Stanley I., Minneapolis
 Wolean, Alma B., Duluth
 Wolfe, Ida J., Hibbing
 Wolff, Lillian, Grand Forks, N. D.
 Wood, Roberta V., Minneapolis
 Woolsey, Adelaide, Minneapolis
 Wolke, Harvey E., Hopkins
 Wyvell, Alice G., Breckenridge
 Yager, Saul A., Minneapolis
 York, Douglas A., St. Paul
 Zickrick, Karl H. B., St. Paul
 Ziegelmeier, Lucile E., Minneapolis

FRESHMEN—859

- Aanes, Bertram L., Clarkfield
 Abbtmeyer, Mildred A., St. Paul
 Abbott, Fannie M., Minneapolis
 Abell, Almo G., Minneapolis
 Aberle, Rebekah, Alexandria
 Adams, Frances E., Morgan
 Adsit, Jean, Owatonna
 Ainsworth, Stuart M., Minneapolis
 Aker, Maurice S., Baker, N. D.
 Albinson, Sophia V., Worthington
 Allen, Dorothy, White Bear Lake
 Allison, Constance, Minneapolis

*Died, July 20, 1917

- Altman, George T., Duluth
 Andelfinger, Georgia W., St. Paul
 Andersch, George J., Minneapolis
 Anderson, Alvin A., Minneapolis
 Anderson, Dorothy M., Minneapolis
 Anderson, Eleanore G., Brainerd
 Anderson, Genevieve, Litchfield
 Anderson, George W., Veblen, S. D.
 Anderson, Grant W., Mora
 Anderson, J. Alvin, Minneapolis
 Anderson, Lillian D., St. Paul
 Anderson, Mabel V., Redwood Falls
 Anderson, Mark J., Rochester
 Anderson, Reuben N., Stillwater
 Andrews, Marion E., Minneapolis
 Andrews, Ralph W., Minneapolis
 Angell, Elizabeth F., Minneapolis
 Angus, Viola P., Minneapolis
 Anonsen, Reuben G., Windom
 Armson, George P., Stillwater
 Armstrong, Margaret M., Kansas
 City, Mo.
 Arnold, Verda C., Heron Lake
 Arnoldy, William F., Minneapolis
 Arntson, Neal A., Red Wing
 Atherton, Selma K., Minneapolis
 Aurelius, J. Richards, St. Paul
 Austin, Mary E., Minneapolis
 Babcock, Forrest E., Anoka
 Bagley, Marion, St. Paul
 Bakke, U. Dean, Detroit
 Baldwin, Helen, St. Paul
 Banister, Dorothy K., St. Paul
 Banister, Reginald R., St. Paul
 Bargaen, William J., Mountain Lake
 Barnard, George L., Renville
 Bartholomew, C. Lewis, Jr., Minneapolis
 Bartlett, Marshall, Minneapolis
 Bather, Edward C., Fulda
 Baxter, Helen, Minneapolis
 Bayne, Helen R., St. Paul
 Beal, Thelma E., Minneapolis
 Beard, William L., St. Paul
 Becker, A. Enoch, Ashley, N. D.
 Becker, Frederic A. H., St. Paul
 Beerhalter, Richard, Duluth
 Bell, Florence M., Nevada, Iowa
 Bentley, Grace A., Minneapolis
 Benton, Henrietta K., Minneapolis
 Benton, Phoebe L., Minneapolis
 Beran, Benedict G., Elysian
 Berg, Robert O., Princeton
 Berglin, George A., Grasston
 Berkus, Robert H., St. Paul
 Berry, Leonard L., St. Paul
 Bierbauer, Norma L., Mankato
 Birch, Katherine F., Duluth
 Birkett, Myra J., Hazel Green, Wis.
 Bixby, Willard W., St. Paul
 Black, Benjamin D., Anoka
 Elodgett, Arthur W., Faribault
 Blunt, James K., Bismarck, N. D.
 Bockler, Charles J., St. Charles
 Bolin, Evelyn E., Minneapolis
 Boquist, Linda, Minneapolis
 Borgeson, Isabelle P., Minneapolis
 Bosworth, Grace L., Ada
 Bouvier, Arthur P., Minneapolis
 Bowe, Alvin G., St. Paul
 Bowe, Arthur B., St. Paul
 Braaten, Ethel, Minneapolis
 Branham, Leon T., Minneapolis
 Bratrude, Amos P., St. James
 Bratt, Rungnar, Cloquet
 Braum, Blanchard K., Minneapolis
 Brechet, Louis B., Minneapolis
 Bremicker, Carl T., Minneapolis
 Brill, B. Bertha, Minneapolis
 Brince, Frank J., Eveleth
 Britt, Anna C., Minneapolis
 Brody, Louis, Minneapolis
 Brooks, Marguerite A., Waverly, Iowa
 Broughton, Walter W., Waseca
 Brown, Harry E., LeRoy
 Brown, Louise M., Minneapolis
 Brown, Olga V. E., Minneapolis
 Browne, Robert W., St. Paul
 Bryan, Harry, Lansing, Iowa
 Bryant, James W., Minneapolis
 Bullis, Everard J., St. Paul
 Burchard, Henry M., St. Paul
 Burgess, C. Benjamin, Eagle Lake
 Burke, Kathryn, Minneapolis
 Burmeister, Irene R., Minneapolis
 Bushnell, Mary E., Minneapolis
 Buswell, Karl P., Minneapolis
 Butterworth, C. Forest, Mankato
 Bylund, Swan O., Mora
 Callahan, Marie H., St. Paul
 Campbell, Archie H., Minneapolis
 Campbell, A. Ross, Alexandria
 Campbell, Dorothy J., Minneapolis
 Cantieny, Charles P. H., Minneapolis
 Carlson, Arthur M., Minneapolis
 Carlson, Astrid A., Minneapolis
 Carlson, Berthel R., Minneapolis
 Carlson, Goldie E., Oakland, Neb.
 Carlston, Ramon R., Minneapolis
 Carson, Leon D., Osage, Iowa
 Carter, Leslie J., Marmarth, N. D.
 Carton, Beatrice W., Britt, Iowa
 Cashman, Norah C., Owatonna
 Cassilly, Catherine, St. Paul
 Cates, Marjorie M., Kimball
 Catherwood, Sylvia E., Minneapolis
 Chalupsky, George A., Bijou
 Chapman, Fred R., Dillon, Mont.
 Chapsky, Albert H., Minneapolis

- Charleston, Ruth R., Minneapolis
 Chase, Stillman C., Minneapolis
 Chatman, Frank, Osage, Iowa
 Clark, Gertrude E., Council Bluffs,
 Iowa
 Clark, Harold W., Minneapolis
 Clark, E. Wynifred, Minneapolis
 Cleary, Mary G., South St. Paul
 Clement, Milla G., Minneapolis
 Coghill, Earl D., Bath, S. D.
 Cohen, Abe W., St. Paul
 Cofen, Marion S., Minneapolis
 Cohen, Roy B., St. Paul
 Colleran, Anna, Miles City, Mont.
 Collins, Russell M., Minneapolis
 Congdon, C. Bennett, Hibbing
 Conger, Mildred E., St. Paul
 Cook, Lloyd E., Farmington
 Cook, Paul A., Bismarck, N. D.
 Cook, Sarah M., Minneapolis
 Coombs, Irwin F., Keokuk, Iowa
 Cornell, Helen, Minneapolis
 Costigan, Honora, Minneapolis
 Countryman, Helen, Grafton, N. D.
 Covart, Marion I., Buffalo
 Covell, J. Victor, Minneapolis
 Cowell, Harold L., Farmington
 Coykendahl, Dorothy, St. Paul
 Craig, Margaret S., Minneapolis
 Creighton, Ralph H., Minneapolis
 Crowley, Cornelius T., Minneapolis
 Culbert, Edwin C., Eveleth
 Culver, Warren, Stillwater
 Curtis, Frederick A., Stillwater
 Daily, Marguerite, Dexter
 Dalton, Dorothy A., St. Paul
 Dargavel, Warren C., Morristown
 Darling, Charles E., Minneapolis
 Dart, Ivan H. S., Litchfield
 Davies, T. Ralph, Minneapolis
 Davis, Kenneth, Elk River
 Davis, Margaret J., Madelia
 Dawley, Leruh L., Minneapolis
 Dawson, Loren W., Minneapolis
 Day, Kingsley, Minneapolis
 De Carle, Donald W., Miles City,
 Mont.
 Dell, Roger L., Shakopee
 Dennison, Jeannette H., Minneapolis
 Desai, Ganpat B., Minneapolis
 Devine, Sadie I., St. Paul
 Dickinson, Camilla, Minneapolis
 Dickson, Margaret H., Minneapolis
 Diebolt, Victor A., Buffalo, N. Y.
 Diekmann, Elsa B., Spicer
 Dillon, Suzanne E., St. Paul
 Dixon, R. Kenneth, St. Charles
 Dobner, Dorothy A., St. Paul
 Dodds, Harold J., Oskaloosa, Iowa
 Dodge, Alice M., Minneapolis
 Donnelly, Frances, Fargo, N. D.
 Dunham, W. Clifford, Rochester
 Dunn, Emily, Minneapolis
 Dunn, Harriet O., Minneapolis
 Dunn, Margaret S., St. Paul
 Durden, Gustavus M., Minneapolis
 Durkee, Bernice V., Minneapolis
 Dvorak, Prokop, Hopkins
 Dwinell, James B., Minneapolis
 Dwyer, Mary K., St. Paul
 Dwyer, William D., Jr., St. Paul
 Dye, Lucy N., Duluth
 Edgar, Donald E., White Bear
 Edgerton, Karl A., St. Paul
 Edwards, Mabel D., Minneapolis
 Edwards, Marguerite, Minneapolis
 Egan, Frank M., St. Paul
 Egan, E. Merle, Sioux Falls, S. D.
 Egan, William H., Jr., St. Paul
 Eilers, Mrs. Sara E., Minneapolis
 Eisenstadt, David H., Minneapolis
 Eldridge, Charles H., Barnesville
 Elfenbein, Harold H., St. Paul
 Ellingson, Gillain E., Northwood, N. D.
 Elwell, George H., Minneapolis
 Endress, Edward, St. Paul
 Erdall, Marie J., Minneapolis
 Erdmann, C. Edgar, Minneapolis
 Eustis, Carol H., Minneapolis
 Eustis, Glen W., Minneapolis
 Evans, M. Tedd, Pipestone
 Ewaldt, Mildred A., Luverne
 Falconer, Rae, Alexandria
 Feeny, John M., Glenwood
 Fenley, Guy B., Laporte
 Ferrell, Glenn S., Minneapolis
 Fifield, Walter W., Minneapolis
 Finch, A. Louise, Minneapolis
 Fishbach, John W., Mellette, S. D.
 Fishman, Ely, Minneapolis
 Fitzpatrick, Ruth, Minneapolis
 Fjeld, Sverre P. L., Canby
 Flanagan, Arthur J., Minneapolis
 Flanagan, Daniel C., Minneapolis
 Flegelman, Rosa B., Wahpeton, N. D.
 Flynn, Clarence R., Minneapolis
 Foley, Arthur C., St. Paul
 Folkers, Carl, Ackley, Iowa
 Footh, L. Lloyd, Westbrook
 Forest, Helen H., Excelsior
 Forssell, Elisabeth, St. Paul
 Forster, Burton E., Minneapolis
 Fossen, George O., Starbuck
 Foster, M. Gertrude, Miles City, Mont.
 Frank, Cecelia, Minneapolis
 Frank, Samuel M., Hazen, N. D.
 Frankforter, Alice S., Minneapolis
 Frasier, A. Sudworth, Minneapolis

- Fredrickson, Clyde H., Minneapolis
 Fredrickson, Edwin L., Renville
 Freerks, Verna G., Ortonville
 Friedman, Dewey, Minneapolis
 Friedrich, Elsie, Hendricks
 Froshaug, John A., Benson
 Frost, Harriet G., Minneapolis
 Fruchtman, Louis, Minneapolis
 Frudden, Harold O., Charles City, Iowa
 Gabrielson, Harold, Dayton, Iowa
 Galloway, Virginia P., Park County, Mont.
 Gangelhoff, Henriella, Minneapolis
 Ganzkow, George E., Wells
 Gavin, Helen M., Minneapolis
 Gedney, Matt, Minneapolis
 Gehrand, Robert R., Minneapolis
 Getter, Isabelle M., Wadena
 Geyerman, Peter R., Brewster
 Gibbons, Florence, Minneapolis
 Gilbert, Leo S., Cloquet
 Gilbert, Rachel C., Proctor
 Gillece, Beatrice A., Minneapolis
 Gillesby, Ruth I., Minneapolis
 Ginsberg, Harry, Minneapolis
 Glasgow, Eugene C., Sioux Falls, S. D.
 Gleason, Hazel C., St. Paul
 Gleason, Winifred M., St. Paul
 Glotfelter, Laura, Waterville
 Goebel, Evelyn L., Minneapolis
 Gofen, Samuel, Duluth
 Goldberg, Isadore M., Minneapolis
 Goldman, Abe J., Minneapolis
 Goldstein, Herman A., Minneapolis
 Goode, David S., Minneapolis
 Goodfellow, S. Lee, Kenyon
 Gordin, Isaac, Minneapolis
 Gorst, Rachel, Minneapolis
 Gould, Roy R., Springfield
 Gould, Sheldon T., Minneapolis
 Grace, R. Virgil, Bismarck, N. D.
 Graham, Dinah M., Rochester
 Graham, Mabel L., Sauk Center
 Grampp, Marie, Minneapolis
 Graus, Chester L., Hastings
 Gray, James, Jr., Minneapolis
 Greer, Charles W., Minneapolis
 *Greig, Mary E., Estherville, Iowa
 Griswold, Leslie W., Minneapolis
 Grove, Inez W., Crosby, N. D.
 Grover, Lethe G., Grantsburg, Wis.
 Gruenhagen, D. Frederic, St. Paul
 Guimont, Andre O., Minneapolis
 Gujterman, Robert S., St. Paul
 Gullett, Elberta L., Minneapolis
 Gunderson, Carroll A., St. Paul
 Gustafson, C. Stewart, Minneapolis
 Gydesen, Carl S., St. Paul
 Habighorst, Bernice M., St. Paul
 Hackett, Petronella E. A., St. Paul
 Haefner, George E., Stillwater
 Hagan, Philip L., Glendive, Mont.
 Hagen, William H., Spokane, Wash.
 Hall, Frank E., Winnipeg, Man., Can.
 Hall, Howard C., Minneapolis
 Hall, Susan, La Porte, Texas
 Hallberg, Erda C., Minneapolis
 Hallowell, Frank G., St. Paul
 Hallstrom, Norman N., Minneapolis
 Halper, Philip A., St. Paul
 Hamblin, Florence T., Minneapolis
 Hamburg, Warren, Minneapolis
 Hamilton, Laura M., Minneapolis
 Hamilton, Samuel W., Britton, S. D.
 Hamlin, Frederic R., Chaska
 Hammer, Sidney R., Litchfield
 Hammond, John M., Minneapolis
 Hample, Paul G., Oakes, N. D.
 Hanft, Oscar H., Marinette, Wis.
 Hankins, Wallace W., Duluth
 Hanley, Franklin B., Minneapolis
 Hansen, Charles H., Minneapolis
 Hansen, Rorbye S., Gladstone
 Hanson, Arthur J., Belview
 Hanson, Clarence A., Faribault
 Hanson, Edith M., Minneapolis
 Hanson, Elmer P., Stewart
 Hanson, Raymond, Minneapolis
 Harmon, Gaius E., St. Paul
 Harrop, Helen G., St. Paul
 Hartung, Mary K., St. Paul
 Hartung, Vera, Dickinson, N. D.
 Hase, Fred W., Duluth
 Hastings, De Forest R., Minneapolis
 Hauser, Walter S., Minneapolis
 Havill, Oliver B., St. Paul
 Hayes, Elizabeth C., Minneapolis
 Heath, Howard V., Benson
 Heath, Katherine R., Minneapolis
 Hedman, Ruth L. H., St. Paul
 Heffernan, William T., Stillwater
 Hegg, Elmer B., Mabel
 Helm, Arthur R., Minneapolis
 Helme, Thomas P., Garretson, S. D.
 Helps, Arthur E., Eveleth
 Hemstead, Werner, Jr., Brainerd
 Hendricks, George, Minneapolis
 Herman, Arthur L., Minneapolis
 Herrick, Carol M., North St. Paul
 Hickok, Mary E., Owatonna
 Himel, Charles M., Minneapolis
 Hinckley, Harold F., Minneapolis
 Hinderaker, Elvira R., Minneapolis
 Hobart, Genevieve F., Minneapolis
 Hobbs, Ralph W., Minneapolis
 Hobe, Walter, St. Paul
 Hoepfer, Gertrude, Grand Rapids

*Died, February 17, 1917

- Hoese, William R., Spencer, S. D.
 Holdahl, Tilla M., Roseau
 Holland, Amanda L., Brown Valley
 Holliday, Preston H., Minneapolis
 Holm, Mildred, Minneapolis
 Holmes, Margaret J., St. Paul
 Holt, John E., Minneapolis
 Hooper, C. Floyd, Minneapolis
 Hoppe, William A., Minneapolis
 Hormel, Donald A., Austin
 Howarth, Margaret, Minneapolis
 Howes, Marion L., St. Paul
 Hrutford, Skuli, Duluth
 Hughes, Muriel E., Minneapolis
 Hughes, Stanley E., Harlan, Iowa
 Hukee, Bertha D., Minneapolis
 Hultquist, Carl E., Duluth
 Humiston, Dorothy, Worthington
 Humiston, Kathryn, Minneapolis
 Hunting, James G., Minneapolis
 Hurst, Hazel A., Minneapolis
 Hutchins, G. Warren, Minneapolis
 Hutchins, Helen, St. Paul
 Ingersoll, Georgiana, St. Paul
 Ingraham, Franc D., Minneapolis
 Irwin, Marion S., Minneapolis
 Jaax, Raymond F., Minneapolis
 Jackson, Helen R., St. Paul
 Jacobs, Harrison C., Woodstock, Va.
 Jacobs, Rose B., Wheeling, West Va.
 Jacobsen, P. Rolf, Minneapolis
 James, Lyle G., Paynesville
 Jamieson, Hazel M., Excelsior
 Jarvis, Paul G., Minneapolis
 Jensen, Leroy C., Minneapolis
 Jensen, Sidney W., Duluth
 Jensen, Chester W., Minneapolis
 Jenswold, Henry C., Duluth
 Johns, E. Jerome, Litchfield
 Johnson, Adelia H., Minneapolis
 Johnson, Catherine B., St. Paul
 Johnson, Catherine C., Minneapolis
 Johnson, Charles S., Minneapolis
 Johnson, Darrell F., St. Paul
 Johnson, Edith M., Minneapolis
 Johnson, Margaret C., St. Charles
 Johnson, Marguerite E., Minneapolis
 Johnson, Mildred E., Sauk Centre
 Johnson, Vivian W., Cedar Falls, Iowa
 Johnson, Walter, Minneapolis
 Johnston, Dorothy E., Luverne
 Johnston, Geraldine, Minneapolis
 Johnston, Kinsell, Langdon, N. D.
 Jordan, Ernest W., Rochester
 Joyce, Ian K., England
 Juvet, Obel, Ferndale, Wash.
 Kadletz, Ione M., Minneapolis
 Kalfahs, Karl A., Red Wing
 Kamman, Gordon R., St. Paul
 Kamman, Morris, St. Paul
 Kane, Lillian M., Minneapolis
 Kanter, Fannie H., Minneapolis
 Kearney, Gladys H., St. Paul
 Keely, Almour G., Lena, Ill.
 Kelley, Kenneth E., Minneapolis
 Kelley, William S., St. Paul
 Kellogg, Rhoda B., Minneapolis
 Kelly, John J., Devils Lake, N. D.
 Kelly, Marguerite J., Minneapolis
 Kelso, Ruth E., Minneapolis
 Kempton, William E., Morgan
 Kernan, Edward J., Two Harbors
 Kernan, Ruby L., Two Harbors
 Kilty, Katharine de S., Stillwater
 King, George A., Minneapolis
 King, Winfield, Austin
 King Sing, S. Won, China
 Kingsley, Beatrice R., Spring Valley
 Kinney, Vere M., Osseo
 Kirchner, William H., Minneapolis
 Kleppe, Evelyn L., West Union, Iowa
 Klepper, Dorothy E., Minneapolis
 Kline, Bonnie L., Minneapolis
 Kline, Harry W., Anoka
 Kline, Lila, Redwood Falls
 Klitzke, Garold O., Nicollet
 Klosterman, Dorothy J., St. Paul
 Knaeble, Urban F., Minneapolis
 Knapp, Wyllian, Mound
 Knudtsen, Earl A., Minneapolis
 Koons, Kora L., Minneapolis
 Kopeika, Moses, Minneapolis
 Korista, Frances, Hopkins
 Kregal, Harry, Minneapolis
 Kriedt, Corinne H., Minneapolis
 Krough, Laurene E., Minneapolis
 Krueger, Milton H., St. Paul
 Krugmeier, Gertrude H., St. Paul
 Kruse, Franklin B., Glenwood
 Kucera, Benjamin, Hutchinson
 Kueffner, Dorothy C., St. Paul
 Kuester, Edna V., Redwood Falls
 La Bossiere, Edith K., St. Paul
 Labovitz, Margaret M., Minneapolis
 Lammers, Wyman L., Minneapolis
 Lampi, Ernest W., Eveleth
 Lan, Benjamin, Worcester, Mass.
 Lande, Lynn E., McGrath
 Landis, Helen L., Minneapolis
 Landru, Dewey D., Hendricks
 Lang, Helen M., Minneapolis
 Larson, C. Walter, Herman
 Larson, Esther K., St. Paul
 Latham, Doris E., Howard Lake
 Latham, Wendell, Sandwich, Ill.
 Lax, Morris, Minneapolis
 Leavitt, F. Marie, Sioux Falls, S. D.
 Lefkóvitz, Herbert L., St. Paul

- Lehle, Louis H., Chicago, Ill.
 Lehrer, Viola, Springfield
 Leighton, Martha L., Minneapolis
 Lembke, Arthur, Appleton
 Lepeska, Frank W., Montgomery
 Lerner, Polly M., Minneapolis
 Leuthold, Dorothy G., Waseca
 Le Valley, Helen C., Minneapolis
 Lewis, Oscar E., Bagley
 Lieberg, Odd E., Minneapolis
 Lilly, George B., La Crescent
 Loftfield, Bergljot C., Minneapolis
 Lohmann, Paul K., Minneapolis
 Lomo, Paul H., Luck, Wis.
 London, Anna D., Minneapolis
 Lovelace, Delos W., Minneapolis
 Lueck, Gretchen L., Minneapolis
 Lufkin, Nathaniel H., St. Paul
 Lunche, Hymen M., Minneapolis
 Lundahl, William, Alpha
 Lundeen, Teckla, Grove City
 Lundquist, Olive J., Minneapolis
 Lux, Lydia, St. Paul
 Lyman, Olive E., Excelsior
 Lynch, Esther H., Minneapolis
 Lyon, Gertrude K., Little Falls
 McCall, Helen, Fromberg, Mont.
 McCarthy, M. Richard, Mountain Iron
 McClure, Warwick D., St. Paul
 McCormick, P. Benjamin, Hopkins
 McCoy, Willis M., St. Paul
 McCulloch, Margery, Minneapolis
 McDermott, Florence L., Clontarf
 McDonald, D. Ivan, Hawley
 McDougall, Eugene H., St. Paul
 McElligott, Edmund W., Appleton
 McElligott, William J., Appleton
 McGandy, F. Robert, Minneapolis
 McGeary, Clarence V., St. Paul
 McGowan, Leone C., Atwater
 McGuire, Helen A., St. Paul
 McHugh, Lauretta K., Lewistown,
 Mont.
 McNerny, Maurice W., Minneapolis
 McIntyre, Archie W., Minneapolis
 McKay, Jean L., Forest City, Iowa
 McKenna, Harold J., Lonsdale
 McKenna, F. Victor, Lonsdale
 MacKenzie, Charles A., Minneapolis
 McKeon, Helen J., Montgomery
 McKinnon, Myrl G., Minneapolis
 McLeod, Henry, Mt. Vernon, S. D.
 McMahan, Catherine C., Faribault
 McMann, Lyle A., Minneapolis
 McRae, Adair D., Minneapolis
 Maas, Melvin J., St. Paul
 Macdonald, Colin J., St. Paul
 Madigan, Frances M., Maple Lake
 Madland, Robert S., St. Paul
 Magnuson, Francis J., Big Fork
 Malmstrom, Rudolph, St. Paul
 Mandel, Mildred S., Biwabik
 Mann, R. Burr, Clark, S. D.
 Mannerberg, Mabel C., Minneapolis
 Mansfield, Clinton E., St. Paul
 Markham, Georgiana H., St. Paul
 Martin, Esther E., Minneapolis
 Martin, P. Hazel, Minneapolis
 Maslon, Samuel H., Minneapolis
 Mathews, Eleanore M., Minneapolis
 Matthews, Glenn E., Minneapolis
 Mattison, Mabel I., Minneapolis
 Mattson, Marion L., Excelsior
 May, Lovell H., St. Paul
 Mealey, Margaret E., Minneapolis
 Melamed, Louis, St. Paul
 Melgaard, Ruth, Minneapolis
 Mergens, Henrietta, Minneapolis
 Merrill, John W., St. Paul
 Messinger, Willet M., Minneapolis
 Meyerand, Gladys E., Minneapolis
 Michael, Genevieve E., St. Paul
 Miller, Albert, Spring Valley
 Miller, Charles R., LeRoy
 Miller, Milo V., Bismarck, N. D.
 Miller, Mollie A., Minneapolis
 Mitchell, Howard A., Minneapolis
 Mitchell, Louise, Jasper
 Mitchell, Myrtle, Eveleth
 Moberg, Vera L., St. Paul
 Moberg, Violet D., St. Paul
 Moffatt, Albert G., Howard Lake
 Moore, Evelyn M., Howard Lake
 Moore, James M., St. Paul
 Moore, J. Wilber, Hopkins
 Moore, Milton L., Minneapolis
 Moorhead, Wallace, Minneapolis
 Moriarty, Bernice M., St. Paul
 Morrison, Isabel B., Mobridge, S. D.
 Morrison, Virginia H., St. Paul
 Morse, George H., Minneapolis
 Morterud, Winifred L., Duluth
 Moss, Constance, Minneapolis
 Moss, Frederic H., St. Paul
 Mott, Florence, St. Paul
 Mott, Jessie H., Miles City, Mont.
 Movius, Clarence M., Lidgerwood,
 N. D.
 Movius, George, Lidgerwood, N. D.
 Mulligan, Etta M., Minneapolis
 Mulligan, James T., Minneapolis
 Munns, Emma, Minneapolis
 Munson, Leila E., St. Paul
 Murdy, Robert C., Aberdeen, S. D.
 Murphy, Leo B., Mapleton, N. D.
 Murphy, Lillian L., Tower
 Murphy, William H., Madison Lake
 Murray, Edith A., St. Paul

- Murray, Katharine, St. Paul
 Myhre, Sandy H., Luverne
 Negaard, Arnold M., Kerkhoven
 Neils, Gerhard F., Cass Lake
 Nelson, E. Wallace, Minneapolis
 Nelson, Evelyn K., Minneapolis
 Nelson, Guy A., Pelican Rapids
 Nelson, Mae L., Minneapolis
 Nelson, Norman E., Minneapolis
 Nelson, Paul C., St. Paul
 Nesbitt, Gertrude, Minneapolis
 Nesbitt, Norma F., Cambridge
 Nicholson, Astred J., Minneapolis
 Nickolson, Ragnhild H., Tower
 Nissen, Elizabeth, Minneapolis
 Nissen, Erwin A., Mahnomen
 Norman, A. Katherine, White Bear
 Norquist, Hazel M., Minneapolis
 Northey, Dean A., Minneapolis
 Norris, Lester S., Minneapolis
 Northfoss, Marie G., Minneapolis
 Norton, Henry W., Minneapolis
 Nygaard, Edwin M., Minneapolis
 O'Brien, Kenneth B., Minneapolis
 O'Connell, Dorothy, St. Paul
 O'Connor, Jennings, Renville
 O'Hagen, Alpha E. H., Minneapolis
 Olsen, Josephine E., Minneapolis
 Olsen, Paul B., Minneapolis
 Olson, Carl J. E., Minneapolis
 Olson, Lydda M., Minneapolis
 Olson, Margaret P., Holloway
 Olson, Willard C., Annandale
 Oppegaard, Chester L., Minneapolis
 Owen, Homer A., Minneapolis
 Owens, Elizabeth M., Hopkins
 Pacha, Edward D., Blackduck
 Palmer, Georgiana P., Stillwater
 Palmer, Nellie F., Madelia
 Parker, Mabel E., Sioux Falls, S. D.
 Patton, Eugene L., Minneapolis
 Paulson, Myrtle M., Minneapolis
 Peck, Laura S., Minneapolis
 Peppard, Melville J., Minneapolis
 Perchen, Francis, Minneapolis
 Person, Anna, Cooperstown, N. D.
 Peshak, Willard R., Austin
 Peterson, Alice M., Minneapolis
 Peterson, Elroy W., Willmar
 Peterson, J. Madeline, St. Paul
 Petraborg, Harvey T., Aitkin
 Philip, Gladys M., Minneapolis
 Phillips, Lorena I., Northfield
 Pierce, Alano E., Minneapolis
 Poehler, Corrine, Henderson
 Polczak, Jacob A., Minneapolis
 Pope, Charles S., St. Paul
 Pritchard, Donald B., Hibbing
 Quandt, Eberhart H., Stewart
 Rahn, Carl A., St. Paul
 Raiter, Roy F., Cloquet
 Rand, Clyde M., Minneapolis
 Randall, Gladys J., Minneapolis
 Randall, Ruth E., Minneapolis
 Rawlings, Mary E., Slater, Mo.
 Read, Marion B., Minneapolis
 Redlund, Edith M., Minneapolis
 Reed, Gertrude I., Minneapolis
 Reynaud, Annette M., East Orange,
 N. J.
 Ries, Ronald B., Billings, Mont.
 Riley, Agatha C.; Jordan
 Riley, Ivers W., Minneapolis
 Riley, Philip J., Round Lake
 Ristey, Charlotte O., Spring Grove
 Roach, Chester C., Bordulac, N. D.
 Roberts, Ellsworth A., Duluth
 Roberts, Hazel M., St. Paul
 Roberts, Milo G., Minneapolis
 Rochford, Alice, Minneapolis
 Rodgers, Frederick A., Minneapolis
 Rosen, L. Arthur, Minneapolis
 Rosenberg, E. Stanley, Minneapolis
 Roth, Alfred H., St. Paul
 Roulier, Emma, Minneapolis
 Kubertus, Roland C., Wagner, S. D.
 Russell, William A., Grand Rapids
 Rustad, Ivanhoe A., Minneapolis
 Rustad, Vivian B., Minneapolis
 Rybak, Clare, Pine City
 Rynda, Lionel A.; New Prague
 St. John, Clair H., Worthington
 Salmovitz, Abe L., Duluth
 Samels, Clare C., Minneapolis
 Sanborn, Maurine E., Minneapolis
 Sand, Alfred, Hutchinson
 Sandstrom, Randolph O., Cloquet
 Sawyer, Charles A., Minneapolis
 Scally, M. Lillian, Crow Agency,
 Mont.
 Schaffer, Betty, Minneapolis
 Scheldrup, Alfred H., Minneapolis
 Schilling, Florence, New Hampton,
 Iowa
 Schindel, J. Katherine, St. Paul
 Schmidt, Gretchen, Duluth
 Schmitt, Walter E., Minneapolis
 Schneider, Clara, Minneapolis
 Schouweiler, Austin, Fairmont, N. D.
 Schuler, Mildred L., St. Paul
 Schulz, Marion, St. Paul
 Schwab, Zena M., Minneapolis
 Schwanbeck, Roscoe E., Plainview
 Schwartz, J. Gilbert, Pipestone
 Schwartz, S. Sam, Minneapolis
 Schwerin, Amy R., Minneapolis
 Schwerin, Eleanor, Minneapolis
 Scott, Mildred E., La Crosse, Wis.

- Scott, Ulric C., St. Paul
 Seaman, Paul S., Faulkton, S. D.
 Segal, Abe, Minneapolis
 Segall, Samuel, Minneapolis
 Sellers, Galen K., Minneapolis
 Sether, Helen, Minneapolis
 Shallbetter, Bernice L., Minneapolis
 Shanedling, Harriet E., Virginia
 Shannon, Grace W., Minneapolis
 Sheehy, Florence M., Montgomery
 Shepard, Charles E., Minneapolis
 Sherman, John K., Minneapolis
 Sherman, Robert E., Minneapolis
 Siebel, William F., Wells
 Silber, Harold G., Mankato
 Simpson, Arthur R., Waterloo, Iowa
 Sinclair, Kenneth A., St. Paul
 Sitar, Richard F., Hopkins
 Skocdopole, Erwin F., Cohasset
 Skurdalsvold, Jennie, Minneapolis
 Sletner, Carl J., St. Paul
 Slocum, Tokie N., Minot, N. D.
 Smith, Gertrude, E., St. Paul
 Smith, William, Duluth
 Sosnovsky, Abe J., Duluth
 Sparboe, Anthony B., Webster City, Iowa
 Spurrier, Harry S., Minneapolis
 Stanley, Helen L., Minneapolis
 Staples, Stanley F., Minneapolis
 Stechman, Jeanette, Bemidji
 Stenborg, William A., Sacred Heart
 Stephen, Beulah M., Waltham
 Stephens, Florence, Minneapolis
 Stevens, Max F., Minneapolis
 Stolberg, Beatrice E., Carlton
 Storms, Frances E., Minneapolis
 Stovall, Webster E., Minneapolis
 Strang, Harvey W., Minneapolis
 Strickland, Paul J., Parkersburg, Iowa
 Studeman, Zora, St. Paul
 Sturdevant, Arthur A., Minneapolis
 Sullivan Eugene J., Heron Lake
 Sullivan, Verne T., Austin
 Sundby, Thorwald N., Rushford
 Sundkvist, Gerald E., St. Paul
 Sutherland, Kenneth H., Grand Rapids
 Svary, Elby V., Princeton
 Svedal, Signe B., Minneapolis
 Swain, Earl E., Minneapolis
 Swanson, Arthur W., Minneapolis
 Swanson, Edith M., St. Paul
 Swanson, Paul S., Akeley
 Swendseid, Clarence, Petersburg, N. D.
 Swensen, Clifford H., Minneapolis
 Swenson, Lisle B., Minneapolis
 Taber, Dean W., Park Rapids
 Tanem, Anna, Thief River Falls
 Taney, Clifford A., Jr., St. Paul
 Tapager, Cyril M., Lake Mills, Iowa
 Taylor, Harold V., Griswold, Iowa
 Taylor, Lillian L., Minneapolis
 Taylor, Paul, St. Croix Falls, Wis.
 Tenneson, Francis A., Minneapolis
 Terrett, Marguerite, St. Paul
 Terwilliger, Ruth, Frontenac
 Thomas, Charlotte E., Minneapolis
 Thompson, Harriet S., Minneapolis
 Thompson, Leah, Minneapolis
 Thorbus, Mabel K., Minneapolis
 Thorsen, Louise J., Minneapolis
 Thorsteinson, Erlind H., Minneapolis
 Thurber, Esther H., Minneapolis
 Thyberg, Helen M., Minneapolis
 Tift, Lewis W., Glencoe
 Tkach, Betty, St. Paul
 Tobin, Marie C., St. Paul
 Todt, Helen M., Minneapolis
 Tollefson, Donald G., Rochester
 Torinus, Helen M., White Bear
 Trainor, Paul M., Minneapolis
 Travis, Helen A., Minneapolis
 Treacy, Robert H., Jr., Bismarck, N. D.
 Treat, Floyd C., Minneapolis
 Troendle, Victor H., Jr., Minneapolis
 Truog, Nicholas W., Swanville
 *Tumansky, Michael H., Minneapolis
 Tupa, Frank J., Jr., Minneapolis
 Turner, Margaret E. H., Minneapolis
 Tuteur, Frederica M., Minneapolis
 Upham, Neil W., Duluth
 Van Buren, Erwin P., Minneapolis
 VandeGrift, Thomas O., Austin
 Van Duzee, Ruth, St. Paul
 Van Dyke, Florence E., Long Prairie
 Van Ness, Elise W., Minneapolis
 Van Ness, J. F., Jr., Minneapolis
 Van Tuyl, Katharine, Minneapolis
 Venberg, Arthur B., South Pasadena, Cal.
 Vickers, Florence M., Farmington
 Vogel, Vivian V., Minneapolis
 Wade, Marjorie D., Brookside
 Wagner, William T., Minneapolis
 Wagoner, Ruth E., Minneapolis
 Waldron, Rodney T., Rochester
 Walker, James H., Wykoff
 Wall, Lulu, Minneapolis
 Wallis, Ruth K., Minneapolis
 Watts, M. Sheldon, Crookston
 Webb, William H., Sandstone
 Weber, Evelyn M., Minneapolis
 Webster, Horace P., Minneapolis
 Wehmann Hermann C., Minneapolis
 Weis, Wallace D., Le Sueur

*Died, February 24, 1917.

Weisberg, Louis, Minneapolis
 Welch, Claire D., Owatonna
 Welch, Genevieve, Minneapolis
 Wellisch, Gertrude V., St. Paul
 Werlich, Carl A., Minneapolis
 Wertz, Marion M., Minneapolis
 Westcott, Donald V., Dennison
 Weymouth, C. Faye, Frazee
 Whitwell, Martha, St. Paul
 Wilk, Ethel H., Virginia
 Wilk, Madeline, Minneapolis
 Williams, Evered C., Hibbing
 Williams, Flora I., Sioux Falls, S. D.
 Williams, Henry L., Jr., Minneapolis
 Williams, Mary, Minneapolis
 Willoughby, Marion M., Minneapolis
 Wirth, Theodore R., Minneapolis
 Witzman, Melvin, Minneapolis

Wold, William R., Minneapolis
 Wolfson, Willfred, Minneapolis
 Wolpert, Elizabeth R., Olivia
 Woodle, Loren H., Austin
 Woodruff, Roland O., Minneapolis
 Wray, Mabel G., Hastings
 Wyatt, Alvin S., Minneapolis
 Yaeger, Carl L., St. Paul
 Ylvisaker, Ragnvald, St. Paul
 Young, E. Theron, St. Paul
 Young, Horace A., Chaska
 Younggreen, Winston D., Minneapolis
 Zeleny, Leslie D., Minneapolis
 Zellmer, Blanche A., Cobden
 Zesbaugh, Helen A., Minneapolis
 Zesbaugh, Martha W., Minneapolis
 Zimmerman, Edward H., St. Paul
 Zimmerschied, Charlotte E., Minneapolis

MID-YEAR FRESHMEN—60

Adams, Henry H., Minneapolis
 Amidon, Helen D., St. Paul
 Appleby, Edith, Minneapolis
 Bakke, Harold O., Minneapolis
 Baldwin, Arch E., Phoenix, Ariz.
 Barker, Catherine, Minneapolis
 Barrows, Lyman, Duluth
 Bates, Edmund E., Minneapolis
 Bell, Margaret A., Minneapolis
 Blumenthal, Jacob S., Minneapolis
 Broderick, Vere H., Minneapolis
 Chapman, Mary C., Minneapolis
 Chase, Frank R., Jr., Minneapolis
 Gardner, Grace, Minneapolis
 Geggie, James C., Jr., Minneapolis
 Gorovitz, Benedict, Minneapolis
 Graham, James S., Albert Lea
 Greenwood, Florence E., Minneapolis
 Halloran, Nell, Minneapolis
 Hallum, Ruth V., Minneapolis
 Hesse, Gerhardt, St. Paul
 Hesse, Will, St. Paul
 Hewett, Viva M., Billings, Mont.
 Hilgedick, Ralph V., St. Paul
 Hoffmann, Francis J., St. Paul
 Jaax, Hubert F., Minneapolis
 Jacobson, Louis, Fargo, N. D.
 Jacques, Wilfred, Duluth
 Justice, David W., Montevideo
 Kasherman, Bessie, Minneapolis

Kelly, Eugene C., South St. Paul
 Knutson, Martna T., Waseca
 Kuharsky, Johanna F., Minneapolis
 Lauritsen, Marna M., Minneapolis
 McCrea, Ruth M., Minneapolis
 Martin, Irene M., Minneapolis
 Mayer, George F. T., New Ulm
 Michael, Julius J., Jordan
 Morrow, Marion I., Davenport, Iowa
 Nelson, N. Harvey, Minneapolis
 Nystrom, Ruth G., Minneapolis
 Peterson, George W., Mayer
 Pope, Clarence C., Miles City, Mont.
 Quarters, Edwin N., Marquette, Mich.
 Reinfank, Burton D., Milwaukee, Wis.
 Ronkin, Ellen, Spring Valley
 Ronneberg, Arthur J., Escanaba, Mich.
 Sellin, A. Axelia, Minneapolis
 Smith, Aubrey C., Ladysmith, Wis.
 Spanier, David H., Minneapolis
 Stevens, Marjorie C., Minneapolis
 Sullivan, Marguerite M., Minneapolis
 Sund, A. Ingeborg, Minneapolis
 Tufty, Norman H., Duluth
 Van Cura, Anna, Lakefield
 Wackerman, Edward H., Minneapolis
 Walters, Gladys, Minneapolis
 Warner, Wendell E., Minneapolis
 Youngs, Mrs. Nina L., Minneapolis
 Zanger, Eugene, Minneapolis

UNCLASSIFIED—121

Akre, Mrs. Helen R., Minneapolis
 Aldrich, Malcolm, Minneapolis
 Anderson, Mrs. William, Minneapolis
 Arthur, Mary G., St. Paul

Babcock, Mrs. W. M., Minneapolis
 Barber, Mrs. Anabel R., Minneapolis
 Baston, Carolyn B., York Harbor, Me.
 Bell, Mrs. Margaret M., Minneapolis

- Berg, Violet N., St. Paul
 Berge, Mary O., Minneapolis
 Berger, Edla G., St. Paul
 Berger, Luella, Minneapolis
 Boquist, Harold S., Minneapolis
 Bridston, Olga A., Minneapolis
 Brown, Rena G., Minneapolis
 Burns, Mrs. Louise H., Minneapolis
 Byers, Paul H., Minneapolis
 Cady, Kathryn R., Minneapolis
 Calder, Isabel M., St. Paul
 Capser, Gertrude E., St. Paul
 Chesnutt, Mrs. Clara S., Minneapolis
 Clark, Louise M. C. P., St. Paul
 Cook, Florence M., Minneapolis
 Corneal, Grazia, Minneapolis
 Crosby, Ruth E., St. Paul
 Dahl, Dora, Downsville, Wis.
 Dahlquist, John E., Minneapolis
 Dashiell, John F., Minneapolis
 Drake, Alice C., St. Paul
 Dwyer, Mary K., St. Paul
 Dyar, Edna G., Minneapolis
 Eastburg, Fred, Minneapolis
 Edsten, Doris M., Minneapolis
 Emmons, Mrs. Virginia, Minneapolis
 Forrest, Marian M., Minneapolis
 Fossum, Edith, Fergus Falls
 Fraser, Mary, Minneapolis
 Gibson, Edith I., Minneapolis
 Gross, Leonard A., Minneapolis
 Halverson, Stanford C., Minneapolis
 Halverson, W. Stanton, Minneapolis
 Hawthorn, Elizabeth, Brooklyn, N. Y.
 Hickcock, Florence, Minneapolis
 Hill, Virginia W., St. Paul
 Holbrook, David H., Minneapolis
 Holm, LeRoy C., St. Paul
 Howie, Will P., Minneapolis
 Hunt, Claudia E., Minneapolis
 Johnston, Emily, Minneapolis
 Johnston, Mrs. Helen B., Minneapolis
 Kehres, Harvey E., Minneapolis
 Kittredge, Florence, Minneapolis
 Knopp, Isabel, St. Paul
 Lansing, Effeda H., St. Paul
 Larsen, Esther E., Bemidji
 Lawler, Lawrence K., Minneapolis
 Lockwood, Mrs. Gertrude W., Minneapolis
 Lommen, Georgina L., Caledonia
 McAlpine, Dale K., Minneapolis
 McCarty, Mrs. Edward P., Minneapolis
 McCune, Anne L., Minneapolis
 McIntire, Julia M., St. Paul
 McNamara, Frances E., Jefferson, Iowa
 McRaith, Michael, St. Paul
 Manahan, Kathryn, St. Paul
 Martin, Ethel M., St. Paul
 Mathieson, Doris E., Little Falls
 Mayer, Mrs. L. Sidney, Minneapolis
 Mecker, Mrs. Harriet T., Minneapolis
 Michelstetter, Frances C., Sioux City,
 Iowa
 Miller, Adolph H., Kenneth
 Mitchell, D. C., St. Paul
 Morehouse, Mrs. Leah, Minneapolis
 Newell, Margaret M., Morris
 Nicholson, Clarke, Minneapolis
 Nobbs, Arthur H., St. Paul
 O'Connell, Mary, La Crosse, Wis.
 O'Neill, Francis L., St. Paul
 Oberg, Ezra N., Minneapolis
 Oerting, Ella, St. Paul
 Olson, Adolf, St. Paul
 Opdycke, S. Hazel, New Hampton, Iowa
 Page, Mae C., Minneapolis
 Paige, Ellen C., Dawson
 Pearce, Mrs. Elizabeth H., Minneapolis
 Petersen, Rodney T., Minneapolis
 Plummer, Willis J., Minneapolis
 Powell, Mrs. Clara E., Toronto, Canada
 Prindle, Henrietta, Minneapolis
 Regan, Grace H., Minneapolis
 Richardson, Marie E., Minneapolis
 Rutherford, Violet M., St. Paul
 Schabert, Joseph A., St. Paul
 Schmechel, Ewald J., Fairfax
 Schmidt, Edith M., New Ulm
 Schweska, Lyle J., Minneapolis
 Severson, Albert C., Waldville, Sask.,
 Canada.
 Sharrot, Georgianna L., Minneapolis
 Shelley, Margaret A., St. Paul
 Smith, Edna R., Minneapolis
 Smith, Mrs. Grace W., Minneapolis
 Smithies, Elsie M., Wausau, Wis.
 Spicer, Mrs. Alice C., Spicer
 Steinhauser, Gretchen, New Ulm
 Taylor, Dorothy E., Minneapolis
 Thelander, Roy F., St. Paul
 Thomas, Russell D., Des Moines, Iowa
 Thompson, Barbara A., Glenwood
 Thompson, Shirley P., Minneapolis
 Thorpe, Christian S., Minneapolis
 Troupe, James E., Minneapolis
 Vance, Mrs. Anne H., Minneapolis
 Vance, Ethel G., Crookston
 Viets, Howard T., Minneapolis
 Vos, Edward H., Minneapolis
 Washburn, Beatrice, Minneapolis
 Waters, Vera E., Minneapolis
 Webster, Margaret B., St. Paul
 Weiss, Louis R., Minneapolis
 Wick, James L., Minneapolis
 Ziegler, Mildred R., Minneapolis

ARTS AND MUSIC

SENIORS—4

Cooke, Frederick A., St. Paul
Edelman, Stella S., St. Paul

Moriette, Gladys, Minneapolis
Nelson, Grace I., Minneapolis

JUNIORS—4

Cronan, Esther, Minneapolis
Friedl, Irene M., Gibbon

Gaver, Dorothy, St. Paul
Meder, Dorothy, Minneapolis

SOPHOMORES—30

Berry, Bernice, Missoula, Mont.
Cotton, Edith M., Minneapolis
Covart, Helen W., Buffalo
De Bar, Dorothy G., Waseca
Elken, Helen L., Mayville, N. D.
Everett, Ruth H., Redfield, S. D.
Fitzsimmons, Anne, Minneapolis
Gangestad, Viola, Bode, Iowa
Greenberg, Maybelle, St. Paul
Hanson, Agnes L., Minneapolis
Hoban, Julia, Benson
Hollenbeck, Frances C., Minneapolis
Oldre, Ferdinand J., Minneapolis
Probert, Jean E., Minneapolis
Robbins, Nellie S., Willmar

Rosenberg, Gladys M., Estherville, Iowa
Ross, Ruth C., Crystal Falls, Mich.
Sather, Cora O., Cottonwood
Schaller, Gertrude A., Minneapolis
Schlener, Mildred A., Minneapolis
Schoch, Florence J., St. Paul
Sherwood, Lura, Doland, S. D.
Slocum, Doris M., St. Paul
Smith, Jeannette L., Minneapolis
Sondergaard Ragni H., Minneapolis
Wanous, Lillian A., Glencoe
Watson, Edith M., White Bear
Webber, Angeline, Minneapolis
Will, Leona L., Minneapolis
Woehler, Pernice G., Minneapolis

FRESHMEN—20

Baker, Elva J., Ladysmith, Wis.
Barnard, Katherine M., Crystal Bay
Beattie, Cecile A., Little Falls
Boehning, Wilhelmina K., Minneapolis
Estabrooks, H. Hortense, Minneapolis
Farley, Ligouri, Minneapolis
Floren, Muriel N. E., Bismarck, N. D.
Fritsche, Dorothy, Minneapolis
Gedney, Ruth, Minneapolis
Gluck, Valida M., Minneapolis

Hamack, Claire H., Minneapolis
Hauser, Gertrude, St. Paul
Holt, Lyla E., Bingham Lake
Koepsel, Lydia A., Groton, S. D.
Lord, Josephine F., Minneapolis
MacEachran, Agnes R., St. Paul
Morrissey, Honor L., St. Paul
O'Neil, Olive, St. Paul
Powers, Esther C., Minneapolis
Shelly, Ida G., Minneapolis

THE COLLEGE OF ENGINEERING AND ARCHITECTURE

POST SENIORS—26

Civil Engineers—7

Bruce, Hjalmar N., Minneapolis
B.S. in Eng., Minnesota, 1916
Carlson, Anders J., Minneapolis
B.S. in Eng., Minnesota, 1916
Doell, Charles E., Minneapolis
B.S. in Eng., Minnesota, 1916

Johnston, Ralph E., St. Paul
B.S. in Eng., Minnesota, 1916
Knauss, Archibald C., Morristown
B.S. in Eng., Minnesota, 1916
Peterson, Harold L., Granite Falls
B.S. in Eng., Minnesota, 1916
Rader, Clarence M., Delano

Electrical Engineers—14

Abbott, Amos H., St. Paul B.S. in Eng., Minnesota, 1916	Irwin, Frank H., Two Harbors B.S. in Eng., Minnesota, 1916
Anderson, Frank L., St. Paul B.S. in Eng., Minnesota, 1916	Loye, Donald P., Minneapolis B.S. in Eng., Minnesota, 1916
Blomberg, Evar H., Bertha B.S. in Eng., Minnesota, 1916	Mori, Nathaniel R., Japan B.S. in Eng., Washington, 1915
Butterworth, Russell I., Minneapolis B.S. in Eng., Minnesota, 1916	Tallmadge, Hiram A., Minneapolis B.S. in Eng., Minnesota, 1916
Dow, William G., Faribault B.S. in Eng., Minnesota, 1916	Teberg, Ernest J., Litchfield B.S. in Eng., Minnesota, 1916
Edelman, Philip E., St. Paul B.S. in Eng., Minnesota, 1916	Thompson, Jesse L., Minneapolis B.S. in Eng., Minnesota, 1916
Gannett, Danforth K., Minneapolis B.S. in Eng., Minnesota, 1916	Turnquist, Axel A., Eveleth B.S. in Eng., Minnesota, 1916

Mechanical Engineers—5

Ek, G. Albin, Minneapolis	Ritchie, John R., Spokane, Wash. B.S. in Eng., Minnesota, 1916
Johnson, Ira L., Becker B.S. in Eng., Minnesota, 1916	Stone, Charles W., Minneapolis B.S. in Eng., Minnesota, 1916
Moody, Chester S., Minneapolis B.S. in Eng., Minnesota, 1916	

SENIORS—63

Civil Engineers—10

Boyce, Ellsworth R., Hopkins	Luxford, Ronald F., Minneapolis
Brataas, Mark, Minneapolis	McMillan, James S., St. Paul
Douglass, Addison H., Minneapolis	Riekman, Herman W., Minneapolis
Linden, Henning, Minneapolis	Tryon, Philip D., Minneapolis
Luplow, Walter D., Cottonwood	Wolfangle, Raymond J., St. Paul.

Electrical Engineers—21

Becker, Ward E., Virginia	Malmstrom, Axel L., Marquette, Mich.
Boyum, Irwin L., Minneapolis	Mangney, Elmer J., Minneapolis
Carlson, Chauncy M., Minneapolis	Melby, Einar C., Minneapolis
Dunlap, L. J., Independence, Iowa	Rothschild, Harold L., Le Mars, Iowa
Ebert, Sol B., St. Paul	Scott, Willard W., Wilmot, S. D.
Eckenbeck, Everett E., Appleton	Swenson, George W., Willmar
Jacobs, Arthur R., St. Paul	Thomas, William A., Minneapolis
Juvrud, Edwin C., Rothsay	Wheeler, Herbert H., Austin
Lewis, Carroll E., Long Prairie	Williams, Fred J., Forest Lake
Lilly, Clarence W., Minneapolis	Willis, Benjamin S., Janesville
McKibben, Ray, Webster, S. D.	

Mechanical Engineers—22

Anderson, Edward I., St. Paul	Guggisberg, Charles F., Minneapolis
Boehnlein, Charles, Minneapolis	Hektner, Joel, Mooreton, N. D.
Bros, Ernest T., Minneapolis	Holmstine, Arthur G., St. Paul
Brown, Homer L., Minneapolis	Hvoslef, F. Waldemar, Minneapolis
Carlson, A. Paul, Minneapolis	Jones, Edwin F., Minneapolis
Eustis, Irving N., Minneapolis	Knutson, Harry, Minneapolis
Gerlach, Arthur C., St. Paul	Larson, Victor F., Virginia

Murray, John H., Marquette, Mich.
 Nelson, Otis S., Red Wing
 Powell, Knox A., Weyburn, Sask.,
 Canada
 Rollman, Edwin, Chilton, Wis.

Romero, Cirilo, Havana, Cuba
 Rosenbloom, Abraham E., Minneapolis
 Swenson, Clarence Q., Minneapolis
 Taylor, Duane L., Mandan, N. D.

Architects—10

Brown, Floyd W., Pipestone
 Buckhout, Donald H., Toledo, Ohio
 Ellingsen, Willeik E., Duluth
 Gilman, Howard B., Minneapolis
 King, Harvey M., Byron

Kreinkamp, Linton H., Minneapolis
 Mixer, Walter R., St. Paul
 Poulsen, George F., Chicago, Ill.
 Prudden, George H., Jr., St. Paul
 Riedesel, George M., Crookston

JUNIORS—82

Civil Engineers—25

Battles, Leon E., Bemidji
 Bleifuss, Donald J., Stewartville
 Brobaugh, Gustave C., Washington, D. C.
 Chamberlain, Herbert D., St. Charles
 Craig, D. Stewart, Minneapolis
 del Plaine, Carlos W., Minneapolis
 Deutsche, Richard E., Minneapolis
 Eliassen, Sigurd, Norway
 Fitzgerald, William J., Duluth
 Friar, Floyd M., Minneapolis
 Gould, Edward S., Minneapolis
 Gould, Reed D., Minneapolis
 Hansen, Herbert V., Churchs Ferry, N. D.

Johnson, B. Fillmore, Minneapolis
 Juster, Charles H., Minneapolis
 Keen, Harold C., Minneapolis
 Larson, Amandus C., Minneapolis
 Nickerson, Neal C., Elk River
 Olson, Roy G., Duluth
 Purdy, Irving B., Monitor, Alta., Canada
 Roche, John P., Harmony
 Sherwood, Edward B., Minneapolis
 Simmons, Henry E., St. Paul
 Smolensky, Martinian G., Minneapolis
 Swenson, John F., Superior, Wis.

Electrical Engineers—24

Aske, Irving E., Duluth
 Bauer, Ruben B., Minneapolis
 Brooke, Harold L., Minneapolis
 Firth, Deane S., Lewiston
 Gibbs, Clayton T., Minneapolis
 Grimes, David, Minneapolis
 Hartig, Henry E., Minneapolis
 Hotchkiss, Fred W., St. James
 Johnson, Arnold T., Two Harbors
 Levin, Jake M., Minneapolis
 Mickelsen, Stanley R., St. Paul
 Miller, George W., St. Paul

Mitchell, Alexander C., Norway
 Molskness, Nels S., Colman, S. D.
 Northey, Melvin T., Hibbing
 Peterson, Vance C., Willmar
 Plank, Howard G., Minneapolis
 Ross, Russell H., Duluth
 Schlenk, Hugo, Jr., Cloquet
 Shebat, Herbert V., Minneapolis
 Sher, Israel R., Hibbing
 Smith, Donald C., Mankato
 Smith, Hugh A., Red Wing
 Talbot, Thomas F., Minneapolis

Mechanical Engineers—20

Abrahamson, Howard B., Lindstrom
 Anderson, Hilder A., Minneapolis
 Ball, Hampton B., Troy, Mo.
 Bierman, George H., Detroit
 Eldridge, Francis F., St. Paul
 Fortune, Harry G., St. Paul
 Francis, Paul E., Minneapolis
 Gerow, Theron G., Minneapolis
 Greenberg, Morris, St. Paul
 Hagerman, Oliver S., Morris

Kirley, Ray C., Appleton
 Michaels, Oliver M., Minneapolis
 Moffat, George N., Minneapolis
 Müller, Carl C., Gibbon
 Rhame, Paul W., Minneapolis
 Russell, John A., Minneapolis
 Siekkinen, Charles A., Duluth
 Von Rohr, Herbert H., Winona
 Wallfred, John E., Minneapolis
 Waterous, Fred A., St. Paul

Architects—7

Forsberg, Enock E., Minneapolis	Lyon, Glenn H., Iowa Falls, Iowa
Fraser, George, St. Paul	Moorman, Albert J., St. Paul
Jerrard, Ralston, St. Paul	Raugland, Arnold I., Minneapolis
Kaplan, Seeman, Minneapolis	

General Course in Engineering—6

Briggs, H. Kenneth, Minneapolis	Madsen, Olav, Litchfield
Didriksen, Philip H., Minneapolis	Peterson, Harold R., Minneapolis
Lilly, Eugene J., St. Paul	Randall, Larcom, St. Paul

SOPHOMORES—174

Civil Engineers—41

Beinhorn, William P., St. Paul	Iistrup, Elvin O., Willmar
Berg, Karl A. E., Minneapolis	Jacobson, Howard C., Minneapolis
Botvidson, Clarence E., Calumet, Mich.	Johnson, Conrad G., Duluth
Brown, George L., Le Roy	Newstrom, Paul J. Minneapolis
Butler, Leo, St. Paul	Pabst, Henry A., Hibbing
Capstick, Donald W., Minneapolis	Patch, Ion R., Minneapolis
Chard, Harold E., Hastings	Petersen, Albert E., Blooming Prairie
Christilaw, George M., Glenwood	Prudden, Weston D., Duluth
Coe, Edward H., Duluth	Robbers, Joseph C., Sauk Rapids
Cribbs, Harry E., St. Paul	Rosenthal, Oscar L., Minneapolis
Davey, Roland W., Eveleth	Sawyer, George A., Warroad
Davies, Edwin S., Lake Crystal	Seemann, Ernest W., Highmore, S. D.
Elstad, Rudolph T., Independence, Wis.	Small, Cecil J., Kalispell, Mont.
Friesen, Henry, Gretna, Man., Canada	Spence, Enoch W., St. Paul
Greene, Herbert E., Red Wing	Teberg, Lawrence E., Litchfield
Haldeman, Wellington W., Minneapolis	Tillema, Charles, Orange City, Iowa
Halladay, Leslie L., Brainerd	Wells, Harvey B., Brewster
Hanke, Carl C., St. Louis Park	Werdenhoff, James H., Minneapolis
Hawlick, Henry I. W., Silver Lake	Woolstencroft, William A., Fulda
Headley, Holland C., St. Paul	Young, Joseph E., Minneapolis
Hole, Roger M., Minneapolis	

Electrical Engineers—51

Anderson, C. Herbert, Eveleth	Johnson, Horace E., Minneapolis
Anderson, Leslie H., St. Cloud	Jordan, Frank W., Great Falls, Mont.
Anderson, N. Seyrin, Watson	Kingsley, Norman W., Spring Valley
Beliveau, Arthur A., St. Paul	Klass, Frederick, Hibbing
Butchart, James E., Duluth	Kristensen, Oscar E., Wheaton
Cairncross, Reynolds L., St. Paul	Langland, Harold S., Butterfield
Chalmers, Royce, Minneapolis	Lee, Oscar C., Glenwood
Christensen, Edgar W., Little Falls	Loye, Harry A., Red Wing
Clawson, Rex H., Wamego, Kan.	McKenzie, Leonard F., Adrian
Cotton, Ernest H., Rochester	MacRae, Donald, St. Paul
Drinkall, J. Freeman, Princeton	Marshall, Donald E., Red Lake Falls
Ellestad, Irvin M., Lanesboro	Martin, William M., Gardner, Mass.
Evanson, Clifford A., Montevideo	Mayer, Albert F., St. Paul
Gillfillan, Jay E., Watseka, Ill.	Nelson, G. Raymond, Minneapolis
Gujer, Elton H., Duluth	Nelson, Gustaf A., Hastings
Hartman, Walter K., Cedar Rapids, Iowa	Noel, Clay W., Minneapolis
Hull, Maurice B., Marshalltown, Iowa	Olson, Richard H., Mazeppa

Peterson, Arthur P., Stillwater
 Petrich, Alfred C., Plainview
 Pierson, Joe, Minneapolis
 Reeve, Charles H., Washington, Ind.
 Rose, Reed A., Mankato
 Rounds, Charles K., St. Paul
 Saari, Hans, Aurora
 Sander, Theodore, Jr., St. Paul
 Schwartz, Louis F., Minneapolis

Segelbaum, Charles S. M., Minneapolis
 Sonaglia, Joseph N., Hibbing
 Swanson, Edwin W., Hopkins
 Sweet, Ray R., Le Roy
 Thomas, Albert D., Minneapolis
 Wallace, Merrill C., Minneapolis
 Welsh, Harvey A., Winnebago
 Westerman, Rodolpho G., Brazil

Mechanical Engineers—35

Arneson, Lloyd O., Minneapolis
 Arnowitz, Harry, St. Paul
 Baker, Arthur, Deer River
 Bros, Raymond J., Minneapolis
 Carlson, Einar C., Minneapolis
 Cosh, Richard A., Elbow Lake
 Doane, F. Wayne, Plainview
 Dowd, Archie J., Minneapolis
 Elliott, Harry C., Sauk Center
 Farmer, John W., Minneapolis
 Fleury, Edward H., Duluth
 Foltz, Ross M., Princeton
 Greenman, Allan E., St. Paul
 Gustafson, Charles R., Duluth
 Hartzberg, Edward M., Minneapolis
 Hayes, Edward J., Minneapolis
 Hayner, F. H., Bemidji
 Hulstrand, Arthur G., Hibbing

Johnson, Carl A., St. Paul
 Kennison, Leon D., Minneapolis
 Lagerquist, Carl, Minneapolis
 Lewis, George R., St. Paul
 McCauley, Howard W., Bald Eagle
 Mattson, Chester J., Excelsior
 Nelson, Clarence A., Crosby
 Nichols, J. Monroe, Minneapolis
 Niemann, Frank H., New Ulm
 Paegel, Hollis A., Minneapolis
 Parker, Leslie W., Rainy River, Ont.,
 Canada
 Pavek, William J., New Prague
 Swigart, Franklin J., Minneapolis
 Tryon, Richard M., Minneapolis
 Umbecker, Frank, Princeton
 Williams, Arthur H., Minneapolis
 Wunderlich, Milton S., Faribault

Architects—23

Allum, Ralph D., Peoria, Ill.
 Blacktin, Ralph L., St. Louis Park
 Buenger, Edgar W., St. Paul
 Dasset, Myron R., St. Paul
 Dawson, John W., Minneapolis
 Deane, George B., Minneapolis
 Deneen, David, Litchfield
 Emery, George C., Waltham, Mass.
 Gerlach, Henry C., Mankato
 Haines, Howard N., Minneapolis
 Hammett, Ralph W., Mankato
 Hills, Yale D., Minneapolis

John, Edward O., St. Paul
 Johnson, Edward L., St. Paul
 Kreinkamp, Herbert A., Minneapolis
 Latta, Milton M., Goshen, Ind.
 Loye, Edwin M., Minneapolis
 MacDougall, William H., Minneapolis
 Melander, Albin R., Duluth
 Quinn, Gertrude M., Minneapolis
 Reishus, Ben, Rushford
 Schwartz, John S., Minneapolis
 Wright, Stewart V., Dennison

General Course in Engineering—24

Baldwin, Stephen T., Washington, D. C.
 Benz, Herbert G., St. Paul
 Donnelly, Lloyd W., Anoka
 Gee, George C., Minneapolis
 Gee, Harry J., Minneapolis
 Gracie, Ralph D., Bemidji
 Greenman, Ralph A., Minneapolis
 Hanson, Harold F., St. Paul
 Kappahn, Harvey E., Alexandria
 Kelley, William S., Jr., Long Lake

Langford, William R., Jr., St. Paul
 Leahy, James M., Maple Lake
 McMurrin, John P., St. Paul
 McPharlin, Albert B., Minneapolis
 Mabuth, Oscar A., Minneapolis
 Merrill, Lewis E., Minneapolis
 Myers, Roy D., Marshalltown, Iowa
 Papenthien, Roy O., Milwaukee, Wis.
 Peterson, Albert E., Crookston
 Peterson, Atry H., Eveleth

Rawlings, Carlos V., Minneapolis
 Richal, Merton A., Excelsior

Tyra, Arthur F., Minneapolis
 Warren, Page D., Minneapolis

FRESHMEN—163

Civil Engineers—20

Alexander, George D., Minneapolis
 Bastian, Francis H., New Ulm
 Dever, Francis A., Duluth
 Godwin, Kenneth A., Fargo, N. D.
 Gronvall, Arnold, Minneapolis
 Hansen, Carlos C., St. Paul
 Horwitz, Aaron, Minneapolis
 Jacobsen, Oscar T., Racine, Wis.
 Lende, Henry M., Granite Falls
 McGough, John J., Benson

Markson, C. W. Orrin, Owatonna
 Pless, Arnold G. M., Cresco, Iowa
 Ranseen, Rudolph H., St. James
 Stanley, Harry W., Genoa, Ill.
 Sushansky, Harry M., Minneapolis
 Thompson, Claudius A., Alexandria
 Vallacher, Theodore, Minneapolis
 Viles, Ralph K., Minneapolis
 Weber, Ludwig J., Richmond
 Wood, Victor R., Minneapolis

Electrical Engineers—58

Anderson, Edward S., Warren
 Anderson, Harold A., Minneapolis
 Anderson, Matthew A., Wibaux, Mont.
 Barger, Harold L., Gaylord
 Barnes, Dean, Vernon Center
 Beardmore, Albert E., Warren
 Brince, Frank J., Eveleth
 Carlson, C. Philip, Stillwater
 Case, Gerald F., Great Falls, Mont.
 Clark, John S. D., Minneapolis
 Cleary, Harold F., South St. Paul
 Dennis, Eben R., Hutchinson
 Donahoe, Robert E., Slayton
 Dornberg, Wallace L., Minneapolis
 Ellsworth, Charles D., Minneapolis
 Fischer, Robert M., Minneapolis
 Garthus, Ira B., Independence, Wis.
 Goss, Harold R., Le Roy
 Halverson, Arthur J., Cut Bank, Mont.
 Hammerstrom, Aleck A., Duluth
 Hamre, Herman G., Granite Falls
 Hayward, Lawrence, Pine Island
 Heinemann, J. Robert, St. Paul
 Hendrickson, Arnold, Minneapolis
 Hoag, John B. J., Minneapolis
 Holmer, Valentine C., Norway
 Horning, James J., Albert Lea
 Hougan, Sander, Great Falls, Mont.
 Hunt, Gates E., Aberdeen, S. D.

Jules, Harold A., Minneapolis
 Knowles, Everett H., St. Paul
 Koch, Karl, St. Paul
 Kruse, Orlin O., Brownton
 Kuester, Edward A., Redwood Falls
 Larson, Walter J., Willmar
 Lee, Walter J., Cannon Falls
 Lockwood, Raymond A., Enderlin, N. D.
 Lundquist, Byron F., Warren
 McGill, Reginald, Minneapolis
 Martin, Curtis R., Merrill, Wis.
 Matthews, Harry E., Glendive, Mont.
 Mattson, Alvin R., Dassel
 Nelson, Clarence L., Benson
 Palmeter, Donald H., Roundup, Mont.
 Pearson, Emil, St. Louis Park
 Peterson, P. Irvin, Willmar
 Porter, Thurman H., Willmot, S. D.
 Post, Foster M., Le Mars, Iowa
 Price, Clarence R., Minneapolis
 Rathert, Will P., Cresco, Iowa
 Rihl, Christian, Belle Plaine
 Satori, Roy H., Wabasha
 Siegmann, Chester, Minneapolis
 *Snow, Fayette H., Minneapolis
 Steffens, Robert A., Worthington
 Swanson, Robert W., Minneapolis
 Wichman, Martin F., St. Paul
 Wilson, P. Raymond, Bowman, N. D.

Mechanical Engineers—24

Acomb, Harold L., Minneapolis
 Anderson, Helmer N., St. Paul
 Ashley, C. Clifford, Minneapolis
 Aure, Roy, Canby
 Colby, Donald H., St. Paul

Curtis, Verne F., Minneapolis
 Czock, Jacob H., Minneapolis
 Fraser, Donald E., St. Paul
 Furnholmen, Erik, Minneapolis
 Hennessey, Richard F., Hayward, Wis.

*Died, May 3, 1917

Hulstrand, Arthur G., Hibbing
 Leach, Elmer W., Minneapolis
 McVean, Norman S., Minneapolis
 Metzner, Russell W., Indianapolis, Ind.
 Mirviss, Harold J., Minneapolis
 Odegaard, Harold, Kenyon
 Oldberg, Godfrey, Minneapolis

Paulsen, Eugene, Minneapolis
 Reasoner, Clayton M., New Brighton
 Roskovick, Leon E., Minneapolis
 Rynda, Edwin F., New Prague
 Steffens, David B., Spring Valley
 Tuve, George L., Canton, S. D.
 Webb, Guy H., Minneapolis

Architects—25

Anderson, Milton J., Duluth
 Anderson, Milton L., Swea City, Iowa
 Countryman, Donald F., St. Paul
 Cunningham, Thomas V., Casey, Iowa
 Davidson, Howard M., Waseca
 Duxbury, Bernice R., St. Paul
 Ellison, Donald H., Minneapolis
 France, Louise, Eyota
 Haase, Carl D., Casselton, N. D.
 Johnson, Alvin F., St. Paul
 Karlstrom, Walfred E., Moorhead
 Kendall, D. Matthew, Willard, Kan.
 Kleinschmidt, Florian A., Mankato

Lightbourn, Alice F., Ada
 Lin, Shu-min, China
 McKay, James H., Waucoma, Iowa
 Markuson, Miner J., Madison
 Munson, Floyd H., South St. Paul
 Siebel, William F., Wells
 Sjogren, Carl J., Minneapolis
 Spanier, Henry G., Minneapolis
 Strong, Sidney M., Atwater
 Townsend, Marion J., Pine Island
 Wigington, Paul P., St. Paul
 Wong, Som Quong, China

General Course in Engineering—12

Baumeister, William G., St. Paul
 Dahl, Melvin C., Minneapolis
 Fitch, Harold M., St. Paul
 Holmgren, Walter L., Minneapolis
 Ingemann, William, St. Paul
 Moore, Clarence, Minneapolis

Noble, John F., Minneapolis
 Pino, H. Milton, St. Paul
 Smith, Clinton F., New Richmond, Wis.
 Stremel, Walter E., Minneapolis
 Swenson, Gustaf A., Minneapolis
 Tufts, Kenneth C., Long Prairie

IRREGULARS—21

Arch. Allum, Ralph D., Peoria, Ill.
 Arch. Badger, Percy A., Minneapolis
 Arch. Birkeland, Birdeen, Houston
 Arch. Blessley, Rowland C. W., Minneapolis
 Arch. Brown, Anna A., Minneapolis
 Arch. David, Harry, St. Paul
 Elect. Dietrichson, Gerhard, Minneapolis
 Arch. Erickson, Carl I., Litchfield
 Civil Goldenstar, Arthur L., Mankato
 Arch. Guernsey, Newell F., Minneapolis

*Arch. Higbee, Marie A., Minneapolis
 Elect. Hurd, Harold R., Minneapolis
 Arch. Kantor, Mrs. Helen R., Minneapolis
 Arch. Krapp, Henry P., St. Paul
 Arch. McGarvey, G. A., Minneapolis
 Arch. Moe, Peter O., Minneapolis
 Genl. Moon, Verne H., Minot, N. D.
 Fresh. Palmer, Lloyd J., St. Paul
 Genl. Putnam, George W., Minneapolis
 Elect. Waldron, Ralph E., Minneapolis
 Civil Ward, H. Lee, Minneapolis

The following Freshmen have not decided which course in the College of Engineering they will pursue—25

Anderson, Maynard A., Gaston
 Ballard, Lewis, Fairmont
 Beneke, Walter, Rochester
 Bernt, Hans, New Duluth

Brand, Roy, New Duluth
 Butchart, Dana L., Hibbing
 Colson, Lauren G., Hewitt
 Frisch, Samuel, Minneapolis

*Died, July 23, 1917

Greenlief, Harry L., Newton, Iowa
 Groth, Arthur W., Brownton
 Hagey, Glen D., Bristol, S. D.
 Haliday, William B., Minneapolis
 Harris, Nathan, Minneapolis
 Hicks, William H., Tracy
 Holm, Edwin R., North Branch
 Horn, Byron E., Minneapolis
 Johnson, Axel L., Benson

Johnson, Carl S., Chisholm
 Kiefer, Jacob F., St. Paul
 Lebeck, Carl E., Minneapolis
 McMillen, J. Stewart, St. Paul
 Nelson, Richard L., Grove City
 Parkin, O. G., Pine Island
 Peterson, Jerome D., Minneapolis
 Shurman, Gabe, Keewatin

THE COLLEGE OF AGRICULTURE

SENIORS—82

Aamodt, Arne W., St. Paul
 Aamodt, Olaf, St. Paul
 Adams, Floyd, Owatonna
 Ballinger, Earl A., Spring Valley
 Benner, Jefferson, Minneapolis
 Benton, Dwight, St. Paul
 Bowe, Charles, Waseca
 Bretzke, Robert, Blue Earth
 Brown, Frank H., Minneapolis
 Carnes, Norris, Royalton
 Cheyney, Leslie, Mantorville
 Coe, Maynard, St. Charles
 Dahlberg, Arthur, St. Paul
 Dahlberg, Oke, Kennedy
 Dale, John P., St. Paul
 Dash, Victor, Smithville
 Doherty, Francis L., Pipestone
 Edson, Allen W., Austin
 Ferguson, Glenn, St. Paul
 Fredrickson, Casper, Lamberton
 Frestedt, Walter, North Branch
 Gaumnitz, Fred, Minneapolis
 Gillig, Edward M., St. Paul
 Glotfelter, George, Waterville
 Grant, Alfred, Faribault
 Harlan, Rex, St. Paul
 Harney, Malachi L., Cloquet
 Hayward, Maurice, Pine Island
 Hening, J. Courtenay, Minneapolis
 Hibbard, Jess, St. Cloud
 Highmark, George, West Duluth
 Jesness, P. Martin, Fosston
 Johnson, Axel, Eagle Bend
 Johnson, Edwin N., Detroit
 Johnson, Harry J., Eagle Bend
 Johnson, Perry N., Thief River Falls
 Kaercher, Charles, Milbank
 Kavel, Robert, Minneapolis
 Kienholz, Ben, St. Paul
 Lang, Archie, Mapleton
 Lunde, L. Arthur, Albert Lea

McKenney, Richard E., Minneapolis
 McKnight, Gibson, St. Paul
 Meade, Fayette, Alexandria
 Miesen, Anton, St. Peter
 Miller, Lawrence B., Jackson
 Mott, Elmer L., Pine Island
 Mueller, John F., Morgan
 Munns, Cuthbert, Minneapolis
 Nelson, Carl E., Minneapolis
 Nelson, George, Minneapolis
 Nelson, Hjalmer, Eagle Bend
 Neubauer, August, Smithville
 Newhall, Allen, Minneapolis
 Odland, Theodore, Bertha, N. D.
 Ostby, Carl M., McIntosh
 Partridge, Charles, Owatonna
 Peters, William, Osseo
 Poehler, Kenneth, St. Paul
 Prichard, Everett, Minneapolis
 Rainey, Morton, St. Paul
 Rickle, Francis, Minneapolis
 Roberts, William, Cambria, Wis.
 Robinson, Sherrill, Kimball
 Saari, Matt, Ely
 Schulz, Lorenz, St. Paul
 Scott, B. Ives, Rochester
 Searles, Harold, Rochester
 Serum, Mark, Jackson
 Smith, Donald S., St. Paul
 Smith, Robert R., Norwood
 Souba, Arthur, Hopkins
 Tanner, Roscoe W., Minneapolis
 Tillotson, Lucius, Minneapolis
 Timberlake, Harold, Minneapolis
 Vandyke, Charles W., Coleraine
 Vrooman, Lewis E., Minneapolis
 Wagner, John J., Cynthia, Ind.
 White, George T., Cloquet
 Willard, Harold, Mankato
 Williams, Thomas Russell, Minneapolis
 Wise, Edward, Mankato

JUNIORS—85

Aase, Harold, Minneapolis

Aldrich, S. Allen, Minneapolis

- Anderson, Elmer, Dassel
 Arp, Raymond, Des Moines, Iowa
 Brohaugh, William E., Shelly
 Brunkow, Frank L., Delano
 Burton, Charles M., Grand Meadow
 Chase, Clarence, Minneapolis
 Christopher, Warren N., Faribault
 Coe, Everett A., St. Charles
 Collatz, Ferdinand A., Duluth
 Collette, Allen D., Pine City
 Colman, Lloyd, Grand Meadow
 Dahle, Chester, Minneapolis
 Dahms, Leo W., Morgan
 Davis, Harold G., Minneapolis
 Dickinson, Kenneth, Minneapolis
 Dunn, Benjamin, Frederic, Wis.
 Farrell, Gerald, Duluth
 Flinn, Paul A., Duluth
 Frolik, Frank, New Prague
 Gallogly, Thomas, Graceville
 Gamble, Walter, Minneapolis
 Gary, Robert, Minneapolis
 Gates, Leon F., Rochester
 Girrback, George, Minneapolis
 Gonska, Albert, Duluth
 Griffin, Harry C., Argyle
 Gullickson, Theodore, St. Paul
 Hammargren, F. August, Harris
 Hanson, Harold, Owatonna
 Hartle, Henry, Owatonna
 Haselrud, Edwin, Peterson
 Haugsten, George, Two Harbors
 Hawkinson, Arnold, Virginia
 Hill, Harry, Elk River
 Hillard, Milton, Brainerd
 Holger, Joseph, Rushford
 Hookom, Herman, Spicer
 Idtse, Fred, Ada
 Ilse, George, Brainerd
 Jacobson, Arthur, Hadley
 Johnson, Glenn, Austin
 Jones, Neil, Mazeppa
 Juvrud, Justin, Rothsay
 Kalash, Joseph H., Lakefield
 Kelehan, Louis, Granite Falls
 Kelting, Aubrey, Minneapolis
 Knoblauch, Marcellus, Excelsior
 Kozitza, Andrew, Mapleton
 Krantz, Fred A., Iona
 Larson, Chauncey, St. Paul
 Lawson, Willis, Anoka
 Lenhart, Roy F., Minneapolis
 Lippman, Joseph C., Virginia
 McCarthy, Charles E., Madelia
 McCarty, Mark, Mapleton
 Mackintosh, David, Stillwater
 Miller, Frederick, Long Prairie
 Morrow, Kenneth, Minneapolis
 Murphy, Cletus, Lakefield
 Nissen, Henrik, Minneapolis
 Nylin, Victor, Tracy
 O'Connor, Vernon, Renville
 Olson, Robert, Amboy
 Pfaender, Walter, New Ulm
 Pickle, Clifford, Madison
 Pirsch, Gregor, Caledonia
 Pond, George A., Shakopee
 Preston, Guy, Alexandria
 Sanders, George P., Palisade
 Sanders, Parker D., Redwood Falls
 Schmid, Roland C., Minneapolis
 Schofranski, William, Iona Lake
 Simpson, Walter, Fairmont
 Small, Arthur, Creston
 Swenson, G. Adolph, Enfield
 Talbot, Herbert, Minneapolis
 Thomas, John D., Minneapolis
 Tibbets, Frank, West Concord
 Torgrim, Willard, Decorah, Iowa
 Way, Mildred, Minneapolis
 Weaver, Harry B., Minneapolis
 Williams, Edward B., Omaha, Neb.
 Yarosh, Solomon, Minneapolis

SOPHOMORES—97

- Ackerson, Clifton W., Elbow Lake
 Altman, Louis, Duluth
 Anderson, Don S., Mankato
 Barbo, George W., St. Paul
 Bateman, Charles, Minneapolis
 Benjamin, George W., Hutchinson
 Birnberg, David, St. Paul
 Bolnick, Morris, Minneapolis
 Bovee, Lloyd, Turton, S. D.
 Budhe, Janardan S., Nagpur, India
 Campbell, Frank C., Park Rapids
 Carney, Oscar L., St. Paul
 Chamberlain, Floyd, Hastings
 Chapin, Barton H., Luverne
 Christensen, Jonas, Stewart
 Comstock, Alvin E., Lakefield
 Cox, Theodore, Winnetka, Ill.
 Curran, Gordon C., Le Sueur
 Dickson, Albert N., Minneapolis
 Ely, Fordyce, St. Paul
 Emme, Arthur, Glencoe
 Evans, Lloyd, Pipestone
 Fairchild, Walter C., Milbank, S. D.
 Finley, Clifford B., Owatonna
 Fobes, Franklin, Minneapolis
 Fuller, Earl L., St. Louis Park
 Haas, George Casper, St. Paul
 Hammond, Wray E., Minneapolis

Hansen, Edwin A., Albert Lea
 Hardisty, George H., Argyle
 Harrington, Halsey, Sleepy Eye
 Harrison, Edwin B., Excelsior
 Harshaw, Mac, Minneapolis
 Harvey, Alfred, St Paul
 Hass, Harry, Minneapolis
 Hasse, Royal, Aberdeen, S. D.
 Hedin, Webster, Sauk Center
 Hempstead, Dyllone, Houston
 Heppner, Dietrich, Butterfield
 Holm, Constant, Twin Valley
 Holt, Budd, Elk River
 Hougen, Oscar, Minneapolis
 Hubbard, John D., Excelsior
 Ingersoll, Donald, Minneapolis
 Jacobson, Walter L., Minneapolis
 Johnson, Carl E., Lafayette
 Jones, Earle B., Minneapolis
 Kaldahl, Henry, St. Paul
 Klefsaas, Lewis, Madison
 Koeneman, Ephraim, Cass Lake
 Krafft, Laurence, Minneapolis
 Kribs, David, Grand Rapids
 Laubach, Arthur, St. Paul
 Law, Sidney, St. Paul
 Lindholm, John, Ortonville
 McBride, Arthur, Weyburn, Sask., Canada
 McCauley, Howard, White Bear
 MacRae, George, Minneapolis
 Mauseau, Walter R., Duluth
 Melander, Leonard, Red Wing
 Melby, Walter, Ashby
 Miller, Harry, St. Paul
 Olson, John, Two Harbors
 Ostrom, Carl J., Winthrop
 Ostrom, Helmer, Winthrop
 Perl, Edwin, St. Paul
 Peterson, Rodney, St. Paul
 Phelps, Charles P., Minneapolis
 Pierce, Raymond C., Red Wing
 Richards, H. Laurence, Minneapolis
 Ross, Clarence S., Minneapolis
 Roth, Rufas, Lamberton
 Samuelson, Albert G., Hopkins
 Schmitt, Robert A., Minneapolis
 Seberger, Oswald P., St. Cloud
 Sevey, Benjamin, Minneapolis
 Shannon, Don, Bemidji
 Sharpe, Donald, Minneapolis
 Shere, Lewis, Minneapolis
 Sinclair, Alan K., Minneapolis
 Smithers, Paul L., Flathead, Mont.
 Tenuy, Richard, Minneapolis
 Thompson, Earle, Clearwater
 Thompson, James, Minneapolis
 Tripp, Frederic, Northfield
 Voss, Robert, St. James
 Waite, Warren, Minneapolis
 Wetherby, Macnider, Minneapolis
 White, Charles C., Excelsior
 Williams, Marshall B., Minneapolis
 Williams, Vernon, Mora
 Wilson, Isaac, Royalton
 Winslow, Ralph, Minneapolis
 Woodruff, Merrill, Minneapolis
 Worsham, Clinton G., St. Paul
 Youngblood, Leland, Boonville, Ind.
 Zechlin, Leonard, Minneapolis

FRESHMEN—105

Anderson, A. Clarence, Tyler
 Arens, Theodore H., Hill City
 Bargaen, Walter I., Mountain Lake
 Bender, Roger T., St. Paul
 Bierman, Harlow, Detroit
 Bille, Ralph O., St. Paul
 Bowe, Ludvick, Northfield
 Braithwaite, G. Forest, Minneapolis
 Carey, Milton S., Spring Valley
 Carney, Charles E., St. Paul
 Copenhefer, Garreltd L., Grey Eagle
 Cottingham, Ray, Motley
 Cotton, Cecil George, Chatfield
 Crosby, Lewis L., St. Paul
 Currie, Clarence, Hinckley
 Dahl, Sigwal, Virginia
 Dietrich, George C., Minneapolis
 Eddy, Eva A., Howard Lake
 Everett, Charles V., West Duluth
 Favor, Guy B., Gloucester, Mass.
 Ferguson, Walker, Mankato
 Field, Danforth W., Minneapolis
 Fischbach, John W., Mellette, S. D.
 Fischer, Robert M., Minneapolis
 Foote, Warren, Minneapolis
 Franks, C. Loren, Viceroy, Sask., Canada
 Franz, Solomon, Mountain Lake
 Fristedt, Joseph, Cokato
 Gaumnitz, Edwin W., St. Paul
 Goodrich, Harold E., Minneapolis
 Goss, William G., Minneapolis
 Grathwol, Robert L., Excelsior
 Groesbeck, Robert M., Minneapolis
 Gustafson, Arthur C., Forest Lake
 Gustafson, Barney, Wadena
 Hammond, Stewart R., St. Paul
 Harris, Roger S., Alexandria
 Hermanson, Alfred, Thief River Falls
 Hill, Leonard, Elk River
 Hillman, William R., St. Paul
 Hoag, W. Milton, Minneapolis
 Hovde, Andre G., Grantsburg, Wis.

Huntsinger, Ross, Douglas	Nissen, Nanning, Fergus Falls
Ingersoll, Richard, Minneapolis	Parker, John P., Bloomington
Jacobson, Harry C., Hadley	Pearson, Percy, Minneapolis
Jensen, Sidney, Duluth	Peel, Lester R., Dayton, Iowa
Jesness, Clarence B., Fosston	Powers, Dwight, Minneapolis
Johnson, Austin M., Little Fork	Putnam, Henry O., Battle Lake
Johnson, Edwin C., Warren	Quinn, J. Myron, St. Paul
Johnson, Guy O., Thief River Falls	Quist, Leo, Minneapolis
Johnson, Henry, Canby	Richards, Lloyd, Lime Springs, Iowa
Johnson, Norris, Crookston	Robertson, Herbert, Corsell
Johnston, Ernest R., Nashwauk	Roth, Wilbert H., Lamberton
King, George A., Minneapolis	Schindler, Rudolph, St. Paul
Kissock, Gordon, New York, N. Y.	Schwager, Eli, Utica
Knutson, Edward, Canby	Shaw, Robert, Funkley
Kosmoski, Anton A., Owatonna	Sherman, Stephen, Minneapolis
Lambert, Edmund, St. Paul	Simons, Charles, Minneapolis
Lambert, Reuel, Royalton	Skobba, Clifford, Minneapolis
Lindell, Albin, Wayzata	Stanley, William F., Minneapolis
Linnell, Harold, Minneapolis	Steidl, Raymond, Wheaton
Loomis, Myron, Winona	Stelter, Clarence, Danube
Lundahl, William, Alpha	Swenson, Sigurd, St. James
McCall, Winslow, Minneapolis	Tate, Percy C., Madelia
McClintock, Calvin, St. Paul	Thorsen, Carl, St. Paul
McMains, James, Minneapolis	Tizzard, William E., Deer River
Magladry, Bert, Birchdale	Vassar, Luke, St. Paul
Mahoney, Harold, Faribault	Wagner, George B., Minneapolis
Manuel, Hale W., St. Paul	Walker, Ralph, Minneapolis
Meade, Irving W., Alexandria	Wentworth, Floyd, Mantorville
Menzel, Walter R., Minneapolis	Wobig, Edward, Pine Island
Miller, George E., Duluth	Wyman, James H., Detroit
Miller, Wilmer E., Randolph	Xuma, Alfred, Cape Colony, Africa
Nelson, Nels L., Virginia	

UNCLASSED—13

Blakey, Bernard B., Minneapolis	Oedvin, Ragnvald, Northfield
Diekmann, William H., Spicer	Pepinsky, Abe, St. Paul
Goff, Charles, Madison, S. D.	Petrushin, Peter, Russia
Guernsey, Newell F., Minneapolis	Stetson, Donald, St. Paul
Haenert, Otto, Fergus Falls	Tibbling, Edwin, St. Paul
Hinman, Clarence, Minneapolis	Wilkins, Stanley D., Minneapolis
Obara, Keisuke, Minneapolis	

Home Economics Course

SENIORS—73

Anderson, Hildure, Belgrade	Cooper, Marie, Minneapolis
Andrews, Mrs. Walter A., Minneapolis	Crocker, Ethel, Minneapolis
Ball, Cassie, Crookston	Cummings, M. Marguerite, St. Paul
Birnberg, Isabel, St. Paul	Dahl, Florence, Minneapolis
Boss, Hazel, St. Paul	Dahl, Irene, Minneapolis
Brown, Genevieve, St. Paul	Dahlstrom, Najme, Minneapolis
Callan, Marie, Minneapolis	Dale, Ruth, Renville
Campbell, Ellen, St. Cloud	Drew, Margaret S., St. Paul
Chatfield, Charlotte E., Minneapolis	Falkenhagen, Gertrude E., Montevideo
Clayton, Louise, Frazee	Fallgatter, Florence A., Wilmont
Coon, Ruby, Minneapolis	Forbes, Irma, St. Paul

Galchutt, Martha, Minneapolis
 Gustafson, Albertha, Minneapolis
 Hatch, Louise W., Minneapolis
 Haugen, Esther, Pelican Rapids
 Hough, Priscilla, St. Paul
 Johnson, Esther, St. Louis Park
 Kay, Gertrude, Minneapolis
 Kimball, Martha, Minneapolis
 Klatt, Bertha, New Hampton
 Knowles, Katherine, St. Paul
 Leahy, Katherine, Minneapolis
 McBride, Eunice, Minneapolis
 McKeehan, Mrs. Grace, Minneapolis
 McQueen, Jessie, Mapleton
 Maland, Cora, Rushford
 Mereness, Carol, Windom
 Mills, Julia L., Minneapolis
 Monasch, Marcella, Minneapolis
 Nannestad, Cora, Lake Park
 Orth, Ruby, Morton
 Peterson, Etnel, Sacred Heart
 Peterson, Helen A., Atwater
 Piemeisel, Laura, Jordan
 Pinkerton, Laura, Glenwood
 Randall, Laura, St. Paul
 Reinhardt, Gertrude C., St. Paul
 Rockwood, Hazel, Madelia
 Roth, Florence, Minneapolis
 Ryberg, Lillian, Kenyon
 Sargent, Rhobie, Duluth
 Schmidt, Alma, New Ulm
 Schoelkopf, Hazel, St. Paul
 Scott, Ethel M., Elgin
 Smith, Eunice F., Minneapolis
 Spriestersbach, Dorothea, St. Paul
 Stacy, Charlotte, Minneapolis
 Stene, Esther, Minneapolis
 Stoddart, Marion P., White Bear Lake
 Swella, Susan, St. Paul
 Temmey, Kathryn, Onida, S. D.
 Tews, Irene, Stewartville
 Thornton, Ada E., St. Paul
 Thurston, Onah, Minneapolis
 Trump, Ruth, Robbinsdale
 Tryon, Alice R., Minneapolis
 Tryon, Elizabeth, Minneapolis
 Washburn, Muriel, Elk River
 Weigley, Mildred, Chicago, Ill.
 Whitwell, Elizabeth, St. Paul
 Williams, Mary L., Minneapolis
 Wood, Esther A., Minneapolis

JUNIORS—91

Adams, Priscilla F., Minneapolis
 Anderson, Dalphine, Hallock
 Anderson, G. Ruth, Minneapolis
 Bohmbach, Agnes, Minneapolis
 Borgmann, Mabel, Sauk Center
 Broberg, Agnes, Blue Earth
 Brohaugh, R. Luella, Shelly
 Butler, Clarice B., St. Paul
 Campbell, Helen, Galesburg, Ill.
 Campbell, Mary Kate, Minneapolis
 Carpenter, Marie, St. Peter
 Cashman, Rose, Owatonna
 Catherwood, Josephine, Austin
 Chamberlain, Gertrude, Hastings
 Chapin, Mary W., St. Paul
 Chase, Edith, Minneapolis
 Cheadle, Florence A., Duluth
 Clark, Helen F., St. Paul
 Cummins, Margaret, Mandan, N. D.
 Denniston, Maria, Minneapolis
 Dieckhoff, Bernice, Minneapolis
 Dodge, Dorothy, Farmington
 Dorweiler, Laura A., St. Peter
 Doyle, Margaret, Morton
 Dunlap, Clara, Custer, Mont.
 Dunning, Frances S., St. Paul
 Dykeman, Gail C., Stephen
 Edwards, Dora, Duluth
 Emerson, Ruth, Minneapolis
 Emmons, Mabel, St. Paul
 Evans, Augusta, St. Paul
 Filberg, Agusta, Sherburn
 Frasier, Winifred, Eagle Bend
 Galchutt, Hilda, Minneapolis
 Goetzenberger, Helen, Minneapolis
 Goodnough, Gladys, Anoka
 Grahn, Mildred, Minneapolis
 Graner, Charlotte, Kellogg
 Guy, Flora, Minneapolis
 Hanson, Harriet, Elbow Lake
 Hanson, Marie C., Minneapolis
 Hedin, Irene, Minneapolis
 Heinen, Agnes M., Hastings
 Hill, Mabel E., Minneapolis
 Hodgson, Ida L., Herman
 Horn, Minnie, Minneapolis
 Horton, Elsie M., North Branch
 Humphrey, Alice, St. Paul
 Jepson, Florence, Minneapolis
 Joach, Hettie, New Prague
 Johnson, Beatrice, Audubon
 Jones, Monica E., Minneapolis
 Kolling, Ruth D., Duluth
 Koopman, Harriet D., St. Paul
 Ladner, Clara, St. Cloud
 Larson, Alpha, Winthrop
 Lauer, Carrie L., Thomasville, Pa.
 Lee, Blanche, Sauk Center
 Lippitt, Fannie, Duluth
 Little, Nettie, Le Sueur

Lobdell, Frances R., Minneapolis
 Ludwig, Alice, Minneapolis
 McCall, Marion, Minneapolis
 McGregor, Ethel W., Minneapolis
 Madera, Erna L., Lyle
 Martin, Cora, Luverne
 Mason, Eunice, Minneapolis
 Mollison, Margaret, Faribault
 Morrison, Marie, Minneapolis
 Munroe, Cassie, Virginia
 Munson, Dorothy, St. Paul
 Nelson, Marie H., Minneapolis
 Nolan, Margaret, St. Paul
 Oberg, Grace M., Center City
 Olson, Hazel E., St. Paul
 Olson, Lillie, Ada

Parish, Corinne, St. Paul
 Penhall, Florence E., Morton
 Phelps, Gertrude, Minneapolis
 Pickering, Florence, Minneapolis
 Pierce, Harriet, St. Paul
 Pinault, Yvette, St. Joseph
 Reycraft, Vera, Minneapolis
 Sell, Jeanette, Fairfax
 Swedberg, Mabel, Luverne
 Thom, Pearl, Rushmore
 Thompson, Anna B., Minneapolis
 Thomson, Janet, St. Paul
 Warner, Aurel, St. Paul
 Williams, Carrie, Willmar
 Wingate, Dorothy, Excelsior

SOPHOMORES—76

Amidon, Edna, Wykoff
 Anderson, Jennie M., Monticello
 Anderson, Mabel A., Alexandria
 Ashenden, Alice, Minneapolis
 Ashenden, Lucy, Minneapolis
 Bales, Mrs. Lillian E., St. Paul
 Baumberger, Johanna, Traverse
 Becker, Gertrude, Adrian
 Beckwith, Helen M., Winona
 Blake, Margaret C., St. Paul
 Boss, Elna V., St. Paul
 Boyd, Jean, St. Paul
 Boyle, Marguerite, Adrian
 Chidester, Dorothy, Merriam Park
 Close, Miriam, Appleton
 Compton, Ruth E., Red Wing
 Dyer, Emily, Minneapolis
 Einerson, Emma, Bird Island
 Eustis, Marion, Minneapolis
 Evans, Dionessa, Tracy
 Foss, Nina, Fosston
 Franks, Estelle F., Viceroy, Sask.,
 Canada
 Fullerton, Berniece, St. Paul
 Gaumnitz, Christiaa, St. Paul
 Gilbertson, Juliette, Minneapolis
 Grimm, Sadie L., Robbinsdale
 Grove, Myrtle H., St. Paul
 Hillestad, Dikka, Fosston
 Hillestad, Dora, Fosston
 Keefe, Irene, St. Paul
 Knights, Gladys, Hopkins
 Lathrop, Helen, Hugo
 Lauritzen, Hazel J., Minneapolis
 Lauritzen, Helga, St. Paul
 Lenhart, Lily, Minneapolis
 Leonard, Marjorie, Minneapolis
 Lucius, Theresa, St. Paul
 McCarthy, Agnes, Minneapolis

McKay, Alice, Brainerd
 Mann, Marion, Brownton
 Merriam, Prudence, Minneapolis
 Mulhern, Marie, St. Paul
 Newberg, Esther, Hibbing
 Newton, Dorothy, St. Paul
 Niles, Katherine, Minneapolis
 Norseen, Martha, Wheaton
 O'Toole, Bernice, Minneapolis
 Ober, Sophia, Minneapolis
 Olds, Elizabeth, Minneapolis
 Olson, Esther, St. Paul
 Overpeck, Florence, St. Paul
 Paulson, Myrtle, Alexandria
 Poppitz, Lillian, Heron Lake
 Price, Helen, Minneapolis
 Rasmusson, Hattie, Emmons
 Robinson, Helen, Minneapolis
 Rodger, Marjorie, Minneapolis
 Severinson, Amy, Willmar
 Sewell, Fern, Minneapolis
 Sewell, Muriel, Minneapolis
 Smith, Florence, St. Paul
 Smith, Gertrude, Minneapolis
 Snyder, Helen, Minneapolis
 Spriestersbach, Elizabeth, St. Paul
 Srsen, Blanche, Blooming Prairie
 Stenseth, Lillian, St. Paul
 Stewart, Marion, Minneapolis
 Styles, Grace, Minneapolis
 Tift, Lillian, Glencoe
 Timme, Laura, St. Paul
 Todd, Harriet, Minneapolis
 Uglun, Amanda, Clarkston, Wash.
 Wallace, Luella, Faribault
 Wessel, Amy, St. Paul
 Willis, Bessie, Minneapolis
 Zeuch, Marjorie, Davenport, Iowa

FRESHMEN—69

Aanes, Ruth, M., Montevideo	Kellogg, Minerva, St. Paul
Anderson, Gladys C., Minneapolis	Knebel, Helen, St. Paul
Ashenden, Mabel, Minneapolis	Knott, Lucy, Minneapolis
Bacon, Hazel U., Fremont, Neb.	Krueger, Veronica, Westbrook
Baker, Irma, Minneapolis	Larson, Frances, Minneapolis
Barsness, Irma, Elbow Lake	Laws, Marjorie, Minneapolis
Berger, Lucille, Le Sueur	Lindquist, Leona, Fulda
Beyer, Gladys, St. Paul	Lindquist, Nanie, Belgrade
Blaurock, Martha M., Minneapolis	Mitchell, Louise, Jasper
Blomgren, Florence H., Minneapolis	Mueller, Naomi, New Ulm
Borgeson, Mildred, St. Paul	Northrup, Esther, St. Paul
Borgman, Sylvia, Sauk Center	Olney, Marion L., Minneapolis
Boyse, Helen E., Hopkins	Potter, Fern, Springfield
Chapman, Grace S., Redwood Falls	Prechel, Mabel, Waseca
Cross, Virginia, Minneapolis	Redspanning, Margaret, Nassau
Cullen, Mary T., St. Paul	Reid, Louise, Hopkins
Dahl, Nellie, Minneapolis	Rockwood, Muriel, Madelia
Dunning, Frances, St. Paul	Rodler, Anetta, Davenport, Iowa
Eckman, Edith, New London	Rollefson, Olivia, Minneapolis
Eppel, Adella I., St. Paul	Rowberg, Alvina, Hanley Falls
Fjelstad, Elsie M., Minneapolis	Schurr, Elsie, Glencoe
Flaherty, Mabel F., Maple Lake	Scovell, Frances, Middle River
Flynn, Alice A., Lakefield	Seipel, Bernetta, Minneapolis
Ford, Gladys, Minneapolis	Stechman, Jeanette, Bemidji
Garvey, Grace, Minneapolis	Stedman, Lucille, Great Falls, Mont.
Gates, Frances, Fort Dodge, Iowa	Stenseth, Myrtle, St. Paul
Ginsberg, Mae, St. Paul	Swinburne, Mildred, Minneapolis
Gouldthrite, Marion, Minneapolis	Taylor, Ruth, Cass Lake
Hawkins, Gladys C., St. Paul	Treacy, Marion, St. Paul
Healy, Elizabeth, Mapleton	Van Gieson, Isabelle, Minneapolis
Hilsdale, Margaret B., Minneapolis	Van Metre, Florence, Letcher, S. D.
Hoffman, Henrietta, St. Paul	Weiskopf, Roslyn, St. Paul
Huchthausen, Magdalene, Minneapolis	Wesner, Esther, Lakefield
Jenssen, Lela, Browns Valley	Young, Eleanor, Minneapolis
Jones, Edna, Lakefield	

UNCLASSIFIED STUDENTS—16

Brossard, Mrs. E. B., St. Paul	Maxwell, Mirdy, St. Paul
Cavert, Mrs. Mary, St. Paul	Miller, Maude J., St. Paul
Fisher, Hally, Elkhart, Ind.	Murphy, Evelyn, Minneapolis
Hintermister, Brill, Highwood	Oppegard, J., Marion, Sacred Heart
Knights, Ruth M., Minneapolis	Porter, Rebecca, Minneapolis
Lommen, Georgiana, Caledonia	Reed, Marion, St. Paul
McClellan, Mrs. Lucia, Minneapolis	Tuttle, Olive, Eastport, N. Y.
Mathieson, Doris, Little Falls	Willard, Mrs. W. A., Minneapolis

COLLEGE OF FORESTRY

SENIORS—3

Burnes, John D., Hopkins	Forsberg, Carl F., Minneapolis
	Tuttle, Lauren, Minneapolis

JUNIORS—10

Anderson, Parker O., Hallock	Backus, Romaine, St. Paul
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Brayton, Shirley C., Manchester, Iowa	Hauser, George W., Minneapolis
Danson, Robert O., Algona, Iowa	Pendergast, Earl, International Falls
de Flon, Leland, Mauston, Wis.	Robertson, Sam W., Minneapolis
Hanson, Harlan C., Minneapolis	Swanson, Herbert, Paxton, Ill.

SOPHOMORES—11

Cone, Theodore, Minneapolis	Korista, Drohmir, Hopkins
de Booy, Henri T., Elk River	Naegeli, Fred A., St. Cloud
Fudden, C. M., Charles City, Iowa	Palmer, Paul R., St. Paul
Grabow, Rudolph, Minneapolis	Schmid, Walter W., Minneapolis
Haertel, Walter G., Minneapolis	Wackerman, Albert E., Minneapolis
Isaac, Leo A., Fond du Lac, Wis.	

FRESHMEN—15

Brown, Thomas W., Cedar Falls, Iowa	Morton, Jay C., Dayton, Iowa
Currie, John M., Hinckley	Nelson, Ralph M., Climax
Dollenmayer, Stacy, Minneapolis	Person, Hubert L., Minneapolis
Erickson, Leyden N., Minneapolis	Phillips, Reuben B., Northfield
Grapp, Lloyd O., Minneapolis	Place, Edward G., Minneapolis
Klein, Walter, Eitzen	Staples, Stanley F., Minneapolis
Lindahl, Algot W., St. Paul	Weis, Warren S., Minneapolis
Lord, C., Milton, Minneapolis	

THE LAW SCHOOL

Regular Law

THIRD YEAR—40

Acton, Harry J., Madison	Lundquist, Harold L., Minneapolis
Alley, Raymond C., Buffalo	McMillan, Arthur W., Duluth
Anderson, C. Gustaf, Winthrop	B.A., Carleton, 1914
Baston, Albert P., St. Louis Park	Michael, Frank F., Jordan
Chapman, Edwin H., Minneapolis	Miller, Arthur B., Heron Lake
Cohen, Edward, Minneapolis	Moorhead, William C., Minneapolis
Cohen, Joseph, Minneapolis	O'Hearn, Thomas L., Minneapolis
Costello, Harold C., Minneapolis	B.A., Minnesota, 1916
Dahlberg, Andrew H., Hopkins	Pegelow, Charles L., Two Harbors
Dale, Charles M., Minneapolis	Peterson, Jay B., Minneapolis
B.A., Minnesota, 1915	B.A., Minnesota, 1915
Erlandson, Edwin G., Detroit	Peterson, Oscar, Granite Falls
Frenzel, Paul W., St. Paul	B.A., Minnesota, 1916
Gausewitz, Alfred L., St. Paul	Pryor, Leland M., Hinckley
B.A., Minnesota, 1915	B.A., Minnesota, 1916
Godfrey, Otis H., St. Paul	Robertson, Alfred J., St. Paul
B.A., Carleton, 1915	B.A., Carleton, 1916
Grogan, Bernard D., Mankato	Shelly, Walter D., Minneapolis
Hauge, Norman J., Minneapolis	Stadsvold, Francis H., Fosston
B.A., Minnesota, 1915	Sullivan, Joseph D., Madison Lake
Hicks, George M., Thief River Falls	B.A., Minnesota, 1914
B.A., Minnesota, 1914	Thomson, Metellus, Jr., Minneapolis
Johnson, William C., Hallock	Townley, John L., Jr., Fergus Falls
Kramer, Arnold O., Preston	Wilson, Leonard A., Lake Park
B.A., Minnesota, 1906	Young, Donald A., Minneapolis
London, David, Minneapolis	Zumwinkle, Lyle E., Morton
Lowell, Clarence T., St. Paul	
B.A., Minnesota, 1916	

SECOND YEAR—52

- Amundson, Bertram L., St. Peter
 Anderberg, K. R. Clarence, Minneapolis
 B.A., Minnesota, 1916
 Anderson, Wingate M., Minneapolis
 B.A., Minnesota, 1916
 Babcock, Dana B., Sisseton, S. D.
 *Ballentine, James J., Minneapolis
 Bolsta, Charles H., Ortonville
 Brunsdale, K. Edward, Portland, N. D.
 Burns, Wendell T., Duluth
 B.A., Minnesota, 1916
 Colle, Alfred, Minneapolis
 Countryman, Marcellus L., Jr., St. Paul
 B.A., Minnesota, 1916
 Dalton, John E., St. Paul
 B.A., Minnesota, 1916
 Davis, Charles H., Minneapolis
 Divet, Donovan R., Fargo, N. D.
 Doerr, Willard A., Two Harbors
 Dougherty, J. Emmett, Minneapolis
 *Dykman, Howard, Spokane, Wash.
 Farley, John H., Minneapolis
 Frisch, Irving M., Minneapolis
 Fullerton, David H., Brainerd
 Greig, John E., Estherville, Iowa
 Grottum, Bjorne E., Windom
 Hale, Quincy H., Spring Valley
 B.A., Minnesota, 1915
 Harris, G. Erskine, St. Paul
 Head, Neil C., Minneapolis
 Hohmann, Susan C., St. Paul
 Ph.B., Hamline, 1899
 Hustad, Arthur R., Benson
 B.A., Minnesota, 1916
- Johnston, Harold W., Nashauk
 Laferriere, Francis X., Minneapolis
 Lowe, Joseph D., River Falls, Wis.
 *Lundeen, David, Minneapolis
 Mayer, Frank A. R., East Grand Forks
 Morse, Leslie H., Mankato
 B.A., Carleton, 1913
 Nelson, Roy B., Goodhue
 Olien, Charles N., Clarkfield
 Quimby, Elbert W., Ashton, S. D.
 B.A., South Dakota, 1915
 Regan, John M., Minneapolis
 Richter, Charles H., Foxhome
 Riley, Kenneth V., Minneapolis
 B.A., Minnesota, 1916
 Rosenquist, Russell C., St. Paul
 Rustan, Martin B., Underwood
 B.A., Fargo, 1913
 Sachs, Louis, Minneapolis
 Scriven, John L., Dixon, Ill.
 Shepley, Lewis C., Farmington
 Skanse, Peter E., Minneapolis
 Stradtman, William, Glencoe
 Thompson, Sivert W., Devils Lake,
 N. D.
 B.A., St. Olaf, 1914
 Thonn, Paul G., Moorhead
 Thrush, Waldo B., Spencer, Iowa
 Wanberg, Charles O., Galva, Iowa
 Weikert, Claire I., St. Paul
 Williams, Dwight, Minneapolis
 B.A., Minnesota 1916
 *Williams, George E., Minneapolis

FIRST YEAR—68

- *Aichele, Emil L., St. Paul
 Bain, James D., Mankato
 B.S., Carleton, 1916
 Bikson, Harry J., Hopkins
 Bjorgo, Victor B., Red Wing
 Boutelle, Frederick W., Minneapolis
 *Brandon, Martin O., Kensington
 Butchart, Ellis J., Duluth
 Carroll, Gerald T., Minneapolis
 Cincera, Edward J., St. Paul
 Covell, Karl H., Atwater
 Dahle, Clarence A., Minneapolis
 B.A., Wisconsin, 1915
 *De Moully, Leo, Lake Crystal
 Dirksen, Everett M., Pekin, Ill.
- Donley, Walter W., Jr., Minneapolis
 Dow, Neal E., Worthington
 Drews, Herbert H., Ashley, N. D.
 Duffy, Ray V., Minneapolis
 Eclow, Hjalmar, Minneapolis
 Egan, Raymond C., Minneapolis
 *Evenson, Thorolf G., Great Falls,
 Mont.
 *Fallgatter, Russel S., Willmont
 *Ferch, Aaron J., Correll
 Gillen, Charles W., Stillwater
 Gloege, Arthur J., Bellingham
 *Goldberg, Louis W., Minneapolis
 Graven, Henry N., Minneapolis
 Grover, Stephen F., Jr., Grantsburg, Wis.

*Indicates Seniors in the College of Science, Literature, and the Arts taking work in the Law School.

- | | |
|--|---|
| Hall, Howard L., Minneapolis
B.A., Minnesota, 1915
M.A., Minnesota, 1916 | Moore Frank G., Pattonhill, Mont.
Neils, Theodore F., Sauk Rapids
*Nolan, Joseph L., St. Paul |
| Hansen, Ivan O., Minneapolis
B.A., Minnesota, 1914
M.A., Minnesota, 1915 | North, Earl J., Minneapolis
Orfield, Didrick J., Minneapolis
B.A., Minnesota, 1908 |
| Hjortholm, Herman C., Clermont, Iowa
Hoitomt, Adolf, Minneapolis
Hollenbeck, George M., Minneapolis
B.A., Carroll, 1916 | Parker, Hugh G., Wadena
Perkins, Norval E., St. Paul
*Petri, Franklin, Minneapolis
Reyerson, Paul, Dawson |
| Hough, George P., Kerkhoven
Hougnon, Thomas J., Cambridge, Neb.
Huey, Harold G., Minneapolis
*Hunting, Charles E., Jr., Minneapolis | Robb, John D., Minneapolis
B.A., Yale, 1915
*Rogstad, Einar A., Detroit
Sellars, G. Burrel, Minneapolis |
| Iverson, Clarence J., Aberdeen, S. D.
Kerfoot, Paul S., St. Paul
B.S., Hamline, 1916 | Smith; Dayton, Monona, Iowa
Spriggs, Walter J., St. Paul
B.A., Minnesota, 1916 |
| Kleffman, Edgar W., Hibbing
Klossner, Winifred B. W., Winthrop
Larson, Earl E., Alexandria
*Leonard, Burritt C., Minneapolis | Stillwell, Philip J., Appleton
Taylor, Willard B., Minneapolis
B.A., Ohio Wesleyan, 1916
Thacker, Ralph W., St. Paul
B.A., Olivet, 1909 |
| *Lindeman, Arthur H., North
Redwood
Lohmann, Lewis E., Pekin, Ill.
Maynard, John H., Waubay, S. D. | Torvestad, John N., Fertile
B.S., Hamline, 1916
Wescott, Frank S. U., Mappsburg, Va.
White, Kenneth S., River Falls, Wis. |
| *Melin, Arthur H., Minneapolis
*Mergens, Harold J., Weyburn, Sask.,
Canada. | *Wiencke, Otto, Balaton |

UNCLASSED—3

- | | |
|---|---|
| Fulton, Thomas C., St. Paul
Glick, George G., St. Paul
B.A., Iowa, 1914 | Matt, C. David, Minneapolis
B.A., Pennsylvania, 1909 |
|---|---|

Special Law

THIRD YEAR—7

- | | |
|--|--|
| Booher, Leroy T., Jr., Armour, S. D.
Burhans, Ira H., Minneapolis
Davis, Harry W., Duluth
Drake, Gustaf E., Minneapolis | Ottesen, Theodore H., Nevis
Rankin, Robert L., Cambridge, Neb.
Scott, Paul R., Alton, Ill.
L.L.B., Washington and Lee, 1916 |
|--|--|

SECOND YEAR—8

- | | |
|---|--|
| Holdhusen, Frank H., Minneapolis
Jennings, G. Elmer, Minneapolis
Lande, Clarence O., McGrath
Long, Michael A., Minneapolis | Lund, Eli R., Windom
Miller, Herbert J., Heron Lake
Shannon, Clarence A., Minneapolis
Winthrop, William L., Minneapolis |
|---|--|

FIRST YEAR—44

- | | |
|-----------------------------|-------------------------------|
| Allen, William W., Fairmont | Anderson, Godfrey W., Proctor |
|-----------------------------|-------------------------------|

*Indicates Seniors in the College of Science, Literature, and the Arts taking work in the Law School.

- Bacon, Lucas M., St. Paul
 Belstrom, Axel W., Minneapolis
 Buckley, Edward T., Farmington
 Bugher, Charles A., Ladysmith, Wis.
 Carman, Donald, Detroit
 Cox, Guy M., Walnut Hill, Ill.
 Cullum, Richard A., Duluth
 Dow, Lawrence H., Duluth
 Eggert, Albert W., Minneapolis
 Ekman, Carl E., Grand Rapids
 Fagan, Edward J., Minneapolis
 Flaten, Milo G., Minneapolis
 Garrett, Albert W., Osseo
 Graven, J. Howard, St. James
 Halverson, Stanford C., Minneapolis
 Halverson, Walter S., Minneapolis
 Kahner, Martin L., Minneapolis
 Kempton, H. Seward, Duluth
 Knoche, Enno A., St. Paul
 Knott, Spencer H., Minneapolis
 Kulberg, Samuel, Minneapolis
- Lande, J. Herman, McGrath
 Leisen, Raymond J., Minneapolis
 Matson, Sidney S., Sherburn
 Meyler, George A., Geneva, Ohio
 Montgomery, Herbert L., Minneapolis
 Oehler, Karl F., Devils Lake, N. D.
 Pearllove, Edward J., Minneapolis
 Pool, Harry K., Minneapolis
 Robertson, Ellsworth G., Argyle
 Scheid, Arthur F., Mankato
 Schumacher, Clair F., St. Peter
 Severson, Edwin S., St. Paul
 Stadler, Roy E., Minneapolis
 Steele, Julian H., St. Paul
 Sullivan, Joseph E., Minneapolis
 Swanson, George, Mankato
 Timerman, Gates A., St. Paul
 Towey, Robert E., Minneapolis
 Weedell, H. Austin, Minneapolis
 White, Valmah S., Minneapolis
 Wolf, Earl D., Morristown

THE MEDICAL SCHOOL

SIXTH YEAR—45

- Agnew, Allen T., Vincennes, Ind.
 Anderson, Allen R., Payette, Idaho
 B.S., Minnesota, 1915
 Anderson, Frank J., Ellsworth, Wis.
 B.S., Minnesota, 1915
 Andreassen, Einar C., Minneapolis
 B.S., Minnesota, 1915
 Christie, Robert L., Long Prairie
 B.S., Minnesota, 1916
 Constans, George M., Blue Earth
 B.A., Carleton, 1912
 B.S., Minnesota, 1915
 Freed, Oscar J. R., Watertown
 B.S., Minnesota, 1915
 Geer, Everett K., St. Paul
 B.S., Minnesota, 1915
 Goss, Harold Leroy, Minneapolis
 Groebner, Otto A., New Ulm
 B.S., Minnesota, 1916
 Halland, John G., Fargo, N. D.
 B.S., N.D. Agr. College, 1912
 Halley, William Wallace, East Grand
 Forks
 B.S., Macalester, 1913
 Holmes, Charles King, St. Paul
 Ph.B., Hamline, 1913
 Hovde, Rolf, Duluth
 B.S., Minnesota, 1916
- Hutchinson, Charles J., Minneapolis
 B.A., Minnesota, 1913
 Jepson, Roscoe, Sioux City, Iowa
 B.S., Dartmouth, 1912
 Kittelson, John A., Minneapolis
 B.S., Beloit, 1913
 Klima, William W., Silver Lake
 B.S., Minnesota, 1915
 Knudtson, Herbert M., Hunter, N. D.
 Larson, Albert M., Jasper
 B.A., South Dakota, 1915
 Larson, G. Arthur, Taunton
 B.S., Minnesota, 1915
 Lepak, John A., Duluth
 B.S., Minnesota, 1916
 Lynch, George V., Winona
 Martin, George H., Renwick, Iowa
 M.D., Iowa, 1907
 Merkert, George L., Minneapolis
 B.S., Minnesota, 1915
 Molander, Herbert A., St. Paul
 B.S., Minnesota, 1915
 Moriarty, Cecile R., St. Paul
 B.S., Minnesota, 1915
 Nordin, Gustaf T., Minneapolis
 B.S., Minnesota, 1915
 Nutting, Clara A., St. Paul
 B.S., Minnesota, 1915

- Pearson, Fritz R., Hudson, Wis.
B.S., Minnesota, 1916
- Proshek, Charles E., New Prague
- Reinhardt, William R. L., Spokane,
Wash.
B.S., Minnesota, 1916
- Riegel, J. Arthur, Minneapolis
B.A., Carleton, 1913
B.S., Minnesota, 1916
- Rosenthal, Boleslaus A., St. Paul
B.S., Minnesota, 1915
- Sargeant, Howard L., Northfield
B.S., Carleton, 1911
- Schutt, Ray L., Minneapolis
- Shapiro, Morse J., Minneapolis
B.S., Minnesota, 1915
- Smersh, Jerome F., Owatonna
B.S., Minnesota, 1916
- Smith, Millard F. J., Little Rock, Iowa
B.S., Minnesota, 1915
- Solhaug, Samuel B., Starbuck
B.A., Carleton, 1913
B.S., Minnesota, 1915
- Stuhr, John W., Euclid
B.S., Minnesota, 1915
- Sund, Adolph G., Minneapolis
B.S., Minnesota, 1915
- Swanson, Edwin O., Brainerd
- Tanner, Chester O., Minneapolis
B.S., Minnesota, 1915
- Vaughn, Florian, Shelbina, Mo.
B.A., Missouri, 1915

FIFTH YEAR—67

- Anderson, Edward D., Minneapolis
B.A., Minnesota, 1913
- Anderson, Hilding C., Mt. Vernon,
Wash.
B.S., Minnesota, 1915
- Borgeson, Egbert J., St. Paul
- Bregel, Fred L., Fairfax
- Broker, Walter S., Minneapolis
- Buscher, Herbert, St. Paul
- Caldwell, Kenneth S., St. Paul
B.A., Minnesota, 1915
- Calkins, Leroy A., Wadena
B.S., Cornell, 1913
- Colby, Woodward L., Hector
- Cole, Wyman C. C., Minneapolis
B.S., Minnesota, 1916
- DiehI, Harold S., Clear Spring, Md.
B.A., Pennsylvania College, 1912
- Ekelund, Clifford T., St. Paul
- Fineman, Solomon, Minneapolis
B.S., Minnesota, 1916
- Fjellman, Ruben C., Minneapolis
- Fritsche, Albert, Minneapolis
- Gamble, Joseph W., Minneapolis
B.S., Minnesota, 1916
- Gausemel, Selmer D., Kenyon
- Giere, Silas W., Sacred Heart
- Hall, William W., Minneapolis
B.S., Minnesota, 1916
- Hartley, Everett C., Carver
B.A., Beloit, 1914
- Hathaway, George J., Minneapolis
- Hathaway, Stillman J., Northfield
B.S., Carleton, 1914
- Hawkins, Arthur D., St. Paul
B.S., Minnesota, 1916
- Herrmann, Edgar T., St. Paul
B.S., Minnesota, 1916
- Holm, Hillard H., Carver
- Kadesky, David, Aberdeen, S. D.
- Kennedy, Harry T., Minneapolis
B.S., Minnesota, 1916
- Kennedy, William A., Minneapolis
- Kleinschmidt, Clinton, St. Louis, Mo.
- Koiker, Herman J., Hull, Iowa
- Larson, Arnold, Mabel
B.S., Minnesota, 1916
- Lick, Charles L., St. Paul
- Little, Roy C., Madison
B.S., Minnesota, 1916
- Logefeil, Rudolph C., Minneapolis
B.S., Minnesota, 1916
- Lowe, Thomas A., Hadley
- Lund, Theodore C., Hutchinson
- Lundquist, Elmer F., Minneapolis
B.S., Minnesota, 1916
- McCarthy, Donald, Minneapolis
B.S., Minnesota, 1916
- McGeary, George E., St. Paul
- McKinley, J. Charnley, Minneapolis
B.S., Minnesota, 1915
- McLean, Hugh A., Hannah, N. D.
B.A., North Dakota
- Morrissey, Frank B., Minneapolis
- Mulder, John L., Rock Valley, Iowa
- Murphy, Leo T., Minneapolis
- Nathanson, Morris, Minneapolis
B.S., Minnesota, 1916
- Norris, Edgar H., Minneapolis
B.S., Minnesota, 1915
- Pederson, Nellie C. E., Anoka
- Perkins, John W., Lewiston, Idaho
B.S., Minnesota, 1916
- Peyton, William T., Dumont
B.S., Minnesota, 1916
- Plankers, Arthur G., St. Paul
- Radusch, Frieda J., Minneapolis
B.A., Macalester, 1914

- Roholt, Christian L., Minneapolis
 Runnerstrom, George E., Waseca
 Rutledge, Lloyd H., Minneapolis
 B.A., Missouri, 1915
 *Salmon, Lorne H., St. Paul
 Sawatzky, William A. C., Shakepee
 B.A., Minnesota, 1913
 Scholtes, Harry J., Wabasha
 Schwartz, Virgil J., Minneapolis
 B.S., Minnesota, 1916
 Slater, Edward P., Anoka
 B.S., Minnesota, 1916
- Snell, Albert M., Lake Park
 B.S., Minnesota, 1916
 Sturre, Julius R., Parshall, N. D.
 Swendsen, Carl G., Minneapolis
 B.S., Minnesota, 1916
 Sybilrud, Hjalmar W., New Richland
 Timm, John A., Utica
 B.S., Minnesota, 1916
 Wallinga, John H., Hull, Iowa
 B.S., Minnesota, 1916
 Weisman, Samuel A., Minneapolis
 Ylvisaker, Laurits, St. Paul
 B.A., Norwegian Luther College

FOURTH YEAR—79

- Adams, Julius, St. Cloud
 Alexander, Ernest R., St. Paul
 Anderson, David D., Minneapolis
 Arvidson, Carl G., Minneapolis
 Behmler, Frederick W., Jordan
 Bergheim, Martin C., Madison, S. D.
 Blakey, Adam Roy, Estherville, Iowa
 B.A., Minnesota, 1909
 Branton, Alloys F., Minneapolis
 Brown, R. J., Carroll, Minneapolis
 B.A., Minnesota, 1916
 Carey, James Bain, Minneapolis
 Christensen, Emun P., Minneapolis
 Colberg, Arthur J., St. Peter
 Comstock, Frederick T., South Glens
 Falls, N.Y.
 B.A., Cornell, 1915
 Countryman, Roger S., St. Paul
 Crandall, Will G., Lakota, N. L.
 B.S., Fargo College, 1914
 Crook, Rudolf L., St. Paul
 Dahlby, Albert J., St. Paul
 Daniel, Donald H., Minneapolis
 Davis, Irl R., Henderson
 De Jong, Georgia, Maurice, Iowa
 Downing, Wendell L., Moulton, Iowa
 B.A., Minnesota, 1916
 Dubbe, Frederick H., Jordan
 Ehrenberg, Claude J., Minneapolis
 Ericson, Swan, Minneapolis
 Farnham, Russell M., Minneapolis
 B.A., Carleton, 1915
 Fasbender, Herman A., Hastings
 Feaman, Albert C., Sparta, Ill.
 Flagstad, Albert E., Minneapolis
 Fredrickson, Rickard A., Edinburg, N. D.
 French, Henry S., Northfield
 B.S., Carleton, 1915
 Gammell, John H., Madison
 B.S., Minnesota, 1914
 M.E., Minnesota, 1915
- Greene, Laurence W., Le Sueur
 Gruenhagen, Arnold P., St. Paul
 Haas, Aloys T., St. Paul
 Harbo, Harold E., Minneapolis
 B.A. in Educ., Minnesota, 1914
 Haynes, Manley H., Minneapolis
 Phm.B., Minnesota, 1911
 Phm.M., Minnesota, 1913
 Haynes, Stanley H., Minneapolis
 B.S. in Eng., Minnesota, 1915
 Hedenstrom, Frank G., St. Paul
 Heimark, Julius J., Clarkfield
 Herrmann, Siegfried F., Fairmont
 B.S., Hamline, 1915
 Hodapp, Robert J., Mankato
 Hymes, Charles, Minneapolis
 Johnson, Arthur C., Minneapolis
 Jones, Hugh T., Pomona, Cal.
 B.A., Pomona, 1914
 Kennedy, George L., Minneapolis
 Kinsella, Thomas J., Aberdeen, S. D.
 Lange, Alfred E., Spokane, Wash.
 B.S., Whitman, 1915
 Larson, Clarence M., Thief River Falls
 Lineer, Algot S., Minneapolis
 Lippman, Hymen S., Minneapolis
 Locken, Oscar E., Crookston
 McLachlin, Leslie C., Hunter, N. D.
 McMurray, Fred A., Seattle, Wash.
 B.A., Washington, 1915
 Mattson, Roger H., New Rockford,
 N. D.
 Miller, Harry A., Rice
 B.A., Dixon, 1909
 Morrison, Harold E., Minneapolis
 Morse, Russell W., Minneapolis
 Muller, Theodore, St. Paul
 Murphy, W. Holland, St. Paul
 Nelson, Orville N., Battle Lake
 Nerad, Anton H., Austin
 Poppen, Jacob, Sioux Center, Iowa

*Died, September, 1917

- Richardson, Harold E., Minneapolis
 Rigler, Leo G., Minneapolis
 Rumpf, William H., Jr., Faribault
 Rypins, Harold, St. Paul
 B.A., Minnesota, 1914
 St. Clair, Roy E., Lordsburg, Cal.
 B.A., Pomona, 1914
 Sahr, Walter G. C., Minneapolis
 Schulman, Leo M., Minneapolis
 Seifert, Louis J., Lambertton
 Shedlov, Abraham, Minneapolis
 Smith, Adam M., Minneapolis
 Smith Arthur F., Little Rock, Iowa
 Sneller, Charles D., Minneapolis
 Sprafka, Joseph M., Perham
 Ternstrom, Oscar H., Spokane, Wash.
 Tiber, Leon J., St. Paul
 Wyatt, Oswald S., Minneapolis
 Young, Thomas O., Le Roy
 B.A., Carleton, 1915

THIRD YEAR—74

- Badger, Lucius F., Minneapolis
 B.A., Carleton, 1916
 Benjamin, Walter G., Hutchinson
 Blaustone, Henry, Minneapolis
 Phm.B., Minnesota, 1913
 Broberg, Gail R., Blue Earth
 B.A., Minnesota, 1915
 Brosius, Ernest J., Minneapolis
 D.D.S., Minnesota, 1912
 Cantwell, William F., White Bear
 B.S. in Chem., Minnesota, 1911
 Christianson, Harry W., Belgrade
 Phm.B., Minnesota, 1914
 Crow, Earl R., Walker
 Crowl, Verne C., Minneapolis
 Culligan, John M., St. Paul
 B.L., Notre Dame, 1915
 Daniel, Lewis M., Minneapolis
 Daniels, Harry A., Two Harbors
 Deane, Helen M., Monango, N. D.
 P.A., Carleton, 1915
 Denny, Walter W., Des Moines, Iowa
 B.A., Drake, 1914
 Dittrich, Raymond J., New Ulm
 Doyle, Lawrence O., Minneapolis
 Dunn, L. Halbert, Minneapolis
 Dvorak, Benjamin A., New Prague
 Erickson, John L., Canby
 Flocken, Charles F., Minneapolis
 V.S., Cornell
 Ford, Frances A., Minneapolis
 B.S., Minnesota, 1914
 Fowler, L. Haynes, Minneapolis
 Gunderson, Nels A., Minneapolis
 Haggart, Harry H., Fargo, N. D.
 B.A., Fargo, 1914
 Hanson, Elmer C., Fergus Falls
 Hanson, William A. H., Rochester
 Henry, Myron O., Minneapolis
 Hield, Clarence, Armada, Cal.
 B.A., Pomona, 1916
 Hoffman, Max H., St. Paul
 Hultkrans, Joel C., St. Paul
 Jensen, Harry C., Hutchinson
 Jepson, Paul N., Minneapolis
 B.A., Carleton, 1916
 Jernstrom, Roy E., Minneapolis
 Johnson, Ellsworth J., Windom
 Juergens, Herman M., Jordan
 Kennedy, Roger L. J., St. Paul
 Kerlanski, Samuel Z., St. Cloud
 B.A. in Educ., Minnesota, 1915
 King, George L., Chippewa Falls, Wis.
 Kokatnur, Gundu R., India
 Langhoff, Arthur H., Mankato
 Larson, Leroy J., Moorhead
 Litman, Morris H., Duluth
 Lundholm, Arthur M., St. Paul
 McFarlane, Lloyd E., Parkers Prairie
 Mackeen, Helen A., Minneapolis
 Martin, Arthur J., Sheboygan, Wis.
 B.A., Ripon, 1914
 Mayer, Lillian M., Great Falls, Mont.
 Miller, Loana M., Nome, Alaska
 Mills, John L., Pelican Rapids
 Miners, George A., Iron Mountain, Mich.
 B.A., Carleton, 1916
 Moersch, Herman J., St. Paul
 Nannestad, Rolf S., Albert Lea
 Nesbit, Harold T., Waterloo, Iowa
 Norrgard, Henry T., Milaca
 B.A., Gustavus Adolphus, 1915
 Palmer, C. Foster, Albert Lea
 Pederson, Arthur H., St. Paul
 Peterson, Willard C., Minneapolis
 Platou, Erling S., Valley City, N. D.
 Raverty, E. Lenord, Sleepy Eye
 Rosenholtz, Burton I., St. Paul
 Salt, Clifford, Minneapolis
 B.A., Ohio, 1906
 Shimota, Lewis L., Veseli
 Soderlind, Ralph A., Minneapolis
 Steffens, Leon A., Worthington
 Stratte, Harold C., Dawson
 Strong, G. Frederic, St. Paul
 Sullivan, Raymond M., Minneapolis
 Thygeson, Ruth A., St. Paul
 B.A., Minnesota, 1916
 Wang, M. Norman, Wittenberg, Wis.
 B.A., St. Olaf, 1916
 Waugh, James R., Seattle, Wash.
 B.A., Washington, 1914
 Widen, Wilford F., Minneapolis
 Wiggins, Porter P., Minneapolis
 Williams, Vernon M., Mora
 Zanger, Henry G., Minneapolis

SECOND AND FIRST YEAR

Second and first-year students are listed in the Sophomore and Freshman classes in the College of Science, Literature, and the Arts.

SPECIAL STUDENTS—15

- | | |
|---|--|
| Albritton, Errett C., Mayfield, Ky.
B.A., Missouri, 1916 | Martin, William S., Memphis, Tenn. |
| Baker, Alfred T., Minneapolis | Mohn, Sigvard M., Northfield |
| Bryant, Oliver R., Minneapolis
M.D., Minnesota, 1905 | Myers, Jay A., Minneapolis
B.S., Ohio, 1912 |
| Burton, Samuel C., Minneapolis
M.A., S. W. Polytechnic, Chelsea,
London, 1905 | M.S., Ohio, 1913
Ph.D., Cornell, 1914 |
| Foster, William K., Minneapolis
L.L.B., Minnesota, 1908 | Roberts, Lyle J., Omaha, Neb.
B.A., Minnesota, 1913 |
| Guba, Upendranarayan, India | Shafer, Lawrence A., Athens, Ohio |
| Healy, Barbara, Minneapolis
B.A., Minnesota, 1915 | Thompson, H. F., Forest City, Iowa. |
| Kittelson, Olaf, Grand Forks, N. D.
B.S., Minnesota, 1910 | Vik, A. Elliott, St. Paul |
| M.D., Minnesota, 1912 | Zierold, Arthur A., Minneapolis
D.D.S., Minnesota, 1907 |

THE SCHOOL FOR NURSES

THIRD YEAR—20

- | | |
|-----------------------------------|-----------------------------------|
| Berg, Esther L., Duluth | Jorstad, Esther O., Kenyon |
| Bergquist, Olive E., Minneapolis | Knutson, Mabel A., Fertile |
| Blum, Enna, Chippewa Falls, Wis. | Lyon, Margaret E., Minneapolis |
| Chaffee, Bessie C., Detroit | Price, Katherine A., Minneapolis |
| Covert, Emily C., Billings, Mont. | Redpath, Mary G., La Crosse, Wis. |
| Dunn, Margaret, Minneapolis | Runnerstrom, Elva, Waseca |
| Harbo, E. Mathilda, Minneapolis | Smitka, Ella M., Minneapolis |
| Hasle, Eva, Park River, N. D. | Vollbrecht, Agnes E., Hanover |
| Hayashi, Fuku, Kyoto, Japan | Vos, Katherine, Minneapolis |
| Joach, Celia E., New Prague | Watland, Anne M., Jackson |

SECOND YEAR—17

- | | |
|-------------------------------------|-------------------------------------|
| Adams, Marjorie, Fergus Falls | Johnson, Inez H., Mayville, N. D. |
| Andreasen, Esther M., Ashland, Wis. | Kurtzman, Mrs. Dorothy, Minneapolis |
| Baker, Helen M., Nevada, Iowa | Larsen, Effie A., Minneapolis |
| Bjeldanes, Ragnhild, Madison | Maguire, Inalane M., Excelsior |
| Corliss, Ione E., St. Paul | Ostergren, Alice E., St. Paul |
| Flinn, Irma, Minneapolis | Rood, Augusta, Minneapolis |
| Fryckman, Hazel P., Minneapolis | Schey, Jennie, Sedan |
| Garry, Lucille M., Minneapolis | Semling, Mabel, Ada |
| Hilmen, Amanda M., Crookston | |

PRELIMINARY COURSE—29

- | | |
|-------------------------------|--------------------------------|
| Anderson, Frances A., Buffalo | Dwinnell, Daisy G., Hutchinson |
| Bowser, Martha E., St. Paul | Hanson, Olga, Glen Flora, Wis. |
| Burmeister, Milre J., Mankato | Haupt, Alma C., St. Paul |
| Curry, Vernie I., Minneapolis | Hilbert, Hortense A., Albany |

Hoglund, Laura M., Willmar	Ouren, Selma, Hanska
Joach, Hetty I., New Prague	Peterson, Dora J., Frost
Johnson, Esther V., New Richland	Peterson, Laura, Hunter, N. D.
Johnson, Mabel E., Waseca	Reiter, Lila B., Rochester
Larson, Anna, St. Paul	Romell, Ruth, St. Paul
Lough, Alice M., Jordan	Saeter, Martha E., Fosston
Lund, Nora, Glenwood	Schwerin, Eleanor L., Minneapolis
McIver, Pearl, Lowry	Shamla, Aurelia M., Glencoe
Magnus, Edna M., Glen Flora, Wis.	Smitka, Helen, Minneapolis
Noreen, Naomi C., Minneapolis	Warner, Florence L., Minneapolis
Olson, Luella H., Mankato	

ACCREDITED NURSES—2

Borge, Martha, Hudson, Wis.	Brinks, Henrike, Princeton
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THE COLLEGE OF DENTISTRY

SENIORS—99

Abell, Walter J., St. Cloud	Herrmann, Max R., Fergus Falls
Andersen, Leroy C., South Stillwater	Hillmann, H. Chester, Minneapolis
Bergersen, Louis B., St. Paul	Hoglund, Herbert A., Willmar
Bergh, Ingvald G., Madison	Holliday, Houghton, Red Wing
Birnberg, Jacob V., St. Paul	Iverson, Walter G., Minneapolis
Bodien, August T., Stacy	Jernall, Roy M., Minneapolis
Borovsky, Abe, Minneapolis	Johnson, Roy L., Willmar
Brink, Frank T., Minneapolis	Just, Dagny I., Minneapolis
Bruss, Erwin F., Mankato	Kubesh, Edward J., Olivia
Buchler, John L., Minneapolis	Leighton, Emmet G., Minneapolis
Chisholm, David R., Chippewa Falls, Wis.	Le May, Ray B., Homer
Cohler, Michael J., St. Paul	Lillehei, Clarence I., Luverne
Colburn, Daniel N., Minneapolis	Lindeliien, Clifford O., Battle Lake
Connell, John E., Superior, Wis.	Linguist, Robert W., Taylors Falls
Cook, George W., Faribault	Lorhammer, Gustav, Norway
Dampier, Donald G., St. Paul	McKenzie, Morell D., St. Paul
Danz, Beatrice, Minneapolis	Meintsma, Richard, Maple Lake
Diamond, Hymen A., Minneapolis	Miller, Melvin A., Wykoff
Durfee, Lawrence M., Minneapolis	Neiman, Robert, Minneapolis
Farrell, Stanley M., Ellensburg, Wash.	Nelson, Clarence A., New Richmond, Wis.
Fee, Graham B., Superior, Wis.	Nylander, Victor T., Minneapolis
Feeney, Howard S., Glenwood	Olson, Alfred, Minneapolis
Fossum, Edgar A., Dassel	Paske, Charles H., Worthington
Freier, Ephraim F., Minneapolis	Peterson, Chester R., Litchfield
Gabrielson, Leonard C., St. Paul	Peterson, Walter F., Rushford
Gardner, Herbert E., Minneapolis	Pfeiffer, Roy H., Winona
Geddes, Donald D., Anoka	Pierson, Linus L., Watertown
Gerde, Magnus A., Minneapolis	Plonty, Earl W., Morristown
Girvin, Cecil W., Mankato	Radke, L. Maurice, Minneapolis
Hansen, Arthur P., St. Paul	Radke, W. Lynn, New Rockford, N. D.
Hansen, Elmer L., Harmony	Reinking, Henry N., Hamel
Harper, Fred W., Enderlin, N. D.	Reynolds, William D., Jr., Minneapolis
Hartig, Rolf P. J., Minneapolis	Ribbel, George H., Brainerd
Hartwig, Joseph I., Minneapolis	Ringstrom, George M., Minneapolis
Haven, Walter K., Minneapolis	Robinson, John F., Bertha
Healy, Clifford J., Wykoff	Roelike, Stephen J., Melrose
Hendricks, Lambert M., Mayer	

Saevig, John G., Rushford
 Schuft, Adolph F., Hutchinson
 Sell, Charles A., Adrian
 Shackell, Harold, Winona
 Shanahan, Raymond F., Faribault
 Simonson, August E., Minneapolis
 Skon, Arthur E., St. Paul
 Stevens, Marion R., Minneapolis
 Swanson, Clayton A., Minneapolis
 Talle, Ingeborg M., Norway
 Thorson, M. Hauman, Minneapolis
 Tucker, Charles M., Minneapolis
 Tucker, Clarence A., Minneapolis

Watson, William E., Minneapolis
 Wedin, Arthur C., Hector
 Weibeler, Christian J., Belle Plaine
 Weisman, Harry L., Minneapolis
 Wendell, Lehman, Minneapolis
 West, Earl C., Brownton
 Whitaker, Vernon D., Litchfield
 White, Eleanora S., Minneapolis
 White, Floyd M., Minneapolis
 Wilson, Oliver P., Rushford
 Wolter, Amadeus F., Minneapolis
 Zettler, Walter W., Mankato
 Ziskin, Daniel E., Minneapolis

JUNIORS—84

Abrahams, Oscar H., Minneapolis
 Albrecht, Arnold W., Mapleton
 Anderson, C. Oscar, Minneapolis
 Anderson, Ernest J., Minneapolis
 Anderson, Gustave R., Minneapolis
 Anderson, Raymond H., Duluth
 Bang, Charles B., Ada
 Beckenstein, Isadore S., Minneapolis
 Brady, Frank P., Red Lake Falls
 Brandenburg, George A., Minneapolis
 Brooks, Fiske I., Minneapolis
 Buck, Wesley V., Des Moines, Iowa
 Carlson, Melvin H., Brainerd
 Dwire, George J., Minneapolis
 Eklund, Conrad L., Minneapolis
 Farmer, Ernest A., Minneapolis
 Faus, N. Alden, Osakis
 Finnegan, Roscoe L., Minneapolis
 Flandrick, Carl R., White Bear
 Gilbert, Lloyd I., Casselton, N. D.
 Gullings, Ingeman O., Detroit
 Hagberg, Warner V., Minneapolis
 Halvorsen, Jorgen, Norway
 Haugberg, Elmer, Minneapolis
 Hiebert, Gerhard J., Mountain Lake
 Hoitomt, Raymond M., Minneapolis
 Homme, A. H. Francke, Minneapolis
 How, Roy M., Cambridge
 Johnson, George A., Willmar
 Johnson, Harvey, Minneapolis
 Johnson, Herbert E., Waseca
 Johnson, Raymond E., St. Paul
 Kelsey, C. William, Minneapolis
 Kirkpatrick, Frederick K., Parkers
 Prairie
 Kirkpatrick, Virgil L., Blackduck
 Krishef, Jacob L., Minneapolis
 La Freniere, John G., St. Paul
 Lauer, Vernon G., Minneapolis
 Lee, Cloyde W., Northfield
 Lee, Ernest T., Glenwood
 Lucian, Arthur E., Crookston
 McGinn, James A., Brainerd

McKinny, Walter H., Appleton
 Meacham, Lloyd F., Edgerton
 Melander, Oscar A., Duluth
 Miner, Clayton L., St. Cloud
 Moos, Louis C., St. Cloud
 Nash, Earl G., Homer
 Nelleremoc, Joy O., Buffalo Lake
 Nelson, Carl W., Minneapolis
 Nelson, John W., River Falls, Wis.
 Ness, Hans B., Minneapolis
 Nishioka, Masahito, Japan
 Northfield, Ivan H., Lake City
 Obermeyer, Fred C., Minneapolis
 Olson, Raymond C., Spring Valley
 Passer, Clarence W., Waseca
 Pattridge, Walter H., Tracy
 Pearson, Edward H., Minneapolis
 Peterson, Julius A., St. Peter
 Peterson, Leonard C., Hopkins
 Priske, Leo R., Mahonkin
 Robb, George L., Jr., Minneapolis
 Salisbury, John A., Parkers Prairie
 Shaw, Will S., Tower City, N. D.
 Silsby, Jay, Minneapolis
 Silver, Victor L., Clarkfield
 Simon, Albert F., New Prague
 Snyder, Charles E., Warren
 Storberg, Victor H., Ada
 Swennes, Harold G., Clarkfield
 Swensen, Clifford R., North Branch
 Thomas, Harold E., Marshall
 Thornby, Ingram J., Dawson
 Thorson, H. Adolph, Rochester
 Tomasek, Anthony T., St. Paul
 Wachtler, Wesley R., Mankato
 Wellman, H. Walter, Monona, Iowa
 Werner, Conrad O., Lindstrom
 Williams, Sigfred G., St. Cloud
 Woodruff, Harold S., Chatfield
 Woods, Lorenz F., Belle Plaine
 Wrucke, Arthur L., Minnesota Lake
 Zimmerman, Emanuel, St. Paul

SOPHOMORES—89

Anderson, Albert F., St. Paul	McGill Elmer C., Minneapolis
Anderson, Elmer O., Dassel	Mara, Samuel G., Delano
Anderson, Harry, St. Cloud	Medalie, William L., Duluth
Anderson, Lloyd C., Flaxville, Mont.	Meisser, John G., Arcadia, Wis.
Aronson, Arthur V., St. Cloud	Melby, Almer J., Minneapolis
Babcock, Willard L., Elk River	Miszewski, Aurelius H., Minneapolis
Bierman, Claude W., Aberdeen, S. D.	Mohn, Elmer J., Hayfield
Brandt, Henry R., Fergus Falls	Morcom, Harold E., Soudan
Britzius, Kenneth E., Minneapolis	Mountian, Matthew D., Good Thunder
Butler, George E., St. Paul	Murphy, Sylvester L., Lake Park, Iowa
Carpenter, Earl R., Plainview	Newman, Allen T., Minneapolis
Comartin, Edmund E., Bottineau, N. D.	Olson, O. Thoralf, Mayville, N. D.
Conway, James H., St. Paul	Paine, Ralph, Wabasha
Cook, Maynard E., Farmington	Pederson, J. Philip, Underwood
Daly, Timothy L., Mapleton	Pink, David, Minneapolis
Daum, Leo A., Minneapolis	Reed, Reginald R., Duluth
Davidson, Fred V., Minneapolis	Rodman, Duane E., Akeley
Dille, Walter O., Dassel	Rogstad, Otto V., Detroit
Dobson, N. Julian, Chatfield	Rose, Oscar A., Minneapolis
Doyle, Thomas C., Minneapolis	Rostad, Herman D., Zumbrota
Egdahl, Harry I., Elk Mound, Wis.	Rowell, Will J., North Branch
Elliott, Virgil D., Cambridge	Sahr, Willard L., Minneapolis
Foster, James M., Minneapolis	Searing, Ralph T., Bald Eagle Lake
Foster, Leslie W., Minneapolis	Siwinski, Michael A., St. Cloud
Francis, Vinal B., Flandreau, S. D.	Skocdopole, Fred L., Cohasset
Fuller, Benjamin F., Redwood Falls	Smith, Leslie H., Monona, Iowa
Gletne, Jaimer S., Moorhead	Stafford, Orin K., Red Wing
Graham, Philip G., Rochester	Stenborg, William A., Sacred Heart
Gumper, Joseph, Collis	Stone, Harvey C., Edgerton
Hallum, O. Ferdinand, Whalan	Stunkard, Byron W., Minneapolis
Hansen, Dallas B., Jackson	Swenson, Roger B., Minneapolis
Hawley, Ralph K., Monticello	Thiers, Frederick C., St. Paul
Hedburg, R. Lester, Minneapolis	Thomas, A. LeRoy, Dodgeville, Wis.
Jamieson, Charles H., Stillwater	Thurston, Robert F., Albert Lea
Jerdee, Joseph C., Minneapolis	Ulvestad, Reuben A., Madelia
Johnson, August W., Cyrus	Van Slyke, Arthur C., Benson
Julien, Antone W., Minneapolis	Veblen, Ingvald S., Cooperstown, N. D.
Kline, Roman P., Minto, N. D.	Weiser, G. Conrad, Windom
Kraft, Russell M., Cannon Falls	Wild, Harry C., Winona
Krause, Louis C., Eau Claire, Wis.	Williams, Harry N., Pelican Rapids
Larson, Frans A., Warren	Williams, Ward T., St. Clair
Larson, William J., St. Paul	Witter Leon E., Park Rapids
Levy, Mandel M., Minneapolis	Wolff, H. Douglas, Kimball
Long, Glen D., Smiths Mill	Wrbitzky, Benjamin P., Silver Lake
Lynde, J. Kenneth, Parkers Prairie	

FRESHMEN—98

Abbott, Victor B., Minot, N. D.	Brzenski, Benjamin J., Minneapolis
Ahmann, Norbert T., Richmond	Bugenstein, Simon, Minneapolis
Albinson, Reuben N., Minneapolis	Bussard, Oliver, Marshall
Bergan, Eugene L., Sacred Heart	Bylund, Swan O., Mora
Blunt, James K., Bismarck, N. D.	Cohen, Michael J., St. Paul
Bradley, Herrick, Minneapolis	Cole, H. Ferdinand, Pelican Rapids
Bryant, James W., Minneapolis	Collin, Sam G., Sacred Heart

- Crolley, William P., Montrose
 Donaldson, Clifford F., Osakis
 Downing, Leonard V., St. Louis Park
 East, Charles D., Mora
 Fogarty, Edward C., Sherburn
 Fruchtman, Louis, Minneapolis
 Gjedrem, Carl L., Houston
 Glanz, Theodore C., Minneapolis
 Goldberg, Max W., Minneapolis
 Gordon, Myer G., Minneapolis
 Grumstrup, Ernest, Tyler
 Hagen, William H., Spokane, Wash.
 Hanson, Elmer P., Stewart
 Hanson, Roy V., Hutchinson
 Hass, Alfred A., Wheaton
 Hawes, Perceval H., Minneapolis
 Henley, V. James, St. Paul
 Hoel, Harold C., Iola, Wis.
 Howe, Frederick M., St. Paul
 Hurst, William W., Stillwater
 Ioset, Ray G., Wadena
 Ioset, Roy F., Wadena
 Jacobson, Ray A., Cumberland, Wis.
 James, Frederick S., Sleepy Eye
 Johnson, Alvin F., St. Paul
 Johnson, Arthur F., Monticello
 Johnson, Edward L., St. Paul
 Johnson, Myrtle K., Duluth
 Johnson, Roy M., Wyndmere, N. D.
 Jungmann, Solomon, Menno, S. D.
 Katz, Abraham, St. Paul
 Kehne, Henry A., St. Paul
 Kellett, Glenn B., St. Charles
 Kelly, McMaster P., Fort William,
 Ont., Canada.
 Kelly, Robert W., Grand Rapids, Mich.
 Knapp, Ralph A., Dubuque, Iowa
 Kracek, Frank C., Scotland, S. D.
 Lan, Benjamin, Worcester, Mass.
 Landers, Henry J., Correll
 Larson, Harry O., Fargo, N. D.
 Lawler, Miles E., Minneapolis
 Losby, Theodore L., St. Paul
 Lund, Eugene, Wabasha
 Lundquist, Elmer C., Minneapolis
 Luttio, Vaino A., Frederick, S. D.
 McCray, Lyle H., Pine Island
 McIntire, Harold E., International
 Falls
 Malloy, James P., Blooming Prairie
 Marxen, Nicholas J., Jordan
 Miller, Myron H., Minneapolis
 Mohn, Malin C., Linton, N. D.
 Moulton, Claude W., Kasota
 Müller, Ekard, Gibbon
 Nellerhoe, Delmore L., Sacred Heart
 Nelson, Axel L., Eau Claire, Wis.
 Nelson, Leonard C., Sask., Canada
 Nelson, Victor O., Minneapolis
 Norden, Lemuel A., Dassel
 Oster, LeRoy T., Minneapolis
 Patterson, Alfred G., Fargo, N. D.
 Prechel, Archie E. E., Waseca
 Quigley, Maurice W., Minneapolis
 Ramsett, Harold E., Willmar
 Redman, Donald A., Minneapolis
 Reed, Robert M., Delmont, S. D.
 Risk, Paul A., Lisbon, N. D.
 Rosenbloom, Samuel S., Ely
 Schwedes, Carl H., Wabasha
 Segall, Samuel, Minneapolis
 Smith, J. Dayton, Monona, Iowa
 Sprafka, John F., Perham
 Staples, Charles W., Minneapolis
 Stemper, Joseph N., St. Paul
 Sullivan, Eugene J., Heron Lake
 Sundby, T. Norman, Rushford
 Swanson, Clarence V., St. Paul
 Swanson, Earl C., Minneapolis
 Swanson, Harold E., Minneapolis
 Thornton, M. Hillard, Appleton
 Von Bank, William J., Jordan
 Whitney, E. La Verne, Minneapolis
 Wiberg, Paul B., Lake Crystal
 Williams, Howard E., Park Rapids
 Witzman, Melvin, Minneapolis

IRREGULAR STUDENTS—2

- Johnson, Nelson L., Renville
 D.D.S., Minnesota, 1902
 Kulander, Henry, Swea City, Iowa
 D.D.S., Keokuk, 1904

THE SCHOOL OF MINES

SENIORS—15

- Anderson, Edwin H., Oakes, N. D.
 Cassilly, Thomas E., St. Paul
 Coryell, Lewis S., Osceola, Wis.
 Dennis, Richard C., Ashland, Wis.
 Dopp, James L., Ashland, Wis.
 Elson, William H., St. Paul

Ernster, Omer F., Brainerd
 Fearing, Edward J., Little Falls
 Hubbard, William E., Duluth
 Kwong, Yih Kum, China
 Levorsen, A. Irving, Fergus Falls

Peterson, Paul A., St. Paul
 Sweetman, Edwin A., Aitkin
 Wallace, Carleton, Minneapolis
 Woodruff, John J., Minneapolis

JUNIORS—21

Ainsworth, Robert E., Minneapolis
 Allard, Raymond W., St. Paul
 Armstrong, Harold K., Minneapolis
 Bailey, A. Kittredge, Jr., Minneapolis
 Clark, Fred E., Minneapolis
 Copeland, William A., St. Paul
 Cowin, Percy G., Minneapolis
 Dane, Carleton M., St. Paul
 Dowdell, Ralph L., St. Paul
 Foley, Lyndon L., Minneapolis
 Frank, Harry, Minneapolis

Gannett, Roger W., Minneapolis
 Hsieh, Chung, China
 Ingersoll, Guy E., Hibbing
 Jerrard, Walther L., St. Cloud
 Lee, Liang, China
 McGilvra, Donald B., Minneapolis
 Moga, John A., St. Paul
 Nichols, Clifford R., Buhl
 Quinn, Howard E., Melrose
 Strand, Harry W., Marine Mills

SOPHOMORES—20

Abramson, Jake, Minneapolis
 Barr, Joseph C., Jr., Riverton
 Berg, Locksley D., Dickinson, N. D.
 Calhoun, Robert, Minneapolis
 Donaghue, Abner J., Minneapolis
 Flom, Frank, Minneapolis
 Frank, Elden J., Duluth
 Frellsen, Sidney A., Minneapolis
 Gandrud, Bennie W., Glenwood
 Goldberg, Bert, St. Paul

Goldberg, Samuel B., St. Paul
 Hosted, Joseph O., Duluth
 Kirkpatrick, Roscoe C., Champlin
 Mellem, Walter R., St. Paul
 Miao, Yun Tai, China
 Rockwell, Seass A., Fargo, N. D.
 Sponberg, Edwin C., Hibbing
 Stark, James A., Duluth
 Sullivan, Dan C., Stillwater
 Wadsworth, Lawrence H., Minneapolis

FRESHMEN—21

Andersen, A. Clarence, Tyler
 Arnold, Lewis E., Minneapolis
 Bergsten, Axel, Florence, Wis.
 Chadbourn, Charles H., Minneapolis
 Davies, Herman F., Minneapolis
 Donald, George A., Ashland, Wis.
 Johnsen, Trygve, St. Anthony Park
 Johnston, Kenneth A., St. Paul
 Kersten, Erwin H., Minneapolis
 Mark, Israel C., Minneapolis
 Mars, William P., Duluth

Munson, Arthur M., St. Paul
 Olson, Paul W., Warren
 Peterson, Clarence D. B., Minneapolis
 Powers, Sheldon M., Minneapolis
 Raiter, Clifford R., Minneapolis
 Ringwood, Thomas E., Ashland, Wis.
 Rydlun, Edwyn G., Minneapolis
 Salet, Harry N., St. Paul
 Thoeni, Victor T., Wykoff
 Wheeler, James D., Minneapolis

FIRST-YEAR STUDENTS—3

Carlson, Edwin N., Brainerd
 Plut, Frank J., Crosby
 Nelson, E. Gladstone, Kennedy

THE COLLEGE OF PHARMACY

POST-GRADUATES—2

Blosmo, Oscar J., Minneapolis
 Phm.C., Minnesota, 1917
 M.Ph., Minnesota, 1914
 M.S. in Phm., Minnesota, 1916

Rogers, Charles H., Minneapolis
 M.S. in Phm., Minnesota, 1916

SENIORS—37

Berg, Leonard A., Barron, Wis.	Oehlke, Edmund, Newport
Bleser, Karl E., Milbank, S. D.	Oleson, Sydney M., Hutchinson
Carlson, Archie H., Willmar	Olson, Chester J., Dassel
Carlson, Roy W., Willmar	Olson, Silas C., Porter
Distad, G. Raymond, Moorhead	Peterson, Arthur L. E., Dawson
Eichinger, Howard E., Canby	Peterson, Verner C. J., Minneapolis
Fournier, E. Ben., Minneapolis	Strate, Herbert A., St. Paul
Frank, Robert W., Mt. Union, Pa.	Strimling, Abraham, Minneapolis
Godlieb, David P., St. Paul	Strimling, William, Minneapolis
Haugen, Selmer, Henning	Stucky, Paul H., Waseca
Iverson, Ida, Decorah, Iowa	Sugarman, Joseph B., Minneapolis
Johnson, Harlan W., Virginia	Sundry, Evans, Kenyon
Johnson, Walter M., New Richland	Swenson, James C., Mabel
Landru, Norwood G., Hendricks	Taylor, Romayne, Minneapolis
Larson, Selma E., Wanamingo	Vaaler, Raymond A., Grand Forks, N. D.
Lee, Muynng S., Korea	Vadheim, Peter, Tyler
Mike, Charles W., Tower	Williams, Harry W., Virginia
Mulrean, Anna E., Minneapolis	Wong, Jee Foun, China
Novack, Claude A., Minneapolis	

JUNIORS—17

Adler, Mrs. Birdie H., Red Wing	Hatch, Theodore L., Minneapolis
Allen, Alvin C., Minneapolis	Helland, Albert I., Hendrum
Amberg, Raymond M., Grand Rapids	Layne, George E., Rushford
Berkuvitz, Benjamin, St. Louis Park	Lindoo, Earl B., Ladysmith, Wis.
Blanchette, Philip E., Anoka	Petersen, Elmer D., Fulda
Calliton, Ora A., St. Paul	Shea, Cecil J., Virginia
Flanders, Claire L., Ellsworth, Wis.	Skartum, Reuben W., Lake Benton
Fossen, Cora B., Starbuck	Stein, Louis, Virginia
Gardner, Frances M., Minneapolis	

SOPHOMORES—5

Aurness, Rolf C., Minneapolis	Stratte, Alf K., Dawson
Bajpai, Ram L., India	Tuttle, Francis A., Minneapolis
Sahol, Gotthard J., Fergus Falls	

FRESHMEN—43

Anderson, Harley E., Whalan	Hovland, Guy B., Dawson
Bergin, Robert W., Blackduck	Jackman, Jesse H., Jr., St. Paul
Blomquist, Bernhardt E., Forreton	Jensen, Arthur P., Rochester
Clark, W. Earl, Ladysmith, Wis.	Kinch, Harvey M., Glendive, Mont.
Cohler, Sara B., St. Paul	Kingman, Gerhart I., East Grand Forks
Constantinides, Panayiottis C., Egypt	Langeland, Bert T., Zumbrota
Costello, William J., Grand Rapids	Madsen, Leo J., Rochester
Davidson, L. Raymond, Minneapolis	Mahany, Gerald, Eau Claire, Wis.
Eddy, Gayle J., Morris	Martin, Floyd, Minneapolis
Fenley, Guy B., Laporte	Martin, Royce C., Glendive, Mont.
Gibbs, George N., Minneapolis	Mattson, Ames P., Braham
Giller, Morris, Minneapolis	Mayo, James B., McLaughlin, S. D.
Gross, Howard S., Watertown, S. D.	Nelson, Dewey, Parkers Prairie
Guilbert, Oliver W., Waseca	Netz, Charles V., Owatonna
Hawlish, Henry J., Hopkins	Newhouse, Edna V. L., Spring Grove
Holec, Rose L., New Prague	

Niles, Ernest G., St. Paul
 Quast, William J., Janesville
 Riley, Philip J., Round Lake
 Sackett, Fred J., Lanesboro
 Schultz, William H., Montevideo
 Svarry, Elby V., Princeton

Thompson, Arthur, Cyrus
 Thompson, Maurice A., Blair, Wis.
 Ulven, Clarence O., Big Lake
 Wallace, Beryl E., Duluth
 Wasielewski, Henry R., Minneapolis
 Winzenburg, Charles P., Granada

SPECIAL STUDENTS—3

Casey, Roy E., Chisholm

Gormley, George A., Minneapolis

Sharpless, Clarence F., Minneapolis

THE SCHOOL OF ANALYTICAL AND APPLIED CHEMISTRY

Third-, second- and first-year students in the Arts and Chemistry Course are listed in the junior, sophomore, and freshman classes in the College of Science, Literature and the Arts.

POST-SENIOR—1

†Bell, Alexander D., St. Paul
 B.S., Minnesota, 1916

SENIORS—19

†Burningham, Foster A., St. Paul
 *Corson, Benjamin I., Stillwater
 †Domovsky, Aaron, New York City
 *Durham, Wallace, Minneapolis
 †Eckman, Laurence R., New London
 B.A., Minnesota, 1916
 *Egge, Walter A., Minneapolis
 †Higburg, William, Minneapolis
 *Joselowitz, Goodwin, Minneapolis
 *Kesselman, Leo E., Siberia
 †Kuentzel, Ward E., Mankato

†Luft, Oscar W., St. Paul
 *Markus, Benjamin, Keewatin
 *Marr, Horace S., Minneapolis
 *Marshall, Olive W., Minneapolis
 *Owens, J. Clyde, Dodgeville, Wis.
 †Rask, Olaf S., Kalispell, Mont.
 B.A., Minnesota, 1916
 †Strong, Frank D., St. Paul
 †Washburn, Frederick M., Minneapolis
 †Widell, E. Gideon, St. Paul

JUNIORS—14

†Andrews, Lawrence J., Eveleth
 †Donauer, Max, Duluth
 *Engstrom, Leslie G., Rockwell City,
 Iowa
 †Fischer, Earl B., Minneapolis
 *Greenlaw, Charles E., Minneapolis
 †Hammer, George E., Litchfield
 †Hawkey, H. Kimball, Minneapolis

†Hogness, Thorfin, Minneapolis
 †Kessel, Herbert J., St. Paul
 †Neilsen, Christ, Mankato
 *Nelson, H. Godfrey, Pine City
 †Orelup, John W., St. Paul
 †Walewitch, Leo G., Siberia
 †Williams, Claude A., Lanesboro

SOPHOMORES—22

*Bickel, Arthur C., Mason City, Iowa
 †Boxell, Morris L., St. Paul

*Brown, Joseph R., Minneapolis
 †Corl, Cady S., Jr., Minneapolis

* Indicates students in the Analytical Course.

† Indicates students in the Applied Course.

‡ Indicates students in the Arts and Chemistry Course.

- | | |
|---------------------------------|-------------------------------------|
| †Du Bois, Clyde V., Minneapolis | *Panuska, George J., St. Paul |
| *Fosness, Leslie J., Lakefield | *Peterson, Ernest A., Minneapolis |
| *Fullen, W. J., Minneapolis | †Reu, Albrecht H., Dubuque, Iowa |
| †Hannafoe, Demming L., Virginia | †Roberts, Wesley J., Lake Crystal |
| *Heck, Frank J., St. Paul | †Ruchhofs, Clarence C., Minneapolis |
| †Johnson, Donald L., St. Paul | †Schermer, Oscar C., Crookston |
| †Koch, Arthur L., Minneapolis | *Thorson, Stuart J., Minneapolis |
| *Moe, Claude P., Minneapolis | †Westlake, G. Richard, Winnebago |
| †Nicholson, Harry G., Crookston | †Winslow, Raymond M., St. Paul |

FRESHMEN—43

- | | |
|--|---|
| †Albrecht, Herbert O., St. Paul | †Lanphear, Glenn H., Minneapolis |
| †Anderson, Minton M., Minneapolis | †McCrea, Fred H., Minneapolis |
| *Baldwin, Helen, St. Paul | †McLellan, Lee L., Minneapolis |
| †Barrett, Joseph O., Brown Valley | †MacRae, Gordon C., Minneapolis |
| †Baskin, Abe H., Minneapolis | †Malmer, Alvin J., Albert Lea |
| †Boardman, Harry M., St. Paul | *Olson, Harold C., Cokato |
| *Buresch, Edward W., Lakefield | †Osborne, J. Marshall, Minneapolis |
| †Busch, John S., Minneapolis | †Ostrom, C. Milton, Reads |
| †Cuthbert, John, Goodsprings, Nev. | *Otterstein, Merton R., Amboy |
| *Davidson, L. Raymond, Minneapolis | †Parrett, Arthur N., Minneapolis |
| †Dowd, William J., St. Paul | †Pearson, Elmer A., Ely |
| †Dwyer, Peter J., Minneapolis | †Persons, Robert W., Marshall |
| *Epstein, Hymen, Minneapolis | †Reck, R. Carlyle, Minneapolis |
| †Fieger, Ernest A., St. Paul | *Ringoen, Marion R., Ridgeway, Iowa |
| †Halverson, H. Orin, River Falls,
Wis. | †Saupe, Arthur, Red Wing |
| *Horstkotte, Arthur E., Potlatch,
Idaho | *Schochet, Abraham I., Minneapolis |
| *Inge, Frederick D., St. Paul | †Sternberg, Heime, Minneapolis |
| †Jones, Ernest J., Minneapolis | †Stillwell, Walter C., Appleton |
| †Kirby, Harold L., Havre, Mont. | †Stoppel, Arthur E., Rochester |
| †Kracek, Frank C., Scotland, S. D. | †Tobin, Robert J., Tofield, Alta,
Canada |
| †Lahr, Alfred N., St. Cloud | †Wallfred, Carl L., Minneapolis |
| | *White, Philip T., Ely |

IRREGULARS—4

- | | |
|--|-------------------------------|
| *Brooks, Leslie C., Minneapolis | *Pan, Wen-ping, China |
| †Humiston, Burr, Minneapolis
B.S., Grinnell, 1916 | *Westerberg, Carl G., Cloquet |

THE COLLEGE OF EDUCATION

SENIORS—41

- | | |
|---------------------------------------|--------------------------------|
| Aas, Sven A., Minneapolis | Bergtold, Louis V., Duluth |
| Bacher, Marjorie, St. Paul | Bjornstad, Arthur B., St. Paul |
| Barry, Catherine A., Mendota | Bryan, Nellie G., Rochester |
| Becker, Rose C., Lake Nebagamon, Wis. | Burkleo, Jane, Stillwater |

* Indicates students in the Analytical Course.

† Indicates students in the Applied Course.

Burns, James F., Sauk Rapids
 Carlson, Hanphyn T., Grove City
 Clarke, George B., Minneapolis
 Coc, Louise E., Duluth
 Cole, Julia E., Buffalo, N. Y.
 Corcoran, John J., St. Paul
 Ecton, Henry L., Minneapolis
 Finn, Beatryce A., Minneapolis
 Grawert, Arthur E., St. Paul
 Groth, Cora M., Saint Ansgar, Iowa
 Guinn, Mary M., Duluth
 Hodgdon, Almeda, Bird Island
 Horne, Fyvie R., Luverne
 Janes, Eddis E., Hayfield
 Kelley, Frances E., Minneapolis
 Liedl, Eleanor, Minneapolis
 Lipschutz, Morris K., Minneapolis

McBroom, Myrtle E., Hutchinson
 McKeehan, Mrs. L. W., Minneapolis
 Nellerroe, Otto D., Minneapolis
 Nelson, Gladys M., Minneapolis
 Nelson, Lillian E., Minneapolis
 Orth, Freda E., Lidgerwood, N. D.
 Pluto, Louis J., Long Prairie
 Raymond, Emmett A., Winona
 Sims, Helen D., Little Falls
 Smiley, Proctor K., Kellogg
 Steel, Harry J., Mankato
 Thorstad, Gladys M., Wahkon
 Wallace, Alberto A., Valley City, N. D.
 Ward, Zoc M., Glenwood
 Whaley, Frances, St. Paul
 Young, Katherine G., Minneapolis

JUNIORS—40

Aho, Leonard, Two Harbors
 Bozarth, Harriett, Cedar Falls, Iowa
 Darling, Margaret H., Minneapolis
 Deloria, Ruth E., Iron River, Mich.
 Derdowska, Harriet, Winona
 Dobie, Joseph J., Mapleton
 Ek, Frances S., St. Paul
 FitzSimmons, Mary, Minneapolis
 Franklin, Mabel L., Minneapolis
 Grasby, Alma, Houston
 Graves, Ethel G., Rice
 Haley, Hazel, Hibbing
 Hawkinson, Anna V., Harris
 Husband, Ivy C., Watertown, S. D.
 Johnson, Gladys, Buhl
 Johnson, Henry A., Willmar
 Joyce, Loraine E., St. Paul
 Joyner, Taylor M., St. Cloud
 Kellerhals, May L. E., Minneapolis
 Kleist, Esther E., St. Paul

Lysen, J. Eugene, Lowry
 McKnight, Lucile, Rochester
 Mace, Gage, Mankato
 Main, Mabel F., Harcourt, Iowa
 Meigs, Jerusha G., St. Cloud
 Moore, Helen M., Minneapolis
 Moosbrugger, Elmire, St. Paul
 Murnik, Beatrice, Eveleth
 O'Brien, Ruth, Duluth
 Ober, Marguerite F., Minneapolis
 Patton, Dorothy I., Duluth
 Reidenger, Leone, East Chain
 Rist, Lewis M. B., Algona, Iowa
 Runsvold, Matilda E., Two Harbors
 Thorstad, Francis, Wheaton
 Underwood, Ruth E., Minneapolis
 Vest, Florence, St. Paul
 Widell, Elizabeth S., St. Paul
 Will, Lucy, Minneapolis
 Wood, Archie F., Long Prairie

UNCLASSED—123

Adams, Ruth, Mt. Viere, Okla.
 Aldrich, Mrs. Bettie M., Minneapolis
 Aldrich, Malcolm, Minneapolis
 Anderson, F. Lucille, Minneapolis
 Barney, Edith M., Minneapolis
 Bennett, Muriel, Minneapolis
 Blandin, Adolph A., St. Paul
 Boquist, Harold S., Minneapolis
 Bowser, Myrtle, St. Paul
 Buechler, Elsie M., Minneapolis
 Birmingham, Percy J., Hopkins
 Burns, Mrs. Louise H., Preston
 Burns, Maria, St. Paul
 Chaline, Edith J., Minneapolis
 Chandler, Floyd A., Minneapolis
 Channon, Julia H., Rock Island, Ill.

Chapin, Alice C., Eden, Mich.
 Chapman, Madge, Minneapolis
 Christensen, May, Minneapolis
 Christie, Blanche, Alexandria
 Conary, Helen B., Minneapolis
 Connell, Mary E., Waterville
 Dahle, Astrid P., Starbuck
 Daly, Elizabeth B., St. Paul
 Deming, Norma H., Minneapolis
 Diederich, Rose C., St. Paul
 Dwyer, Elizabeth, Minneapolis
 Eayrs, Helen F., Minneapolis
 Emery, Marion G., St. Paul
 Emery, Rhoda J., Douglas
 Emmel, Dorcas P., Minneapolis
 Erb, Nellie M., Minneapolis

- Farley, Mary B., St. Paul
 Fitzgerald, Caroline A., Minneapolis
 Fitzpatrick, Lucy, Minneapolis
 Fitzpatrick, Mary, Minneapolis
 Flahavan, Frances, Minneapolis
 Ford, Antoinette E., St. Paul
 Fredrickson, Margaret F., St. Paul
 Gerry, Leila E., Minneapolis
 Ginsberg, Annie, St. Paul
 Ginsberg, Daisy, St. Paul
 Goldberg, Florence R., Minneapolis
 Grant, Mary J., St. Paul
 Hamstreet, W. Earl, Minneapolis
 Haney, Elizabeth N., Minneapolis
 Hardaker, E. J., Minneapolis
 Hart, Mabel R., Minneapolis
 Hatz, Anna B., Bangor, Wis.
 Hatz, Rose, Minneapolis
 Hawkins, Stella C., River Falls, Wis.
 Hays, Ada S., Attica, Ind.
 Hazleton, Lydia L., Minneapolis
 Hilder, Fannie E., St. Cloud
 Hill, Pauline V., St. Paul
 Horr, Edith M., Minneapolis
 Hughes, Margaret E., Houston
 Hurlburt, Frances L., Minneapolis
 Janson, Wilford S., Minneapolis
 Jonas, Meta M., La Crosse, Wis.
 Kelley, Evie F., Minneapolis
 Kerr, Adah L., Minneapolis
 King, Julia E., Minneapolis
 Langvick, Clara G., Richville
 Langvick, Emma M., Richville
 Larson, Helen I., St. Paul
 Leonard, Mary, St. Paul
 Lewis, Mabel N., St. Paul
 Lieb, Laura W., Minneapolis
 Lien, Clara G., River Falls, Wis.
 Lillegren, Damaris E., Minneapolis
 Lommen, Georgina, Caledonia
 McGinnis, Bert B., Minneapolis
 McGuire, Sarah E., Minneapolis
 McMahan, Catherine C., Faribault
 McPhee, Maurietta K., Minneapolis
 Macdonell, B. Hazel, St. Paul
 Magnusson, Jennie M., Templeton, Cal.
 Martin, Blanche, Waterloo, Iowa
 Meek, Mabel F., Waterloo, Iowa
 Miller, O. H., Minneapolis
 Mooney, Edward A., Minneapolis
 Murphy, Theresa, Anoka
 Newell, Margaret M., Morris
 O'Keefe, Timothy, Elysian
 Olsen, Carolyn, St. Paul
 Ostvik, Ole K., Northfield
 Owen, Gertrude B., Dodgeville, Wis.
 Payette, Charles T., Minneapolis
 Perkins, Alfred G., St. Paul
 Quail, Margaret, Minneapolis
 Randall, Ada M., Minneapolis
 Randall, Grace A., Owatonna
 Ray, Rosalie E., Minneapolis
 Richards, Mary B., Painesdale, Mich.
 Rohweder, Gertrude R., Winona
 Rush, Alice G., Watseha, Ill.
 Russell, Jean, Minneapolis
 Ryberg, Anna B., Kenyon
 Schanfeld, Sarah, Minneapolis
 Shaw, Gertrude J., Racine, Wis.
 Simon, Clara J., St. Paul
 Simon, Ellen M., St. Paul
 Smith, Alice M., Detroit, Mich.
 Smith, Frances M., Minneapolis
 Stevenson, Ida A., Minneapolis
 Swift, Mercedes, St. Paul
 Talbot, Georgina, St. Paul
 Thompson, Mildred, Minneapolis
 Tibbetts, L. Isabel, Minneapolis
 Tillisch, Mary A., Minneapolis
 Tisdale, Julia C., St. Paul
 Underwood, Alice, Minneapolis
 Underwood, Elizabeth, Minneapolis
 Van Tuyl, Ruth, Minneapolis
 Wasmus, Beulah J., St. Paul
 Weibert, Florence C., Minneapolis
 Wells, C. Lucille, St. Paul
 White, Carrie A., Woodstock, Vt.
 Wilson, Claire L., Minneapolis
 Wolfsberg, May E., Minneapolis
 Woodward, M. Myrtle, Minneapolis
 Young, Marie L., Minneapolis

THE UNIVERSITY SUMMER SESSION, 1916--1,068

- Aas, Sven A., Minneapolis
 Adams, Arlon T., St. Paul
 Albrecht, Gladys, Minneapolis
 Alexander, Ernest R., St. Paul
 Alexander, Wanda, Minneapolis
 Allen, Florence C., Hector
 Allen, Harriet, St. Paul
 Allen, Hazel, Bemidji
 Allum, Ralph D., Peoria, Ill.
 Alsen, Myrtle F., Minneapolis
 Alterton, Margaret, Minneapolis
 Alton, Mayce M., River Falls, Wis.
 Alverson, Miles C., Minneapolis
 Amery, Frances, St. Paul
 Ames, June, St. Paul Park
 Andersen, Anna H., Virginia
 Anderson, Arthur C., St. Paul
 Anderson, Arthur L., St. Paul
 Anderson, Bert G., Litchfield
 Anderson, Cecelia, Green Bay, Wis.

- Anderson, J. Arthur, Hinckley
 Anderson, Mabel, Minneapolis
 Anderson, Margaret, Minneapolis
 Anderson, Mary, Hutchinson
 Anderson, Ruth A., Minneapolis
 Anderson, Ruth G., Minneapolis
 Andrews, Mary E., Minneapolis
 Angst, Anna, Minneapolis
 Anthistle, Harry, St. Paul
 Anvid, Anna M., Blackduck
 Appel, Livia, St. Paul
 Arness, Ole J., Minneapolis
 Arnold, Almon A., Stillwater, Okla.
 Arnquist, H. Willet, Hudson, Wis.
 Arper, Helen C., St. Paul
 Arries, Alta M., Crookston
 Arvidson, Carl G., Minneapolis
 Ash, Ralph E., Wendell
 Athan, Mary E., Woodstock
 Atherton, Ned, Worthington
 Atwood, Perry M., Tower
 Ayt, Erna, St. Paul
 Babcock, Willoughby M., Jr., Minneapolis
 Babcock, Mrs. W. M., Minneapolis
 Baer, Bessie T., Baraboo, Wis.
 Bakalyar, George, Lakefield
 Baker, Arthur, Deer River
 Baldwin, Grace, Minneapolis
 Baldwin, Ines D. S., Willmar
 Ballard, Grace, St. Paul
 Bank, Lena, Minneapolis
 Bannach, Frances C., Stevens Point, Wis.
 Barker, Georgia M., Menomonie, Wis.
 Barker, Grace, Minneapolis
 Barker, Helen, Minneapolis
 Barnhart, Elizabeth, Minneapolis
 Barrows, Vera F., Herman
 Bartlette, Mrs. Barbara H., St. Paul
 Barton, Mrs. Flora R., Minneapolis
 Bassford, M. Hannah, St. Paul
 Bau, Chingling, China
 Bausman, Clarence C., Minneapolis
 Bausman, Julia, Fairbault
 Recking, Ella, Fairmount
 Bell, Charles E., Minneapolis
 Bell, Jane E., Minneapolis
 Bell, Stella M., Luverne
 Bemis, Lillian, St. Paul Park
 Bernhardt, Genevieve, Minneapolis
 Beyer, Annie E., Lake Benton
 Beyer, Helene M., Lake Benton
 Beyer, Stelca, Lake Benton
 Pezanson, Edith E., Minneapolis
 Bird, Mrs. Kathlyn, Mound
 Birkeland, Olav, McIntosh
 Birnberg, Isabel R., St. Paul
 Bishoff, Kittie, Ashland, Wis.
 Black, Ethel, Rushmore
 Blackstone, Jessie, Anaconda, Mont.
 Blake, Dorothy C., Minneapolis
 Blanchard, Margaret A., Farmington
 Blase, Esther M., St. Paul
 Blaustone, Henry, Minneapolis
 Blender, Norman W., St. Paul
 Bliss, Marian, Annandale
 Boardman, V. E., Eveleth
 Boehnlein, Charles, Minneapolis
 Bohlen, Florence M., Minneapolis
 Bolin, Hazel, Minneapolis
 Boltz, Edith, St. Paul
 Bomsta, Harriet E., Vancouver, B. C.
 Bond, Charles V., Morgan
 Booth, Bert A., Mountain, N. D.
 Boothroyd, Ralph H., Hanley Falls
 Bosserman, Homer L., Minneapolis
 Bosworth, William R., Mapleton
 Botvidson, Clarence E., Calumet, Mich.
 Bouchard, Amelia, New Ulm
 Bouness, Hazel, Minneapolis
 Boutelle, Fred W., Minneapolis
 Bowe, Lorena, Northfield
 Boxeth, Thora, Seattle, Wash.
 Boxrud, Alf M., Madison
 Boyd, Hattie M., St. Charles
 Boyle, John M., Winthrop
 Boyson, Sadie B., Minneapolis
 Brackett, Constance E., Ismay, Mont.
 Brackett, Mrs. Mary M., Minneapolis
 Bradley, Idella, Tenstrike
 Branae, Caroline, Glenwood
 Breden, Peter L., Hills
 Breed, Ella M., Minneapolis
 Bresnahan, Anna, Lanesboro
 Bresnahan, Catherine, Lanesboro
 Brevig, Olav N., Rothsay
 Brewsaugh, Geraldine V., Superior, Wis.
 Briggs, Mabel, Dodge Center
 Broberg, Agnes, Blue Earth
 Brohaugh, Gustave C., Washington, D. C.
 Brohaugh, George O., Kenyon
 Brohaugh, Mrs. Julia R., Kenyon
 Brohaugh, R. Luella, Shelly
 Broker, Florence, Minneapolis
 Brom, Joseph J., Plato
 Brook, Harley M., Minneapolis
 Bros, Raymond, Minneapolis
 Brose, Leonore L., Luverne
 Brosius, Ernest J., Minneapolis
 Brown, Iva M., Milnor, N. D.
 Brown, Mary C., Stephen
 Brown, Rebecca R., Duluth
 Brown, Sedate M., Albert Lea
 Brunstad, Mabel, Chippewa Falls, Wis.
 Bryan, Marie E., Minneapolis
 Bryan, Nellie G., Rochester

- Buck, Wesley V., Des Moines, Iowa
 Buffington, Gilbert, Stillwater
 Burgess, Harold O., St. Paul
 Burgoyne, Mary E., Albert Lea
 Burgstahler, Edith E., Buffalo Lake
 Burke, Ruth A., Minneapolis
 Burmeister, Marie E., New Ulm
 Burns, Mrs. Louise H., Preston
 Burns, Maria M., St. Paul
 Burwell, John H., Hastings
 Bush, Cora B., Northfield
 Busian, Zella, Minneapolis
 Buswell, Oliver, Minneapolis
 Cadoff, Lillian M., Minneapolis
 Calkins, Mrs. Bertha F., Green Bay,
 Wis.
 Camp, Frances, West Union, Iowa
 Campbell, Blanche E., Winona
 Campbell, Mary K., Minneapolis
 Cannell, Lillian, Bartlett, Kan.
 Carlson, Bernice F., Minneapolis
 Carlson, Jessie, Syre
 Carlson, Mathilda S., Minneapolis
 Carlton, Ella, Coeur d'Alene, Idaho
 Carney, Clara K., Minneapolis
 Carney, Mabel, Minneapolis
 Carney, Oscar L., Minneapolis
 Carr, Mary, Minneapolis
 Carter, Mildred, St. Paul
 Carufel, Abigail, Minneapolis
 Cassel, Carl V. E., St. Peter
 Cassilly, Geraldine, St. Paul
 Cavanaugh, William J., Duluth
 Caylor, L. R., Kimball
 Chambers, Edward G., Owatonna
 Chandler, Floyd A., Minneapolis
 Chase, Ellen M., Minneapolis
 Chisholm, Blanche M., Fargo, N. D.
 Christensen, Edgar W., Little Falls
 Christensen, George C., Robbinsdale
 Christianson, Emma M., Stanley, Wis.
 Christianson, Harry W., Belgrade
 Christie, Ruth, Austin
 Christilaw, George M., Glenwood
 Christofferson, Emily, St. Paul
 Churchill, Asa G., Minneapolis
 Clancy, Catherine, Minneapolis
 Clarke, George B., Minneapolis
 Claussen, Clara M., St. Paul
 Cleifton, Herbert E., Owatonna
 Cochrane, Paul S., Long Prairie
 Coffin, Isa, Minneapolis
 Colahan, Irene, Minneapolis
 Collins, Margaret, Minneapolis
 Condon, Florence, St. Paul
 Condon, Ormond, Minneapolis
 Condy, Pearl H., Minneapolis
 Connell, Mary, Winona
 Cooper, Edna, Oelwein, Iowa
 Cooper, Marie, Minneapolis
 Copeland, Genevieve, Iroquois, S. D.
 Corcoran, John J., Reedsburg, Wis.
 Corson, Benjamin I., Stillwater
 Cotton, Ernest H., Rochester
 Coudich, Daniel, St. Paul
 Craig, David S., Minneapolis
 Cribbs, H. E., St. Paul
 Crim, Grace, Estherville, Iowa
 Croft, Elmer J., Minneapolis
 Cronan, Esther, Minneapolis
 Cross, Laura B., St. Paul
 Crow, Earl R., Walker
 Crowley, Jane, Minneapolis
 Cummins, Lulu, Aberdeen, S. D.
 Cupp, Wanda H., Mora
 Curry, Ezra B., St. Paul
 Cuzner, Fay, Minneapolis
 Cuzner, Hazel, Minneapolis
 Dahlby, Albert J., St. Paul
 Dalager, O. Gerhard, Lake Park
 Daly, Walter A., St. Paul
 Daniels, Elmer A., Minneapolis
 Daniels, Mary L., Minneapolis
 Davidson, Emma L., Riceville, Iowa
 Davis, Gennette C., Minneapolis
 Davis, Maud C., Long Prairie
 de Camp, Malvina, Minneapolis
 Deinard, Amos S., Minneapolis
 Deinard, Benedict S., Minneapolis
 De Long, Leo R., Bellingham
 Denning, George G., Section Thirty
 Devine, Sadie, Albert Lea
 Devitt, Catherine M., St. Paul
 Dickey, Eliza D., Wayzata
 Dickinson, Sherman, Minneapolis
 Didriksen, Philip H., Minneapolis
 Dieken, Anna, Minneapolis
 Dills, May H., Minneapolis
 Dinsmore, Eda, St. Croix Falls, Wis.
 Dittrich, Raymond J., New Ulm
 Dix, Mary B. D., Jefferson City, Mo.
 Doane, F. Wayne, Plainview
 Dolliff, Roger, Redwood Falls
 Donohue, Philip S., St. Paul
 Dorenkamper, Elizabeth, Lismore
 Doslall, Louise T., St. Paul
 Dowd, Evangeline, Lansing
 Downing, Ellison W., Winona
 Doyle, Mary C., St. Paul
 Dresser, Myron A., Minneapolis
 Drohan, Gertrude, Minneapolis
 Dufwa, Thamar E., Pelan
 Dulaney, Anna D., Slater, Mo.
 Dunn, Helen C., St. Paul
 Dunning, Ruth, St. Paul
 Durkin, John, Duluth
 Dvorak, August, Glencoe
 Dvorak, Benjamin O., New Prague
 Dwan, Charles W., Two Harbors

- Dyer, Ethel E., Bingham Lake
 Dykman, Howard, Minneapolis
 Eaton, Bessie E., Keams Canon, Ariz.
 Ebert, Michael H., St. Paul
 Eckman, Lawrence R., New London
 Ecton, Henry L., Minneapolis
 Edgerton, Bessie E., Minneapolis
 Edlund, Elsie E., Minneapolis
 Edlund, Gustaf, St. Paul
 Edsall, Samuel H., Minneapolis
 Edwards, Gucladys M., Lake Crystal
 Egan, Margaret, St. Paul
 Egeland, Bart M., Minneapolis
 Eilers, Mrs. Sara E., Minneapolis
 Ekelund, Clifford T., St. Paul
 Elfmann, William H., Lake Crystal
 Eliassen, Sigurd, Norway
 Ellestad, Irwin M., Lanesboro
 Ellingsen, Will E., Duluth
 Elliott, Ethel, Minneapolis
 Ellis, A. Clyde, Minneapolis
 Ellis, Xenia M., Forest City, Iowa
 Embertson, Emma J., Henning
 Emerson, Byron T., Minneapolis
 Emery, Grace, Pine Island
 Emmel, Dorcas, Minneapolis
 Emmons, Mrs. Virginia C., Minneapolis
 Empié, Josie, Ottumwa, Iowa
 Enches, Helen G., Minneapolis
 Engbretson, Arthur E., Lake Park
 Engelbert, Elmer E., Bronson
 Englund, Esther, Jordan
 Englund, Walter E., Ely
 Erickson, Henning L., St. Cloud
 Erickson, John L., Canby
 Erickson, Mabel, Hastings
 Erickson, Ogda, Litchfield
 Ericson, Agnes, Anoka
 Espeseth, Ingeborg, Battle Lake
 Evans, Blodwen, Mankato
 Evans, Ella A., Montevideo
 Eveslage, Ben F., Melrose
 Ewald, Robert P., Brownton
 Eyler, Godfrey, Minneapolis
 Fallon, Madeline, Hutchinson
 Farley, Liguori, Minneapolis
 Farmer, John, Minneapolis
 Farnam, Laura, Minneapolis
 Farnquist, William C., Minneapolis
 Fawell, Robert., Hot Springs, S. D.
 Felien, Arthur S., Cannon Falls
 Fenstermacher, Louise, Minneapolis
 Ferris, W. C., Crookston
 Fieldhouse, William R., Minneapolis
 Fiero, Low E., Mankato
 Filberg, Augusta, Sherburn
 Finn, Beatryce, Minneapolis
 Fishback, Alta F., Arcola, Ill.
 Fitzgerald, Mary Z., Hartford, Wis.
 Flagg, Alice A., Minneapolis
 Fleenor, Leonard A., Hopkins
 Flood, Ida M., River Falls, Wis.
 Foley, Irene M., Minneapolis
 Ford, Antoinette E., St. Paul
 Ford, Frances A., Minneapolis
 Ford, Mabel, Stewartville
 Fowler, Cora E., Eldorado Springs, Mo.
 Frankforter, Clarence J., Lincoln, Neb.
 Franklin, Emanuel O., Minneapolis
 Fraser, George, St. Paul
 Freedman, Mark, Minneapolis
 Friedl, Irene M., Gibbon
 Friesen, J. John, Mountain Lake
 Fritsche, Dorothy, Minneapolis
 Frye, Jeannette K., Minneapolis
 Gadbois, Mable F., Minneapolis
 Gall, Alice, White Bear Lake
 Gallagher, Edith, St. Joseph, Mo.
 Garber, Ralph J., Gibson City, Ill.
 Gardner, Alice, Minneapolis
 Gardner, Frances M., Minneapolis
 Garrett, Nellie A., St. Paul
 Garvey, Florence M., Minneapolis
 Gauger, Ray R., St. Paul
 Gauthier, Louis, Virginia
 Gavin, John F., Northome
 Gearey, Verne S., St. Paul
 Gebhard, Lilah, St. Paul
 Gedney, Matt, Minneapolis
 Geer, Milton A., Alexandria
 Geraghty, Bridget, St. Paul
 Gerow, Theron G., Minneapolis
 Gibson, Isabel, St. Paul
 Giddings, Guida, Minneapolis
 Gillette, Mrs. Adelaide R., Minneapolis
 Gilpin, Mary F., Alexandria
 Ginsberg, Annie, St. Paul
 Glaessner, Fredericke, Minneapolis
 Gleason, Mary F., Portland, Ore.
 Gleason, Theresa, Stevens Point, Wis.
 Gloege, Arthur J., Bellingham
 Gloor, Arnold, Mound
 Glorvick, Melfin O., Northfield
 Goldsmith, Hertha, St. Paul
 Gooch, Mabel, Ellsworth
 Gorman, Alice, St. Paul
 Gracie, Ralph D., Bemidji
 Graham, Minnie T., St. Paul
 Grangaard, Olga, Waukon, Iowa
 Grass, Mrs. Alice M., Slayton
 Graves, Helen, Minneapolis
 Gray, William A., Hibbing
 Green, Anna B., Sleepy Eye
 Greenberg, Maybelle, St. Paul
 Greene, Lawrence W., Le Sueur
 Greenwald, Merry G., Minneapolis

- Gregory, V. John, Minneapolis
 Griffin, John F., St. Paul
 Grimes, Emma E., Minneapolis
 Grimes, Myrtle B., Le Sueur
 Grodnick, Sam, Milwaukee, Wis.
 Gruenhagen, Arnold P., St. Paul
 Guillemette, Joseph H., Minneapolis
 Gundershaug, J. N., Willmar
 Guthormsen, Anna, Neenah, Wis.
 Guy, Flora M., Minneapolis
 Guy, Josephine, Minneapolis
 Haas, M. Loretta, St. Paul
 Haertel, Walter, Minneapolis
 Haley, Ambrose T., Minneapolis
 Hall, Mabel N., Fairmont
 Hallberg, Ethel, Minneapolis
 Halvorsen, Josephine M., Minneapolis
 Hamilton, Mark F., Minneapolis
 Hammond, Nellie, Lake City
 Hansen, Edna R., Harmony
 Hanson, Anna T., Duluth
 Hanson, Elizabeth M., Grove City
 Hanson, Hilda, Iola, Wis.
 Hanson, Nellie, Sleepy Eye
 Hargrave, G. D., Waterville
 Harper, Harry D., Aitkin
 Harrington, Frances, Minneapolis
 Harrington, Halsey, Minneapolis
 Harvey, Ruth M., Farmington
 Hauser, Emil, Minneapolis
 Hauser, Ludwig J., Minneapolis
 Haverstock, Helen C., Minneapolis
 Hawkinson, Amy, Stillwater
 Hawley, Maurice E., Winona
 Hawlik, Henry, Silver Lake
 Haynes, Manley H., Minneapolis
 Healy, Barbara, Minneapolis
 Healy, Kenneth C., Mankato
 Healy, Mabel L., Langford, S. D.
 Heath, Neva, Hastings
 Heins, Leona M., Le Sueur
 Helgeson, Gail P., Litchfield
 Helsen, Ellen H., Denver, Colo.
 Hellner, Anna M., Oxford, Neb.
 Hellner, Emma, St. Paul
 Helmick, Caroline, Minneapolis
 Helms, Lillian, Excelsior
 Helstein, Minnie, Minneapolis
 Henry, Myron O., Minneapolis
 Hensel, Anna D., St. Peter
 Herber, Myron, Germany
 Herrick, Hazel, Minneapolis
 Hicks, John, St. Paul
 Highberg, Esther M., St. Peter
 Hightshoe, Luella, Hedrick, Iowa
 Hilder, Fannie E., St. Cloud
 Hillary, Mabelle, Hopkins
 Hills, Edythe M., Minneapolis
 Hirshfield, Frank R., Minneapolis
 Hoegh, Harry, Mantorville
 Hoge, Marie, St. Paul
 Hognason, Johanna, Minneapolis
 Holen, Norman A., Minneapolis
 Holmes, Bernt G., St. Peter
 Holt, Agnes, Minneapolis
 Holt, Hazel A., Minneapolis
 Holt, Hazel E., Rochester
 Holter, S. Benjamin, Red Wing
 Holton, Ezra D., Elgin
 Holzheid, Sophie, White Bear
 Holzschuh, Rita, Minneapolis
 Homstad, Leila E., Wheaton
 Hopcock, Eleanor, Minneapolis
 Horton, Mabel E., Minneapolis
 Horwitz, Aaron, Minneapolis
 Hough, Helen E., St. Paul
 Houston, Frank L., Plentywood,
 Mont.
 How, Mary W., St. Paul
 Howard, Merrill A., Minneapolis
 Hubbell, Edna L., St. Paul
 Huey, Harold, Minneapolis
 Hudec, Marie A., Silver Lake
 Hughes, Catherine M., Minneapolis
 Hull, Maurice B., Marshalltown, Iowa
 Hulstrand, Arthur, Hibbing
 Hult, George A., Minneapolis
 Hunn, Fannie, Maiden Rock
 Hunt, Florence, St. Paul
 Huntley, Gertrude, Rush City
 Hurd, Harold R., Minneapolis
 Hurley, A. Cleo, Minneapolis
 Hutchings, Fern B., Sleepy Eye
 Hutchinson, Winslow, Hutchinson,
 Kan.
 Hutchinson, Isabel, Alexandria
 Huus, Randolph, Northfield
 Hynes, Aileen, St. Paul
 Ingberg, Albert, Hendrum
 Ingvalson, Edward C., Lanesboro
 Irie, Maud, Star Prairie, Wis.
 Irwin, Frances, Minneapolis
 Jack, Helen, Minneapolis
 Jacobs, Judith, Northfield
 Jaeger, Edgar M., Minneapolis
 Janes, Eddis E., Hayfield
 Jechlinger, Frances, St. Paul
 Jenkins, Philip J., Minneapolis
 Jenness, Gladys, Minneapolis
 Jensen, Mary C., Litchfield
 Jepson, Beatrice, Minneapolis
 Jepson, Florence, Minneapolis
 John, Edward O., St. Paul
 Johnson, Albert W., Iona
 Johnson, Amil, Clear Lake, Wis.
 Johnson, Anna M., St. Paul
 Johnson, Carolyn A., St. Paul
 Johnson, Conrad G., Duluth

- Johnson, Edward F., Middle River
 Johnson, Ernest W., Larimore, N. D.
 Johnson, Esther M., Alexandria
 Johnson, Frank B., St. Paul
 Johnson, Harry B., Rosebud, Mont.
 Johnson, Henry A., Willmar
 Johnson, Horace E., Minneapolis
 Johnson, Mrs. W. C., Minneapolis
 Johnston, Florence D., Cedar Rapids,
 Iowa
 Jones, Anna R., Minneapolis
 Jones, Elizabeth L., Minneapolis
 Jones, Eva, Blue Earth
 Jones, Mrs. Kate M., Faribault
 Jones, Minnie M., American Falls,
 Idaho
 Jules, Florence, Minneapolis
 Kadesky, David, Aberdeen, S. D.
 Karstad, Luella, Nicollet
 Kasiska, William H., Baraboo, Wis.
 Kavanagh, Maude, Durand, Wis.
 Kavel, Harry W., Minneapolis
 Kavli, W., Minneapolis
 Keefe, Agnes, St. Paul
 Keefe, Anna, Omaha, Neb.
 Keenan, Addie M., Austin
 Kelley, Frances E., Minneapolis
 Kelly, Margaret H., St. Paul
 Kelting, Aubrey N., Minneapolis
 Kendall, Mrs. Minnie J., Hector
 Kennedy, Ella F., St. Paul
 Kennedy, Thomas F., St. Paul
 Kennicott, Robert H., Minneapolis
 Kennison, Leon D., Minneapolis
 Kent, Ronald W., Minneapolis
 Kibbe, Delia E., New Richmond
 Kimball, Eva R., Minneapolis
 Kimball, Martha L., Minneapolis
 King, Bessie, Minneapolis
 King, Harry T., Minneapolis
 King, Luella M., Stewartville
 Kitzmann, Francis R., Faribault
 Klemer, Ruth K., Faribault
 Klippstein, Elsa V., Wabasha
 Knowles, Amos E., Vincennes, Ind.
 Knudson, Anne, Minneapolis
 Kohl, Mathilda, St. Peter
 Kosmoski, Pelagia, Owatonna
 Kozitza, Rose M., Mapleton
 Kraemer, Charles M., Minneapolis
 Kranz, Daisy M., Crookston
 Kraushaar, Rudolph W., Waverly,
 Iowa
 Krough, Sara, Mora
 Krueger, R. G., St. Paul
 Kruse, Elsa, Minneapolis
 Kuehn, Louise, Minneapolis
 Kunzi, Hazel, Minneapolis
 Labbitt, Ray W., St. Paul
 LaBossiere, Cecelia, St. Paul
 LaCroix, Merrill, St. Peter
 Lane, Thomas, St. Paul
 Langford, William K., St. Paul
 Langtry, Monica, Minneapolis
 Langvick, Emma M., Richville
 Langvick, Mina, Richville
 Lapierre, Arthur P., Minneapolis
 Larsen, Ernest L., Willmar
 Larson, Helen I., St. Paul
 Larson, Robert C., St. Paul
 Lee, Orrin, St. Paul
 Leet, Clara B., Conneaut, Ohio
 Lehmann, Grace E., St. Paul
 Lehmann, Hattie E., Crookston
 Lenz, Luella B., Minneapolis
 Leonard, Mary, St. Paul
 Lerner, Polly M., Minneapolis
 Lewandowski, Edward H., Minne-
 apolis
 Lewis, Carroll E., Long Prairie
 Lewis, Jennie E., St. Paul
 Lewis, Sarah, St. Paul
 Liddle, Frank M., Hastings
 Linden, Henning, Minneapolis
 Linnihan, John, Waseca
 Livingston, Guy S., Park Rapids
 Lobdell, Frances, Minneapolis
 Loemans, Emma M., Minneapolis
 Lommen, Georgina, Caledonia
 London, Leah, Minneapolis
 Longfellow, Grace M., Minneapolis
 Loiselle, Erminie, St. Paul
 Lovig, Mrs. Emma A., Sioux City,
 Iowa
 Lowe, Mollie, River Falls, Wis.
 Loye, Edwin M., Minneapolis
 Ludwig, Ezra, Minneapolis
 Lufkin, Bernadine, St. Paul
 Luger, Irving J., Minneapolis
 Lunde, Agathe, Minneapolis
 Lundholm, Edward F., St. Paul
 Lundquist, Alma, Duluth
 Lundquist, Josie, Minneapolis
 Luplow, Walter D., Cottonwood
 Lutz, Imogene, Akeley
 Lyford, Florence, Winthrop
 Lynch, Bessie, Staples
 Lynch, Elinor W., St. Paul
 Lynch, Nellie L., Crawfordsville, Ind.
 Lynch, Rachael, St. Paul
 Lyon, Ethel, Plainview
 Lyons, Mae L., Minneapolis
 McArthur, Laura J., Minneapolis
 McCabe, Margaret N., Deer Lodge,
 Mont.
 McCarthy, Louis A., Minneapolis
 McClellan, Lucia, Minneapolis
 McCormack, Katherine B., Minneapolis

- McCoy, Alice, Minneapolis
 McCoy, Ira C., Chokio
 McCusker, A. Joseph, Minneapolis
 MacDonald, Mercedes, St. Paul
 McGilra, Donald B., Minneapolis
 McGovern, Mayme, Mankato
 McGreaham, Inez, Shawano, Wis.
 McGrorty, Geraldine, St. Paul
 McIntire, Julia M., St. Paul
 MacKechnie, Frances, Minneapolis
 McKenzie, Lenard F., Adrian
 McKernan, Teresa J., Minneapolis
 McKinley, J. Charnley, Minneapolis
 McLachlin, Irma, Hunter, N. D.
 McLachlin, Leslie C., Hunter, N. D.
 McLeod, John R., Minneapolis
 McQueen, Jessie, Mapleton
 McWithy, Reid, Rock Creek
 Macdonald, Flora J., St. Paul
 Macdonald, Jessie, St. Paul
 Macfarlane, Anna H., Duluth
 Mackeen, Helen A., Minneapolis
 Madera, Erma, Lyle
 Madigan, Mark, Maple Lake
 Magnusson, Jennie, Minneapolis
 Maier, M. Agnes, Minneapolis
 Maier, Theresa, Minneapolis
 Maland, Cora, Rushford
 Malmstrom, Axel L., Marquette,
 Mich.
 Manion, Louis J., River Falls, Wis.
 Mann, Harriett E., Kansas City, Mo.
 Manning, J. Howard, Bathgate, N. D.
 Mantta, Jacob, Hancock, Mich.
 Mara, Samuel G., Delano
 Mareck, Alice, Minneapolis
 Markham, Burt A., Alma City
 Markus, Orrin, Owatonna
 Markus, Benjamin, Keewatin
 Marsch, Adelaide, Wabasha
 Marshall, Donald E., Red Lake Falls
 Marshall, Walter J., Serena, Ill.
 Martin, Lulu, Excelsior
 Martin, Martha S., St. Paul
 Mason, Adelaide, Minneapolis
 Mason, Harold C., Somerset, Wis.
 Mason, Rebecca H., Minneapolis
 Mattison, Anna M., St. Paul
 Mattison, Claire L., St. Paul
 Mattson, Chester J., Excelsior
 Matzner, Eric M., New York City
 Maxwell, Bertram W., Minneapolis
 Maxwell, Olive L., St. Paul
 Mayer, Frank A., Minneapolis
 Mealey, Ethel, Minneapolis
 Meany, Elizabeth, Rose Creek
 Melcher, Cora J., Minneapolis
 Melcher, Mary, Salida, Colo.
 Melendy, Avalin, Plainview
 Mellem, Ethel, St. Paul
 Meredith, Lucile, Minneapolis
 Merrill, Dorothy S., Minneapolis
 Metz, Lina, Ottumwa, Iowa
 Michaelson, L. Mathilde, Minneapolis
 Mickelsen, Stanley R., St. Paul
 Miles, Calista M., Minneapolis
 Miller, Jane S., St. Paul
 Miller, Jay W., Mitchell, S. D.
 Miller, Loana M., Nome, Alaska
 Miller, Mathilda, Whittemore, Iowa
 Miller, Maude J., St. Paul
 Miller, Oliver H., Minneapolis
 Miller, Virginia, Austin, Texas
 Millhouse, Edwin C., Minneapolis
 Mills, Julia, Minneapolis
 Mills, Marjorie, Minneapolis
 Mitchell, Lottie, Minneapolis
 Moffat, George N., Minneapolis
 Montgomery, Herbert L., Minneapolis
 Moonan, Grace, Waseca
 Mooney, Edward A., Duluth
 Moran, Thomas A., Osseo
 Morehead, Oliver J., Wessington
 Springs, S. D.
 Morehouse, Mrs. Leah, Minneapolis
 Moriarty, Mary, St. Paul
 Moriette, Gladys, Minneapolis
 Morrison, Kathryn, Minneapolis
 Morrissey, Dorothy, St. Paul
 Morse, Minerva, Minneapolis
 Moser, Gertrude C., Robbinsdale
 Mosford, Alice M., Clear Lake
 Moule, Harvey, Mason City, Iowa
 Moynahan, Frances, Minneapolis
 Muench, Joseph F., Mountain Iron
 Muller, Carl C., Gibbon
 Munson, Anna, Kenyon
 Murdock, Mrs. Agnes, Alwood
 Murnik, Beatrice, Eveleth
 Murnik, Mrs. J. J., Eveleth
 Murphy, Anna L., Minneapolis
 Murphy, Mary L., Minneapolis
 Murray, May, Minneapolis
 Myhre, O. O., Minneapolis
 Myrah, Esther, Spring Grove
 Naundorf, Rosa, Minneapolis
 Nearpass, Homer L., Anoka
 Nelson, Grace I., Minneapolis
 Nelson, Lillian E., Minneapolis
 Nelson, Mabel O., Cloquet
 Nelson, Philip M., Chetek, Wis.
 Nelson, Sena C., Flasher, N. D.
 Nelson, Theresa, Hastings
 Nerad, Anton H., Austin
 Ney, B. Irene, Glencoe
 Nicklas, Mabel F., Minneapolis
 Nicolai, Elizabeth M., Montevideo
 Nikodym, Alouise, Hopkins

- Niles, Katherine, Minneapolis
 Nilsen, Frida, Northfield
 Nippert, Louise, St. Paul
 Nisbit, Jane, Rochester
 Nobbs, Arthur H., St. Paul
 Noble, Lucile, Minneapolis
 Nolan, Helen E., St. Paul
 Nolan, Margaret M., St. Paul
 Noll, Alfred J., Bigstone City, S. D.
 Norris, William K., Minneapolis
 Nye, Ellen S., Minneapolis
 Nyquist, Anna N., Eagle Lake
 O'Brien, Mrs. Joan D., Minneapolis
 O'Connell, John F., Minneapolis
 O'Connell, Mary, La Crosse, Wis.
 O'Connor, Agnes, Minneapolis
 O'Halloran, Frances, Chatfield
 O'Keefe, Timothy, Elysian
 Oberg, Grace, Center City
 Oberg, Mabel, Minneapolis
 Oldenburg, Paul H., Montgomery
 Olson, Anna, Litchfield
 Olson, Emma, Duluth
 Olson, Frank O., Mitchell, S. D.
 Olson, Hilda, Duluth
 Olson, Valborg T., Minneapolis
 Oredalen, Olina, Kenyon
 Orendorff, Alta, Randolph, Ill.
 Ortman, Florence, Morris
 Ortman, Mildred, Morris
 Osborn, Henry L., St. Paul
 Ostby, Aslack J., Minneapolis
 Ostedt, J. H., St. Paul
 Ostrander, Janie, Spring Valley
 Owen, Amos D., Minneapolis
 Owen, Marguerite, Minneapolis
 Painter, D. H., Minneapolis
 Palmer, C. Foster, Albert Lea
 Pan, Wen-ping, China
 Papenthien, Roy O., Minneapolis
 Paquette, Peter M., Waubun
 Parker, Frances P., Newport
 Patchin, Nelle, Wyocena, Wis.
 Patton, Edwin J., St. Paul
 Paulson, Earl B., Minneapolis
 Paulson, Emma, Two Harbors
 Pavek, William J., New Prague
 Payette, Charles T., Minneapolis
 Pearson, Albert E., Long Prairie
 Pearson, Fritz R., Hudson, Wis.
 Pecholt, Charles F., Sanborn
 Peck, Edna C., Memphis, Mich.
 Pederson, O. Edward, Minneapolis
 Pehoushek, Elizabeth V., Minneapolis
 Peirce, Mabel J., Faribault
 Pellatt, Amy, Minneapolis
 Peoples, John S., St. Paul
 Perkins, Nelline, Pine Island
 Perry, J. W., Eagle Bend
 Peterson, Atry H., Eveleth
 Peterson, Victor C., St. Peter
 Petri, Franklin, Minneapolis
 Petrich, Ida B., Plainview
 Petrie, Roy A., Deer Creek
 Petry, Noah E., Berthold, N. D.
 Picha, Benjamin, St. Paul
 Pierce, Elizabeth B., Minneapolis
 Pierce, Harriet, St. Paul
 Pierce, Helen M., Minneapolis
 Pinkerton, Laura, Glenwood
 Piper, Gertrude, Minneapolis
 Plummer, Winnie, Minneapolis
 Pluto, Louis J., Long Prairie
 Poole, Gladys, Truman
 Powell, Knox A., Minneapolis
 Prendergast, Harold J., St. Paul
 Prendergast, Katherine, St. Paul
 Prest, Marion, St. Paul
 Price, Mrs. Laura S., Preston
 Probst, Ella, Minneapolis
 Proshok, H. Frank, New Prague
 Prudden, Earl D., St. Paul
 Putnam, Alice E., Blue Earth
 Pyne, Mrs. Agnes, St. Peter
 Quigley, Margaret, Butte, Mont.
 Quigley, Mary L., Butte, Mont.
 Quinlan, M. Adele, St. Paul
 Radebaugh, Grace, Minneapolis
 Randall, Ada M., Minneapolis
 Randall, Larcom, St. Paul
 Randall, Laura, Bald Eagle Lake
 Rankin, Elizabeth, Warren
 Rasmussen, Einar, Minneapolis
 Raugland, Arnold I., Minneapolis
 Rawlings, Carlos V., Minneapolis
 Rawlings, Mabel, Minneapolis
 Rectz, Otto A., Bloomer, Wis.
 Reeve, Ethel B., Washington, Ind.
 Reich, Hattie E., Springfield, Mo.
 Reid, Mabel E., Red Wing
 Reid, Mary F., Canada
 Reinertsen, S. G., Lake Mills, Iowa
 Reinhold, Charles O., Northampton,
 Pa.
 Relf, Kenneth A., St. Paul
 Remund, Arthur C., Weatherford,
 Okla.
 Reu, Albrecht H., Dubuque, Iowa
 Reznikov, Alexandra, St. Paul
 Rich, Helen, Minneapolis
 Richards, Grace, Minneapolis
 Ringdahl, N. Robert, Rush City
 Ringoen, Adolph R., Minneapolis
 Rist, Lewis M. B., Algona, Iowa
 Ristvedt, Juliana, Northfield
 Roberts, Edith M., St. Paul
 Roberts, Morris, St. Paul
 Robinson, Elizabeth, Minneapolis

- Robinson, Mary L., Peoria, Ill.
 Rockwell, Howard S., Duluth
 Rodger, Marjorie, Minneapolis
 Roe, Ellen F., St. Paul
 Roe, Viola, Hudson, Wis.
 Roedell, Clarence A., Minneapolis
 Rogers, Margaret, Minneapolis
 Rogers, Myrtle, Stevens Point, Wis.
 Rolland, Marius, Thief River Falls
 Rood, Belle, St. Paul
 Rosenwald, Oswald H. E., Norwood
 Ross, Mary, Baldwin, Kan.
 Roth, Ernest G., Lambertton
 Rourke, Mary, Minneapolis
 Routh, Margaret, St. Paul
 Rowley, W. N., Rochester
 Rucker, J. Edward, Minneapolis
 Rumsch, Hertha, South St. Paul
 Ruschi, Arthur J., Minneapolis
 Russel, J. C., McPherson, Kan.
 Russell, Cora, Plattsville, Wis.
 Rutherford, Violet M., Minneapolis
 St. Clair, Leona, Owatonna
 Saevig, August, Rushford
 Salet, Harry N., St. Paul
 Salisbury, Emmett D., Excelsior
 Sampson, Cheslea A., Excelsior
 Sanders, George P., Palisade
 Savage, Eliza T., Windom
 Savage, H. Rebecca, Humboldt, Iowa
 Sawers, Orba, Bismarck, N. D.
 Schaffnit, Dorothy, Minneapolis
 Schaufuss, Charles, Minneapolis
 Schmitt, Harrison A., Minneapolis
 Schmokey, George W., Winona
 Schober, Jennie M., Minneapolis
 Schoelkopf, Hazel, St. Paul
 Schroeder, William F., Mountain Lake
 Schwartz, Louis F., Minneapolis
 Schwennsen, Anne, St. Paul
 Schwerin, Mabel E., Minneapolis
 Schwoebel, Florence, New Rockford,
 N. D.
 Scofield, Robert J., Zumbrota
 Seder, R. Irvn, Preston
 Selke, Arthur C., Minneapolis
 Selke, George A., Minneapolis
 Selke, W. Erick, Minneapolis
 Sellhorn, Minnie D., Princeton
 Severson, Samuel O., Minneapolis
 Shannon, Nell R., Bemidji
 Shaughnessy, Clark D., St. Paul
 Shelland, Annie, St. Paul
 Shenehon, Eleanor, Minneapolis
 Shimota, Lewis L., Veseli
 Shumway, Olive, Aberdeen, S. D.
 Shute, Mrs. L. B., Minot, N. D.
 Sidnam, Alma J., Minneapolis
 Siekkinen, Charles A., Duluth
 Sime, Marjorie, St. Paul
 Simon, Clara J., St. Paul
 Simon, Ellen M., St. Paul
 Simper, Sara, Minneapolis
 Sister Eugenia Maginnis, St. Paul
 Sister Laetitia, Minneapolis
 Sister M. Aquinas Norton, Rochester
 Sister M. Edwin Sweeney, St. Paul
 Sister Mary Eugene Woolsey, St. Paul
 Sister Victoria, Minneapolis
 Siverson, Clara, Waton
 Sjogren, Carl J., Minneapolis
 Skinner, John J., Owatonna
 Slindee, Carrie L., Adams
 Sliney, Elizabeth J., St. Paul
 Smiley, Proctor K., Kellogg
 Smith, Charlotte T., Minneapolis
 Smith, E. May, Minneapolis
 Smith, Edith C., Iowa City, Iowa
 Smith, Eunice H., St. Paul
 Smith, Helen M., Minneapolis
 Smith, Mary B., Minneapolis
 Smith, Merle E., Elk River
 Smith, Milton J., Minneapolis
 Smith, Theo T., Owatonna
 Sneller, Charles D., Minneapolis
 Snyder, James M., Fulda
 Soderlind, Ralph, Minneapolis
 Solveson, Herbert N., Oconomowoc,
 Wis.
 Sommermeyer, Viola L., Minneapolis
 Sommers, Harold, St. Paul
 Soper, Edgar K., Moscow, Idaho
 Sorensen, Ray, LeRoy
 Sparks, Hannah D., Minneapolis
 Spaulding, Helen, Minneapolis
 Stav, Cora M., Dennison
 Steabner, Herman W., Wood Lake
 Steel, Harry J., Mankato
 Steenerson, Ingeborg, Climax
 Steenson, Myrtle, Minneapolis
 Stelter, Clarence H., Danube
 Stevens, Charlotte I., Faribault
 Stewart, Chester A., Minneapolis
 Stewart, Hope, Stillwater
 Stone, Genevieve L., Minneapolis
 Storlie, Carolyn N., Minneapolis
 Street, Claude W., Glencoe
 Stroeter, Sophia, Princeton
 Stub, Chresten A., Minneapolis
 Stuvland, Adolph L., Northfield
 Sullivan, Lillian X., St. Paul
 Sumner, Bernice, Blue Earth
 Sund, Joseph A., Duluth
 Sunderland, Henry, Badger
 Sundkvist, Gerald E., St. Paul
 Sushansky, Harry M., Minneapolis

- Swanson, Agnes W., Cannon Falls
 Swanson, Esther L., Minneapolis
 Sward, Merrily, St. Paul
 Swedberg, Luella, Luverne
 Sweeney, Anna, Rochester
 Sweet, Earl, Minneapolis
 Sweet, Minetta V., Alexandria
 Sweetman, Gertrude C., St. Paul
 Swenson, Clarence Q., Minneapolis
 Swenson, E. Hildegard, Minneapolis
 Swenson, Hedvig, Montevideo
 Swenson, Hildur E., Minneapolis
 Swenson, Roger B., Minneapolis
 Sylvester, Charles C., River Falls, Wis.
 Symes, Ruth, River Falls, Wis.
 Syse, Emma R., Kerkhoven
 Syvertson, Selmar, Whalan
 Talle, Henry O., Albert Lea
 Taylor, Mrs. Adeline, La Crosse
 Taylor, Edwin J., Howard Lake
 Taylor, G. Frank, Excelsior
 Tenbroeck, Robert C., Minneapolis
 Terryberry, Helen L., Duluth
 Thelander, Roy F., St. Paul
 Thiel, Albert F., Minneapolis
 Thiel, George A., Staples
 Thomas, John D., Minneapolis
 Thompson, Antoinette, Minneapolis
 Thorsen, Carl I., St. Paul
 Thorstad, Francis, Wheaton
 Thorstad, Gladys T., Wahkon
 Thurman, Wesley, Franklin
 Thygeson, Elling, St. Paul
 Thygeson, Ruth A., St. Paul
 Tibbetts, L. Isabel, Minneapolis
 Tigert, John J., Lexington, Ky.
 Todt, Helen M., Minneapolis
 Tolson, Edgar, St. Paul
 Toner, Minnie A., Barry
 Tonning, Katherine, Moorhead
 Towey, Robert, Minneapolis
 Towne, Ralph H., Dawson
 Tri, Peter N., St. Vincent
 Trilling, Mabel B., St. Paul
 Tschida, Rose M., Glen Ullin, N. D.
 Turnquist, Anna S., Minneapolis
 Utne, Theodore, Norwood
 Valentin, Sadie, Aberdeen, S. D.
 Vanasek, Rose, New Prague
 Van Ness, Elise, Minneapolis
 Van Valkenburg, Frederick W., Long Prairie
 Virnig, Leo F., Pierz
 Voak, Florence, Worthington
 Wachlin, Antonia, Brownsdale
 Wagener, Leona M., Bagley
 Walker, Adele F., Minneapolis
 Walker, Margaret E., Minneapolis
 Warner, Elizabeth, Minneapolis
 Warwick, Margaret, Minneapolis
 Waterman, Dorothy W., Minneapolis
 Waterman, Emma, Minneapolis
 Waterous, Fred A., St. Paul
 Watson, Florence H., St. Paul
 Watson, Jeanette B., Minneapolis
 Watson, Marie L., St. Louis Park
 Watson, Mrs. Noble D., Welcome
 Watts, Marie M., Minneapolis
 Waufle, Grace G., St. Paul
 Webster, Marion E., Minneapolis
 Webster, Ruth, St. Paul
 Wedin, Jessie, Grantsburg, Wis.
 Weigley, Mildred, Chicago, Ill.
 Weiss, George, Minneapolis
 Welch, V'Lora, Minneapolis
 Wendlandt, Paul, Good Thunder
 Wentz, Anna, Minneapolis
 Werdenhoff, James H., Minneapolis
 West, Marion O., Lincoln, Neb.
 Westline, Walter, Fountain
 Whaley, Frances, St. Paul
 White, Carrie A., Minneapolis
 White, Donald F., Anoka
 White, Philip T., Ely
 White, Roy W., Clearwater
 Wichman, Marie, St. Paul
 Widell, Eleanor, Mankato
 Wiencke, Otto J., Balaton
 Wilkins, Mary S., Minneapolis
 Wilkinson, Sarah H., Minneapolis
 Willard, Clara E., Mankato
 Williams, Arthur H., Minneapolis
 Williams, Margaret R., Minneapolis
 Williams, Maude E., Mora
 Willis, Bessie C., Minneapolis
 Willits, Eleanor, Minneapolis
 Willoughby, Alice J., Minneapolis
 Wind, Kate, Hopkins
 Winter, Winifred L., Minneapolis
 Winther, Olav S., St. Paul
 Wise, Ferne, Blue Earth
 Witte, Bernard J., Jr., Anoka
 Witty, Walter H., St. Peter
 Wold, Alvin P., St. Paul
 Wold, Kathryn O., Princeton
 Wolf, Amelia E., Nerstrand
 Wolf, Edward J., Minneapolis
 Wolf, Gertrude, Faribault
 Wollin, Richard H., Utica
 Womack, Frances, Excelsior
 Womack, Weldon, St. Paul
 Wood, Margaret J., Minneapolis
 Wood, Ruth M., Minneapolis
 Woodford, Constance, Lake City
 Woodward, Helen, Minneapolis

Woodward, Josephine, Minneapolis
 Woodward, Marion, Minneapolis
 Wright, Stewart V., Dennison
 Wyatt, L. Dale, Mount Sterling, Ill.
 Wyatt, Oswald S., Minneapolis
 Wylie, Angeline, St. Paul

Yates, Edith, Manson, Iowa
 Ylvisaker, Laurits S., St. Paul
 Young, Clare M., Spring Valley
 Young, Katherine G., Minneapolis
 Young, Marie L., Minneapolis

THE COLLEGE OF AGRICULTURE—SUMMER SESSION, 1916—201

Aamodt, Arne, St. Paul
 Adams, Floyd, Owatonna
 Amundsen, Harriet, Detroit
 Anvid, Anna, Blackduck
 Beach, Mary J., Minneapolis
 Belknap, Arthur A., Alpha, Iowa
 Benton, Dwight W., St. Paul
 Berning, Theodore, Renville
 Bixby, Jacob, Richville
 Bjorka, Knute, Fergus Falls
 Borman, R. R., Abercrombie, N. D.
 Broecker, Lydia, Stillwater
 Frohaugh, R. Luella, Shelley
 Brown, Clair, Greensbury, Ind.
 Brown, Frank H., Minneapolis
 Brown, Genevieve, St. Paul
 Brunning, George, Sebeka
 Buster, Spencer, Colton, Cal.
 Callan, Marie, Minneapolis
 Chapman, F. W., Westbrook
 Cheney, Leslie, Mantorville
 Colby, Leslie, Madelia
 Collette, Allen, Pine City
 Colman, Lloyd, Grand Meadow
 Coon, Ruby, Minneapolis
 Curtis, Alberta, Chicago, Ill.
 Dahl, Florence, Minneapolis
 Dahlberg, Arthur, St. Paul
 Dahle, Chester D., Minneapolis
 Doherty, Francis, Pipestone
 Doherty, Robert, St. Paul
 Dollenmayer, Dorothy, Minneapolis
 Doney, Grace, Faribault
 Dowty, Wilhelmine, Hamilton, Ohio
 Drew, Margaret, St. Paul
 Dunn, Ben, Frederic, Wis.
 Easton, Laura, Wessington Springs,
 S. D.
 Eaton, Bessie, Keans Canon, Ariz.
 Ellingsen, Thorvald, Christiana,
 Norway
 Ely, Fordyce, St. Paul
 Engbrestson, Arthur E., Lake Park
 Engen, Nels M., Warren
 Erickson, Ellen J., Alexandria
 Falkenhagen, Gertrude, Montevideo
 Feetham, Nellie, St. Paul
 Felling, A. L., Wausau
 Filberg, Augusta, Sherburn

Fitzgerald, Louise, Fargo, N. D.
 Frandle, G. J., Frost
 Ganssle, Anne, Minneapolis
 Gaumnitz, Christina, St. Paul
 Gublin, Elizabeth, St. Paul
 Gibson, Beatrice, Minneapolis
 Gillig, Edward, St. Paul
 Girrbach, George, St. Paul
 Gregg, M. H., Zumbro Falls
 Gregory, Walter, St. Cloud
 Gustafson, Albertha, Minneapolis
 Hackett, S. M., St. Louis Park
 Hammargren, F. August, Harris
 Hanson, Anna, Goodhue
 Hanson, George B., Melby
 Hanson, Theodore, Dawson
 Harlan, Rex, St. Paul
 Harney, Malachi, Cloquet
 Haugen, Esther, Pelican Rapids
 Hause, Margaret, St. Paul
 Healey, Mabel, Langford, S. D.
 Hephner, Emmet, Loyal, Wis.
 Hickok, Helen, Minneapolis
 Hill, Harry, Elk River
 Hill, Harry Herman, Kimball
 Hilliard, Milton, Brainerd
 Holm, Inez, Twin Valley
 Hough, Helen, St. Paul
 Ilse, George, Brainerd
 Iverson, Carl, Ashby
 Jacobson, Arthur E., Alexandria
 Jepson, Lydia, Minneapolis
 Johnson, Arthur S., Fergus Falls
 Johnson, Esther, St. Louis Park
 Johnson, Harry, Eagle Bend
 Johnson, Nelle, Oklahoma City, Okla.
 Johnson, Oscar L., Mazeppa
 Johnson, Robert, Willmar
 Kaercher, Charles, Minneapolis
 Kay, Gertrude, Minneapolis
 Kelley, Frances R., Minneapolis
 Kildahl, Lars, St. Paul
 Knight, Patience, Taylors Falls
 Kozitza, Andrew, Mapleton
 Kozitza, Susan, Mapleton
 Kreinbring, George, Badger
 Kuefler, Bernard, Belgrade
 Kuefler, Herbert, Belgrade
 Larson, Florence, Alexandria

- Laurence, Elsie, Canonto, Canada
 Lauzer, Abby, Minneapolis
 Lawton, J. Waldemar, Dawson
 Lippman, Joseph, Virginia
 Loken, Carrie, Minneapolis
 Lucius, Theresa, St. Paul
 McCallum, Roy, Richmond
 McCarty, Mark, Mapleton
 McKee, John, Madelia
 McKenney, Richard, Minneapolis
 McKnight, Gibson, St. Paul
 McQueen, Jessie, Mapleton
 MacArthur, Laura, Minneapolis
 MacFarland, Anna, Duluth
 Madera, Erma, Lyle
 Maland, Cora, Rushford
 Mangskau, Mrs. Anna, Breckenridge
 Marshall, Lawrence, Reading
 Martin, Archie, Deer River
 Mealey, Ethel, Minneapolis
 Mereness, Carol, Windom
 Miller, Jens P., Bruno
 Molenaar, Richard, Raymond
 Monasch, Marcella, Minneapolis
 Montgomery, B. L., Blue Earth
 Moore, Fred F., Carleton
 Morlander, George A., Williams
 Morris, Laura, Eden Prairie
 Muench, Henry, Cochrane, Wis.
 Nelson, Carl E. E., Minneapolis
 Newbauer, August, Smithville
 Newberg, Esther, Hibbing
 Newman, Loretto, St. Paul
 Nolan, Margaret, St. Paul
 Nordby, Peter, Holmes City
 Oberg, Grace, Center City
 Odland, Theodore, Bertha
 Oman, Emil, Grandy
 Parish, Corinne, St. Paul
 Parker, Frances, Gilbert
 Peck, H. Ferne, Zumbrota
 Peters, William A., St. Paul
 Peterson, Albert, Swea
 Peterson, Emma, Minneota
 Peterson, Helen, Atwater
 Peterson, Henry, Ashby
 Pierce, Harriet, St. Paul
 Pilling, Clara, Edgerton
 Pinkerton, Laura, Glenwood
 Pirsch, Gregor, Caledonia
 Pond, George A., Shakópee
 Posey, Mrs. Maude, Minneapolis
 Prichard, Everett, Randolph, Wis.
 Race, Herbert, Erie
 Reeve, Ethel, Washington, Ind.
 Roberts, William E., Cambria, Wis.
 Robinson, Sherrill, Kimball
 Rockwood, D. C., St. Cloud
 Rockwood, Hazel, Madelia
 Rodger, Marjorie, Minneapolis
 Ryan, Anna M., Minneapolis
 Saed, T. J., Ettrick, Wis.
 Samuelson, S. Ernest, Henning
 Schoelkopf, Hazel, St. Paul
 Schrupp, Edgar H., Henderson
 Seavey, Barbara, Aitkin
 Seavey, Myra, Aitken
 Sedwick, Charles, Hopkins
 Skrivseth, Clarence, Turtle River
 Smith, Eunice, Minneapolis
 Smith, Mrs. Myrtle, Maple Lake
 Smith, Ralph B., Maple Lake
 Souba, Arthur, Hopkins
 Spaulding, William E., Minneapolis
 Staley, Katherine, St. Paul
 Strobel, G. Albert, Mankato
 Sturges, Agnes, Minneapolis
 Stuvland, Melvin, Northfield
 Sunderland, George, Badger
 Swennes, Agnes, Minneapolis
 Swift, Ray, Sioux Falls, S. D.
 Teichrow, Henry, Mountain Lake
 Temmey, Katherine, Onida, S. D.
 Thom, Pearl, Rushmore
 Thomas, John D., Minneapolis
 Thundstedt, G. A., Willmar
 Thundstedt, W. A., Willmar
 Thurston, Onah, Minneapolis
 Umpleby, Grace, St. Paul
 Valentin, Sadie, Aberdeen, S. D.
 Varner, Glenn, St. Cloud
 Vermilyea, George, Verndale
 Vietz, John Jay, Excelsior
 Vig, Agnes, Fosston
 Walsh, Margaret, St. Paul
 Washburn, Muriel, Elk River
 Weech, Raymond, Brook Park
 Wells, Ellen H., Minneapolis
 Wells, Francis Grant, Walker
 Wentz, Anna, Minneapolis
 Whitwell, Elizabeth, St. Paul
 Williams, Mary L., Minneapolis
 Williams, Maude E., Mora
 Winkelman, Bernard, Clear Lake
 Wright, Daisy M., St. Paul

THE COLLEGE OF DENTISTRY, SUMMER SESSION—86

Abell, Walter J., St. Cloud
 Andersen, Leroy C., South Stillwater

Beckenstein, Isadore A., Minneapolis
 Bergh, Ingvald G., Madison

- Borovsky, Abe, Minneapolis
 Brandenburg, George A., Minneapolis
 Brooks, Fiske, Minneapolis
 Buehler, John E., Minneapolis
 Butler, George V., Minneapolis
 Cary, Milburn J., Virginia
 Chisholm, David R., Chippewa Falls,
 Wis.
 Colburn, Daniel N., Minneapolis
 Dahl, Casper, Grafton, N. D.
 Dampier, Donald G., St. Paul
 Daum, Leo A., Minneapolis
 Davis, Vernon W., White Earth
 Diamond, Hyman A., Minneapolis
 Evjen, Einar A., Minneapolis
 Feeney, Howard S., Glenwood
 Fossum, Edgar A., Dassel
 Geddes, Donald D., Anoka
 Gerde, Magnus A., Minneapolis
 Gletne, Jalmer S., Moorhead
 Gullings, Ingeman O., Detroit
 Hallum, Ferdinand, Whalen
 Halvorsen, Jorgen, Norway
 Hansen, Elmer L., Harmony
 Hartwig, Joseph I., Minneapolis
 Healy, Clifford J., Wykoff
 How, Roy M., Cambridge
 Kennedy, Walter J., Marshall
 Kirkpatrick, Frederick K., Parkers
 Prairie
 Koppes, Albrecht J., St. Paul
 Larson, William J., St. Paul
 Leighton, Emmet, Minneapolis
 Lenz, Mandel M., Duluth
 Lillehei, Clarence I., Luverne
 Lorhammer, Gustav A., Norway
 Madsen, Edwin C., Minneapolis
 Meacham, Lloyd, Edgerton
 Miszewski, Aurelius H., Minneapolis
 Morcom, Harold E., Soudan
 Neiman, Robert, Minneapolis
 Nellerroe, Joy O., Buffalo Lake
 Nelson, Clarence A., New Richmond,
 Wis.
 Newman, Allen T., Minneapolis
 Nishioka, Masahito, Japan
 Obermeyer, Fred C., Minneapolis
 Paske, Charles H., Stuart, Fla.
 Peterson, Palmer L., Eau Claire, Wis.
 Peterson, Walter F., Rushford
 Pink, David, Minneapolis
 Plonty, Earl W., Morristown
 Price, Milton A., Chatfield
 Radke, W. Lynn, New Rockford, N. D.
 Reinking, Henry N., Hamel
 Ribbel, George H., Brainerd
 Robb, George L., Jr., Minneapolis
 Robinson, John F., Bertha
 Rodman, Duane E., Akeley
 Roelike, Stephen J., Melrose
 Rosenbloom, Samuel S., Ely
 Rosenthal, Victor M., New Orleans,
 La.
 Ryan, Edward M., East Grand Forks
 Schuft, Adolph F., Hutchinson
 Sell, Charles A., Adrian
 Shanahan, Raymond, Minneapolis
 Simonson, August E., Brainerd
 Smith, Vernon D., St. Paul
 Starr, Oriss D., Cambridge
 Stenborg, William A., Sacred Heart
 Stone, Harvey C., Edgerton
 Stunkard, Byron W., Arnegard
 Sullivan, T. Emmet, St. Paul
 Tibesar, Frank E., Crookston
 Tomasek, Anthony T., St. Paul
 Watson, William E., Minneapolis
 Wedin, Arthur C., Hector
 Wendell, Lehman, Minneapolis
 Werner, Conrad O., Lindstrom
 West, Earl C., Brownton
 Whitaker, Vernon D., Litchfield
 White, Mrs. Eleonora, Minneapolis
 Wild, Harry, Winona
 Williams, Sigfred G., Minneapolis
 Wolff, Douglas, Kimball

THE MEDICAL SCHOOL SUMMER SESSION—92

- Anderson, David D., Minneapolis
 Anderson, Edward D., Minneapolis
 Annon, Walter T., Anoka
 Baker, Alfred T., Minneapolis
 Blakey, Adam R., Estherville, Iowa
 Bregel, Fred L., Minneapolis
 Broker, Walter S., Minneapolis
 Buscher, Herbert H., St. Paul
 Caldwell, Kenneth S., St. Paul
 Calkins, Leroy A., Wadena
 Cochran, Joseph P., Minneapolis
 Cohen, J. G., Minneapolis
 Cole, Wyman C. C., Minneapolis
 Coon, Ruby M., Minneapolis
 Countryman, Roger S., St. Paul
 Daniels, J. Horton, Minneapolis
 Davis, Irl R., Henderson
 Desha, L. J., Memphis, Tenn.
 Ekelund, Clifford T., St. Paul
 Farnham, Russell M., Minneapolis
 Finberg, Joseph, St. Paul
 Flagstad, Albert, Minneapolis
 Flocken, Charles F., Minneapolis
 Forsythe, S. T., Canonsburg, Pa.

- Foster, William K., Minneapolis
 Freed, Oscar J. R., Watertown
 French, Henry S., Northfield
 Gamble, Joseph W., Minneapolis
 Gammell, J. Henry, Madison
 Giere, Silas W., Sacred Heart
 Groebner, Otto A., Minneapolis
 Gruenhagen, Arnold P., St. Paul
 Hall, William W., Minneapolis
 Hardinger, Paul M., Chicago, Ill.
 Hartley, Everett C., Carver
 Hartwig, Joseph Q., Minneapolis
 Hathaway, George J., Minneapolis
 Haynes, Manley H., Minneapolis
 Herrmann, Edgar T., St. Paul
 Hocum, Harold E., Minneapolis
 Huderle, Arthur, Hutchinson
 Kadesky, David, Aberdeen, S. D.
 Karpman, Benjamin, Poughkeepsie, N. Y.
 Kennedy, George L., Minneapolis
 Kennedy, Harry T., Minneapolis
 Kennicott, Robert H., Minneapolis
 Larson, Albert M., Jasper
 Larson, Clarence M., Thief River Falls
 Latimer, Homer B., Lincoln, Neb.
 Lick, Lewis, St. Paul
 Lowe, Thomas A., Hadley
 Lund, Theodore C., Salt Lake City,
 Utah
 McCarthy, Donald, Minneapolis
 McGeary, George E., St. Paul
 McGrath, Floyd L., Chicago, Ill.
 Magoon, Charles A., Pullman, Wash.
 Miller, Harry A., Rice
 Morrissey, Frank B., Minneapolis
- Mulder, John L., Rock Valley, Iowa
 Murphy, Leo, Minneapolis
 Murphy, W. Holland, St. Paul
 Nelson, Lewis E., Oldham, S. D.
 Nelson, Orville N., Battle Lake
 Nerad, Anton H., Austin
 Ohlendorf, Clarence, Park Ridge, Ill.
 Oliver, Henry E., Chicago, Ill.
 Oppenheim, Charles J., Chicago, Ill.
 Palmer, C. Foster, Albert Lea
 Pearson, Fritz R., Hudson, Wis.
 Pederson, Nellie C. E., Minneapolis
 Radusch, Frieda J., Minneapolis
 Reinhardt, William R. L., Spokane,
 Wash.
 Roberts, Lyle J., Omaha, Neb.
 Rumpf, William H., Jr., Faribault
 Runnerstrom, George E., Waseca
 Rutledge, Lloyd H., Minneapolis
 Sahr, Walter G. C., Minneapolis
 *Salmon, Lorne H., St. Paul
 Scholtes, Harry, Wabasha
 Seibel, John J., Harvey, N. D.
 Seifert, Louis, Lamberton
 Snell, Albert M., Lake Park
 Solhaug, Sam B., Starbuck
 Sturre, Julius R., St. Paul
 Swanson, Edwin O., Brainerd
 Tanner, Chester O., Minneapolis
 Ternstrom, Oscar H., Minneapolis
 Tiber, Leon J., St. Paul
 Vaughn, Florian, Shelby, Mo.
 Wallinga, John H., Hull, Iowa
 Zanger, Henry G., Minneapolis
 Zierold, Arthur A., Minneapolis

THE UNIVERSITY HIGH SCHOOL—138

POST-GRADUATE—1

Kelley, Rodney F.

SENIORS—26

- Bachman, Graydon
 Betcher, Chester
 Blossingham, Hazel
 Bonde, Reiner
 Briggs, Joyce
 Brinkman, Lillian
 Burns, F. Bernard
 Carney, Sara
 Erickson, Milda
 George, Dorothy
 Jensen, Esther
 Keefe, Ruth
 Keefe, William
- Kernes, Bertha
 Kriger, Simon
 Pederson, Ole
 Peterson, Henry
 Riley, Phillip
 Rosenblut, Aaron
 Saul, Richard
 Spencer, Honora
 Terry, Kenneth
 Timberlake, Emma
 Towle, James E.
 Waters, Roy
 Weis, Lorene

*Died, September, 1917

JUNIORS—29

Alway, Lazelle
 Alway, Leonore
 Bachman, Clauda
 Braddy, Harry
 Briggs, Juua
 Bullis, Lillian
 Eaton, Field
 Gearty, Harold J.
 Gibbons, Thomas
 Graham, Ruth
 Greeley, Julia
 Harling, Meriam
 Kriesel, Ralph
 McGrath, Walter
 Morrissey, Henry

Mulvahill, Marie
 Mumm, John
 Newhouse, Edwin
 Olson, Clarence
 Peterson, Cal
 Reid, Robert
 Reuel, Watts
 Reynolds, Janet
 Reynolds, Robert
 Salisbury, Griffith
 Strand, Gertrude
 Watson, Ernest
 Wells, Wilson
 Wold, Melford

SOPHOMORES—24

Anderson, Evelyn
 Bjornstad, Eugene G.
 Briggs, Ralph
 Ellertson, Selmer
 Flannagan, Samuel
 Forsyth, Melvina
 Gray, Earle
 Kalmen, Mable
 Knutson, Edith
 Kraus, Phyllis
 Larson, Naomi
 Lindstedt, Philip

MacLennan, Charles
 Martinson, A. Emanuel
 Miller, Kenneth
 Nichols, Ora
 Podany, George
 Rerat, Eugene
 Schmid, Willard
 Turner, Percy
 Vye, Warren
 Waite, Alice S.
 Wasielewski, Rose
 White, Richard

FRESHMEN—58

Aagaard, Russell
 Aldrich, Kenneth
 Anderson, Clifford
 Baldwin, Helen
 Berge, Arthur
 Bevans, Fred R.
 Borreson, Lillian
 Bowen, Dorothy
 Burgess, Arthur L.
 Cisarsky, Gertrude
 Coffman, William
 Colgrove, Francis
 Cooper, Joseph
 Cowdery, Lydia
 Durand, Dana
 Eaton, John J.
 Elg, Fred A.
 Ericksen, Theodore
 Ferguson, Terzah
 Giles, Raymond
 Haggerty, Helen
 Hall, Katherine
 Halverson, Laurence
 Hare, Horace

Hirschman, Joy
 Hortvit, Louise
 Howard, Marion J.
 Howard, Wells
 Jackson, Helen
 Jaynes, Melfred
 Jaynes, Mildred
 Johnston, Norris
 Kaercher, Margaret
 Kuchne, Gladys
 Lindstedt, George A.
 Miller, Hugo
 Moulton, Frank
 Nelson, Emory
 Nelson, Leona
 Parasius, R. L.
 Pierce, Agnes
 Raymond, Will
 Rerat, George
 Robinson, Marguerite
 Rosen, Donna
 Skinner, Helen
 Stevens, Stewart D.
 Stockdale, Robert E.

Vance, Frances S.
 Vaubel, Marjorie
 Vye, Lloyd
 Waite, Champlin C.
 Waters, Vera

Weireter, Leonard
 Weiskopf, Wilma
 White, Elizabeth
 Wilde, Lois
 Williams, Henry

THE CENTRAL SCHOOL OF AGRICULTURE

SENIORS—214

Aaker, Nels Adolph L., Kenyon	Francis, Gene K., Vernon Center
Aakre, Hilma, Hayfield	Frans, Myrtle, Harris
Anderson, Agnes S., Forreston	Furnholm, Roar G., Minneapolis
Anderson, Albin W., Clarkfield	Geppert, Elmer C., Millville
Anderson, Almer B., Red Wing	Goplen, Ben S., Motley
Anderson, Carl R., Pelican Rapids	Goplen, Edwin, Zumbrota
Anderson, Elmo W., Belgrade	Gordon, Cornelia, St. Paul
Barnard, Paul W., Minneapolis	Gothmann, Louis, St. Bonifacius
Baumann, Rudolph J., Jasper	Gross, Alta M., Lamoille
Belden, Allan B., St. Paul Park	Grove, Walter R., Elkhorn, Wis.
Berggren, Chester Le R., Hopkins	Gustafson, Chester O., Lafayette
Blair, Millard F., Winona	Hadley, Edgar A., Champlin
Blomquist, Blenda U., Minneapolis	Hagberg, Arthur, Jr., Brainerd
Borene, Florence B., Newport	Hall, Earle F., Rio, Wis.
Boxrud, Floyd, Madison	Hammargren, Frances L., Harris
Braun, L. Lucile, Kellogg	Hansen, Elmer, Faribault
Brinkman, John A., Zumbrota	Hartman, Horace W., Winnebago
Brown, Cornie M., St. Paul	Harvey, Donald U., Eagle Lake
Brown, Robert M., Goodhue	Haselhorst, Hugo B., Pequot
Calkins, William H., Granada	Haugstul, Tilford B., Kenyon
Carlson, Earl D., Minneapolis	Haussner, Margaret W., White Bear
Carlson, Joseph A., Wheaton	Hawkins, Horatio L., Rogers
Carlson, Olga V., Princeton	Hawkins, Martha, Rogers
Casady, Alexander B., St. Paul	Head, Rhea M., Albert Lea
Caylor, Ruth A., Litchfield	Henderson, Richard, Nisswa
Chamberlain, Leo W., Laurel	Hendrickson, Daisy, Mahtomedi
Charles, Graham C., Hancock	Henning, Roy N., Chicago, Ill.
Christgau, Arthur E., Austin	Henrikson, Henry, Kimball
Christgau, Victor A., Austin	Hermanson, Hilmer E., Taconite
Clark, Eleanor, Cedar	Hesse, Gerhard, Hartley, Iowa
Clow, Margaret A., St. Paul	Hesse, Will, Hartley, Iowa
Cox, Francis L., Alexandria	Hill, Albert F., Winnebago
Cummings, Ward E., Winnebago	Hinrichs, Arnold F. J., Red Wing
Cunningham, Edward P., Pipestone	Hokanson, Clarence, Winthrop
Cunningham, Olive S., Pipestone	Hoversten, Anna S., Jewell, Iowa
Daggit, Edmund M., Chippewa Falls, Wis.	Hunt, Viola A., St. Cloud
Dahlstrom, Carl A., Minneapolis	Ingalls, Boyd, Newport
Dahlstrom, Oscar G., Minneapolis	Jackson, Charles C., Tenstrike
Dalager, Alice, Glenwood	Jackson, Florence, St. Paul
Doty, Walter H., Eyota	Jacobson, Olive V., Ormsby
Dowdle, John R., Savage	Jeans, W. Raymond, Withrow
Elliott, Lucelia G., St. Paul	Jensen, Milton, Two Harbors
Ellison, Kenneth, Minneapolis	Johnson, Alfred L., Sparta, Wis.
Engstrom, Reuben L., Grandy	Johnson, Anna S., Milltown
Erickson, Willie B., Red Wing	Johnson, Axel B., Russell
Exstrand, Victor R., North Branch	Johnson, Ellen, Wadena
Fauhl, May L., Nebish	Johnson, Leonard L., Elbow Lake
Ferguson, Paul L., Minneapolis	Jones, Gaylord W., Black River Falls, Wis.
Foss, Oscar E., Pelican Rapids	

Kaercher, Gladys D., Minneapolis
 Kaerwer, Charles H., St. Cloud
 Kellerhals, James, St. Paul
 Kidder, Merle W., Minneapolis
 Kimball, George A., Cass Lake
 Kirsch, Roscoe, Walnut Grove
 Koch, Armin, St. Paul
 Kofstad, Arthur O., New Richland
 Larson, Carl M., Frederic, Wis.
 Larson, Elenora C., North Branch
 Larson, Fred W., Amboy
 Larson, Myrtle J., Nelson
 Lee, Hilma A., Glenwood
 Lewis, Flossie I., Lewisville
 Lind, Ernest H., Winthrop
 Linquist, Carl W., Minnetonka
 Lips, Howard C., Kenyon
 Lund, Julia, Boyd
 Lundberg, R., Osceola
 Lundeen, Emeline L., Chisago City
 Lundgren, Ella V., Gibbon
 McWilliam, Adam J., St. Paul
 Marple, Max DeW., Wendell
 Mars, Eva M., Newport
 Mattson, Emil F., New York Mills
 Miller, Carl, Marshall
 Miller, Elbert W., Anoka
 Miller, Hans R., Fergus Falls
 Miller, Harry M., Osseo
 Moede, Edwin G., Marshall
 Molstad, William J., Brainerd
 Moreen, Marjorie E., Minneapolis
 Morley, Joseph M., Red Wood Falls
 Morrison, Mertice W., Minneapolis
 Morrison, Roy C., Copas
 Musser, Clair W., Fairmont
 Nelson, Clarence E., Welch
 Nelson, Kenneth H., New Brighton
 Nelson, Lincoln W., Newport
 Nelson, Nels A., Minneapolis
 Nesbitt, William H., Duluth
 Newmann, Jessie N., St. Paul
 Nichols, C. Harold, Minneapolis
 Nicholson, Robert M., Lynd
 Nystrom, Paul A., Minneapolis
 Odegaard, Clarence P., Kenyon
 Olsen, Mathilda, Ormsby
 Olson, Otto S., Westby
 Oman, Milton C., Grandy
 Osnes, Laurence E., Minneapolis
 Ostrem, Henry J., Lanesboro
 Palmer, Agnes I., Minneapolis
 Patterson, Gretchen, Hugo
 Paulson, Mollie, Minneapolis
 Pearson, May, Red Wing
 Pederson, Archie, Farmington
 Perkins, Charles E., St. Paul
 Perry, Fairfield W., Felton
 Peterson, Charles H., Stillwater
 Peterson, Paul J., St. Paul
 Pierce, Stella L., Butler
 Poole, William H., Truman
 Porter, Andrew R., Center City
 Potter, Edwin J., Triumph
 Poulsen, Alfred, Redwood Falls
 Pryor, Cora Mae, St. Paul
 Qualley, Clara J., Hills
 Qualley, Elmer G., Hills
 Reynolds, Frank C., Austin
 Ridler, Alice, St. Paul
 Rieke, Lillian M., Gibbon
 Roberts, Lyle E., Newport
 Rognley, Amanda R., Hills
 Rortvedt, Arthur O., Hills
 Roti, Eddie N., Cottonwood
 Rovang, Joseph, Dalton
 Russell, Benedict A., Anoka
 Salinger, Walter J. F., St. Paul
 Saussele, Leslie R., Osseo
 Sawyer, Kendrick P., Owatonna
 Sayers, Gertie E., Lakeville
 Scharberg, Mabel, Hayfield
 Secrest, Henry M., Madelia
 Sederberg, Alma, Branch
 Setzler, Myrtle J., Anoka
 Sharp, Clarence, St. Paul
 Sheldon, Marshall, Little Falls
 Siemer, William L., Dundas
 Skiove, Berton M., Dalton
 Spong, George E., Farmington
 Spong, Paul H., Marshall
 Stevermer, Leo A., Easton
 Swanson, Albert G., Afton
 Swanson, Edward J., Stillwater
 Swenson, Edna S. E., Gaylord
 Taylor, Horace J., Faribault
 Thomas, William W., Minneapolis
 Thompson, Grace E., Osseo
 Thorndson, Tildon P., Janska
 Thorndyke, William K., Edgerton
 Thronson, Clara O., Hayfield
 Torgerson, Leonora C., Dalton
 Trussell, John W., Anoka
 Tysseling, Wilbur L., Elkton
 Utley, Lyle, St. Paul
 Van Valkenburgh, Leon, Osakis
 Vaux, Harold O., Faribault
 Volden, Nels, Madison
 Voxland, Earl A., Kenyon
 Weise, Stanley A., Wells
 Wetherby, Alexander, Minneapolis
 White, Ora A., Minneiska
 Williamson, William T., Zumbrota
 Wilson, Grace J., Pipestone
 Wolf, Herbert E., Hector
 Zechlin, Frederick, Minneapolis
 Zimmer, Carl Lewis, Nemadji

JUNIORS—173

Aasland, John E., Minneapolis
 Abraham, Carl W., Lindstrom
 Amundson, Oscar F., Hanska
 Anderson, Floyd G., Stillwater
 Anderson, George E., New York Mills
 Anderson, John A., Canby
 Anderson, Mauritz E., Winthrop
 Anderson, Stanley A., Elizabeth, N. J.
 Austvold, Berthin N., Glenwood
 Austvold, Johnnie N., Glenwood
 Bell, Bonnie A., Litchfield
 Bendixen, Helen M., Morgan
 Benson, Victor L., Minneapolis
 Berger, John J., Le Sueur
 Bergquist, Clarence W., Chisago City
 Bernard, Olive L., Chatfield
 Bertilsen, Ben O., Butterfield
 Blackmore, Marion, St. Paul
 Blessley, Vera N., Minneapolis
 Branley, Edward J., Litchfield
 Braun, Ralph W., Kellogg
 Bren, Emily, Hopkins
 Brinshall, Marion M., St. Paul
 Carlson, Mary H., Aitkin
 Carper, Esther M., St. Paul
 Cheney, Fannie P., Pipestone
 Clark, Kenneth W., Hopkins
 Clevenger, Lynn, Backus
 Conzemius, George H., Hastings
 Cooper, Hazel M., Minneapolis
 Coulter, Clarence J., Mallory
 Crandall, Lloyd C., Randolph
 Dalager, Herman S., Glenwood
 Dalldorf, Elmer, St. Paul
 Dewey, Ira T., Campbell
 Dryer, Olivia L., Minneapolis
 Dunning, Millard, Anoka
 Ekelund, Conrad M., Hopkins
 Erickson, Sigval M., Duluth
 Evans, Edward J., Montevideo
 Fabian, Walter F., Campbell
 Fairley, Everett F., Minneapolis
 Fox, Eva F., Stanton
 Francis, Gertrude O., Minneapolis
 Frydenlund, Emil A., Madelia
 Frydenlund, Hannah G., Madelia
 Gausman, Elmer O., St. Paul
 Gillespie, Hugh S., Minneapolis
 Gothmann, August M., Bonifacius
 Grande, Norman O., Cottonwood
 Grebin, Clarence, Preston
 Gugisberg, Hazel A., Gibbon
 Hall, Howard G., Minneapolis
 Hanson, Harry C., St. Peter
 Hanson, Nels M., Manitowoc, Wis.
 Hanson, Oscar C., Broton
 Hanson, Pearl L., St. Peter
 Harkness, John C. A., St. Paul
 Harris, Deane, Witoka
 Hatlestad, Harold, Cottonwood
 Helland, Chester J., Glenwood
 Hensel, Emily S., New Ulm
 Hermstad, Oscar, Luck, Wis.
 Herrman, Hazel J., New Brighton
 Hilke, Arnold, Altura
 Hill, Beryl E., Eden Prairie
 Hinrichs, Erwin R., Red Wing
 Hoel, Alf, Iola, Wis.
 Holland, Selmer, Minneapolis
 Holland, Storker, Northfield
 Hollo, Raymond M., Marshall
 Holten, Edwin L., Glenwood
 Houle, Orena M., Forest Lake
 Hovde, Elmer C., St. James
 Hume, James B., Superior, Wis.
 Iverson, Carl O., Broton
 Jacobson, Gustav O., Bricelyn
 Johnson, Charlie F., St. Louis Park
 Johnson, Henry O., Odin
 Johnson, Hjalmar E., Osseo
 Johnson, Irvin O., Albert Lea
 Johnson, John R. L., Lindstrom
 Johnson, Olga, St. Paul
 Johnson, Roy E., Brandon
 Johnson, Rudolf G., Minneapolis
 Johnston, Georgiana, Windom
 Johnston, Ruth H., St. Paul
 Jones, Marian E., Minneapolis
 Kaye, Bernice C., St. Paul
 Kernmott, Roger, Hudson, Wis.
 Landgreen, Garrett, McKinley
 Larsen, Earl, Minneapolis
 Larson, Harold P., Minnetonka Beach
 Lee, Audrey M., Cedar
 Lee, Lois, Cedar
 Lindall, Geneva I. E., Parkers Prairie
 Lorntson, Arthur O., Beaver Bay
 Luger, Rennold J., North St. Paul
 Lundell, Stanley, Minneapolis
 Lundgren, Albert E., Gibbon
 Lundquist, Raymond F., Winthrop
 McGill, Robert F., Minneapolis
 McGowan, Robert H., Wabasha
 McKenna, Francis V., Lonsdale
 McKillop, Archibald H., St. Paul
 Madsen, Ingvard B., Tyler
 Malquist, Sylvia I., Bird Island
 Mann, Ira B., Annandale
 Martin, Howard C. M., Madelia
 Martin, Willard A., Madelia
 Meincke, Henry, Lake City
 Mergens, Melvin T., Weyburn
 Merow, Wayne F., Cataract, Wis.
 Miller, Charles M., Prosper
 Mjller, Mollie A., Osseo
 Moen, Gustav W., Glenwood

Morlan, Marion M., Minneapolis
 Morton, Edwin J., Minneapolis
 Morton, Harry, Minneapolis
 Munson, Ernest G., Cokato
 Murnane, James E., Litchfield
 Nelson, Lloyd I., Cottonwood
 Nordin, Oscar F., St. Paul
 O'Neil, Reynold S., Windom
 Olson, Amora J., Winthrop
 Olson, Ida J., Sturgeon Lake
 Olson, Olive H., Gibbon
 Osterberg, Myrtle V., Minneapolis
 Palleson, Emerson R., Fulda
 Palmer, Elmer A., Nelson
 Pentz, George A., Jr., Minneapolis
 Pohl, Loren F., Tobique
 Poulsen, William L., Redwood Falls
 Reese, Elmer A., Minnesota
 Robinson, Euphie M., Baker, Mont.
 Rucktaeschel, Katherine M. J., Seaforth,
 Mont.
 Rudesill, Andrew S., Baldwin, Wis.
 Rudie, John A., Holdingford
 Sayers, Ethel P., Lakeville
 Schrader, Ernest E., Dundas
 Shore, Arthur W., Rushmore
 Shore, Wilbur E., Rushmore
 Sliter, Robert H., Grey Eagle
 Smith, Herbert L., St. Paul
 Smith, Ralph, Stillwater
 Soma, Irene J., Ormsby
 Spangenberg, Albert J., St. Paul
 Sparks, Eula G., Baker
 Spears, Herbert, Northfield
 Spencer, Lyle E., Minneapolis
 Spencer, Mary E. L., America, Okla.
 Sprenger, Anna M., Zumbro Falls
 Stafford, Arthur L., St. Paul
 Starch, Elmer A., West Concord
 Strom, Edythe, Minneapolis
 Strong, Philip C., Excelsior
 Swan, Madora E., Zumbrota
 Swanson, Agnes, Minneapolis
 Swenson, Henry W., Chicago City
 Taplin, Lawrence, Cedar
 Taylor, Isabell L., Minneapolis
 Thiede, Frieda J. C., St. Paul
 Thomson, Carmen A., St. Paul
 Troske, Erwin E., Wabasso
 Utz, Arnold I., St. Cloud
 Viger, Alfred, Dalton
 Visher, Harvey H., Forestburg
 Ward, Louis C., North Branch
 West, Helen R., Merriam Park
 White, Grace, Minneapolis
 Wills, Grace O., St. Paul
 Yeaple, Harold H., Mankato
 Zimmerman, Goldie, Osseo

FRESHMEN—236

Akermark, Ralph G., Ramsey
 Albers, Hattie M., Dundas
 Allen, Jay B., Winnebago
 Anderson, Adolph C., Ellendale
 Anderson, Arthur E., Two Harbors
 Anderson, Herbert R., Cologne
 Anderson, Lillian, Taylors Falls
 Anderson, Melvin R., Glenwood
 Anderson, Stanley O., Montevideo
 Anderson, William L., Minneapolis
 Anfinson, Arthur, Kenyon
 Arneson, Harold M., St. Paul
 Backer, Christina, New Ulm
 Bailey, Bernel H., Two Harbors
 Baker, George W., Janesville
 Bemis, Harold E., Long Prairie
 Bender, Lillian D., Waconia
 Berg, Carl A., Pelican Rapids
 Bergan, Napoleon, Dawson
 Berlin, Claus E., Gibbon
 Bjomstad, Ida, Underwood
 Blashfield, Alice M., St. Paul
 Blohm, Chester W., Lake City
 Blohm, Ralph H., Lake City
 Blohm, Walton F., Lake City
 Bluhm, William H., Biscay
 Boll, Peter A., St. Bonifacius
 Borg, Harry O., Mayer
 Borsheim, Peter M., Atwater
 Bradshaw, Joe R., Knowlton
 Brevick, George, Minneapolis
 Britgton, Engle, Emmons
 Brown, Carl H., St. Paul
 Brown, Harry, Hanley Falls
 Bruestle, Hallette C., Erhard
 Bull, Marjorie, Stacy
 Buross, Otis J., Rushford
 Campbell, Howard, Simpson
 Carlisle, Frederick W., Lake Benton
 Carlson, Guybert L., Red Wing
 Carper, Mary E., St. Paul
 Carroll, Joseph P., Minneapolis
 Christensen, Johannes, Askov
 Christensen, Oluf A., Paynesville
 Christgau, Walter J., Dexter
 Christian, Agnes, Frost
 Cleifton, Lorraine A., St. Paul
 Close, Frank M., Robbinsdale
 Coburn, James T., Terrace
 Colombe, Oscar, Little Falls
 Cook, Marguerite I., Osseo
 Daggitt, Ione R., Chippewa Falls
 Daggitt, Irene R., Chippewa Falls
 Dalager, Rosalie, Glenwood

- Da Pron, Ralph H., St. Paul
 Deters, George H., Eitzen
 Dickson, Kenneth, Victoria, B. C.,
 Canada
 Dittes, Katherine M., Beardsley
 Dixon, Bernard, Minneapolis
 Doris, Ruth A., St. Paul
 Doyle, Omer, Easton
 Eckerstrom, Marie K. S., Minneapolis
 Eidem, Leland, Anoka
 Engebretson, Guy, Waseca
 Engen, Lars, Clam Falls
 Engene, Manda S., Caledonia
 Engeseth, Russell, Nerstrand
 Enright, Ernest M., Rose Creek
 Erickson, Albert T., Grove City
 Erickson, Aaron F., Grove City
 Erlinger, Otto M., Elmer
 Feyereisen, Albert, Woodstock
 Flatin, Finley O., Spring Grove
 Foot, Jesse M., St. Paul
 Fourt, Leslie M., St. Paul Park
 Frans, Marie, Harris
 Franzen, John E., Milaca
 Frederickson, Christian, Hanska
 Frederickson, Marvin O., Hanska
 Frisby, George T., St. Charles
 Fruechte, Walter O., Eitzen
 Gable, Kenneth D., Minneapolis
 Gilbert, William L., Becker
 Gislason, Byron E., Minneota
 Glycer, Gilbert A., Forest Lake
 Green, Carroll M., Ruthton
 Gregerson, Victor, Luck, Wis.
 Gubrud, Ore G., Spring Grove
 Gustafson, Herbert, Lafayette
 Hammargren, Harry L., Harris
 Hansen, Secunda, Rockville
 Hargesheimer, Karl, Rochester
 Haug, Lauritz, Renville
 Hawkins, William, Rogers
 Hein, Josephine I., Hamel
 Heitmann, Mabel M., Lake City
 Henderson, David, Nisswa
 High, Hilding H., New Ulm
 Hillman, Harold B., St. Paul
 Hirst, Frederick J., St. Paul
 Hockley, William A., Horizon, Sask.,
 Canada
 Holmgren, Leroy E., Cambridge
 Homo, Henry E., Rogers
 Hopkins, Edward Le R., Hugo
 Hoyt, Arthur B., Fridley
 Hunt, Heartie E., St. Cloud
 Isaacson, Arthur E., Dassel
 Jacobson, Agnes, Story City, Iowa
 Jacobson, Grace O., Bowlus
 Jamieson, Floyd L., Dent
 Jeans, Harold A., Stillwater
 Jensen, Andrew, Stephen
 Jensen, Harry A., Emmons
 Jensen, Clarence B., Spring Grove
 Johnson, Abner, Strandquist
 Johnson, Alton M., Glenwood
 Johnson, George P., Sacred Heart
 Johnson, Ruth V., Alexandria
 Johnson, Willis N., Chester, Iowa
 Jung, David H., Buffalo Lake
 Karstad, Raymond C., Nicollet
 Klima, Annie M., Silver Lake
 Knott, Floyd, Spur
 Knott, Lloyd L., Spur
 Korfhage, Gilbert, South St. Paul
 Korthauer, August J., Verdi
 Lager, Agnet I., Winthrop
 LaMont, Ada L., Lake City
 Larson, Frank H., St. Paul
 Larson, Melvin K., Ellendale
 Lee, Oliver G., Hanska
 Lemon, Walter G., Harris
 Lewis, Clyde R., Lewisville
 Leyh, Walter W., Bertha
 Lilleskov, Oscar J., Stanton
 Lovdahl, Theodore E., Crosby
 Luehr, Ella, Caledonia
 Luehr, Franklin W., Caledonia
 Lukason, Axel R., Harwick
 Lund, Eddie, Lafayette
 Lundberg, Hilda C., Winthrop
 Lundeen, Nels L., Orr
 Lyons, Ruth D., Minneapolis
 McConnell, Lloyd E., Eden Prairie
 Maas, Walter, St. Bonifacius
 Maland, Henry M., Frost
 Malquist, George G., Bird Island
 Mattson, Emil A., Kensington
 May, Maynard, White Bear
 Meyer, Seremus J., Lake City
 Miner, Gladys I., Minneapolis
 Miner, Percy E., St. Paul
 Molenaar, Kate, Raymond
 Monroe, Lloyd E., Winthrop
 Moody, Lawrence, Chisago City
 Muir, Emma I., St. Paul
 Munkholm, Louise N., St. Paul
 Munson, Carl M., Lewisville
 Myers, Hymen, Minneapolis
 Nankivell, Hellman S., St. Paul
 Nelson, Dwight L., Midale, Sask.,
 Canada
 Nelson, Earl L., Glenville
 Nelson, Ernest, Houston
 Nelson, Melvin, Boyd
 Neseth, Thomas B., Nerstrand
 Newhouse, Olive M., Spring Grove
 Niles, Charles A., St. Paul
 Odson, Leroy, Story City, Iowa
 Oehlke, Clarence P., Newport
 Olafson, Milton, Ross
 Olson, Esther J., Grandy

Olson, Fred, Turtle Lake, Wis.
 Olson, Hildur C., Cambridge
 Olson, Leonard H., Walnut Grove
 Olson, Nuel L., Cottonwood
 Olson, Victor W., Litchfield
 Osborne, Alphonsus J., St. Peter
 Osborne, Lee J., St. Peter
 Palm, C. Archie, Princeton
 Pentz, Adelbert P., Minneapolis
 Peterson, August T., Chisago City
 Petranek, Edward A., Danvers
 Potthoff, Arthur C., St. Paul
 Pouliot, Edward P., Minneapolis
 Poulsen, Lillian, Redwood Falls
 Price, Allan, Lamberton
 Radermacher, Anthony F., Elko
 Rank, Ralph, Nerstrand
 Rehder, Carl E., Stillwater
 Richter, William W., Montgomery
 Ruble, Andrew L., Robinsdale
 Rude, Albert H., Sacred Heart
 Sanness, Olga, Caledonia
 Sausele, William F., Danube
 Scheer, Charles W., Fergus Falls
 Scherer, Joseph J., St. Joseph
 Seath, Clarence, Hartland
 Seldén, John H., Minneapolis
 Shea, Martha, Story City, Iowa
 Smith, Joe J., Minneapolis
 Solem, Otto P., Thief River Falls
 Sommers, Verna O., Northfield
 Soukup, Fred J., Bird Island
 Steele, Harold W., Kimball
 Steele, Walter, Albert Lea
 Strand, Allan, St. Peter
 Suttles, Theodore P., Dundas
 Swanson, Roy W., St. Peter
 Swenson, John M., Harris
 Tamble, Alfred J., St. Paul
 Taylor, Milton B., Outing
 Teig, Rudolf E., Truman
 Theisen, Peter M., St. Joseph
 Torgerson, Mary L., Dalton
 Tubbs, Dewey W. C., Marshall
 Turnacliff, Vera G., Waseca
 Turner, George A., St. Paul
 Underdahl, Samuel P., Nerstrand
 Vikesland, E., Elbow Lake
 Voehl, Albert H., Lakefield
 Voxland, Melvin J., Kenyon
 Voxland, Roy L., Kenyon
 Wagner, Lorina M., Seaforth
 Ward, Myron M., Mapleton
 Ward, Roy M., Osseo
 Weber, Dewey, Elkton, S. D.
 Weber, Emil, Elkton, S. D.
 Wehrend, William R., Princeton
 Welch, Clarence K., St. Paul
 West, Ruth A., St. Paul
 Westberg, Fred T., Stillwater
 White, Essie M., Minneapolis
 Wiebke, Roy F., Caledonia
 Will, Catherine M., St. Paul
 Winter, Howard J., Deer Creek
 Youngquist, Ralph, Marine Mills

UNCLASSIFIED STUDENTS—66

Anderson, Frans O., Isanti
 Anderson, Irving S., Franklin
 Anderson, Roy E., Russell
 Appelquist, James W., Fullerton, N. D.
 Barr, Clarence, St. Cloud
 Barsness, E. Sydney, Glenwood
 Brace, George W., Backus
 Burgstahler, Clark O., Buffalo Lake
 Burke, Harry, Clarkfield
 Cates, Carroll H., Kimball
 Caulfield, Erwin McD., Byron
 Clausen, Rasmus V., Milroy
 Cowell, Lynda A., Creswell, Ore.
 Culligan, E. J.
 Ellefson, Henry A., Jackson
 Feder, John A. W., Madelia
 Fetsch, Claude S., St. Paul
 Forsell, Arthur, Goodhue
 Franks, George R., Viceroy, Sask.,
 Canada.
 Franks, Loren C., Viceroy, Sask.,
 Canada.
 Froemming, Alfred L., Hutchinson
 Garry, Clarence, Cottonwood
 Gotzian, Conrad, Thompson Falls,
 Mont.
 Gullickson, Arthur N., Cushing, Wis.
 Gustafson, Anna, Houston
 Halvorson, Theodore B., Glenwood
 Hanson, Hjalmer G., Wolverton
 Hanson, Oscar, Hanley Falls
 Hendrickson, O. O., Halley, Alta.,
 Canada
 Huntsinger, John A., Oronoco
 Isaacson, Arthur L., Minneapolis
 Iverson, Torval S., Hazel
 Jensen, R. C., Arco
 Johansen, Christian, Tyler
 Johansen, Frederik O., Tyler
 Johnson, Ernest J., Winthrop
 Jones, Joseph E., Luverne
 Juhl, Jacob, Minneapolis
 Knips, Roland, Lismore
 Larson, Lawrence, Butterfield
 Long, Dalton D., Hugo
 Malberg, Egbert I., Thief River Falls

Melgard, E. Norman, Rushford
 Millar, Hugh E., Winona
 Nelson, Alfred, Claire City, S. D.
 Newmann, Adolph, St. Paul
 Niles, J. B., St. Paul
 Nilsen, Ole M., Paynesville
 Olson, Mentzer A., Lindstrom
 Osenga, Allie, Minneapolis
 Pesek, Cyril M., St. Paul
 Peterson, Alfred F., Frost
 Poston, Claude, Cass Lake
 Reishus, Orville K., Cottonwood
 Robertson, Earl M., Osceola, Wis.

Schultz, Rudolph, Goodhue
 Schwartzau, George F., Red Wing
 Skjeveland, Thebert, Hanley Falls
 Solberg, Andrew, Herbert
 Stoen, Oscar, Blue Earth
 Taylor, Fred J., Benbough, Sask.,
 Canada
 Tenold, Clarence, Blue Earth
 Thompkins, Daniel D., Byron
 Torgerson, Ada E., Dalton
 Widdowson, Harold T., Minneapolis
 Zaczkowski, Ottmar, Roscoe

Normal Training Course—12

Calkins, Susan, Granada
 Carlson, Hulda, Brookfield
 Foresman, Alice, St. Paul
 Geselins, Vera, Cambridge
 Goss, Martha, Cass Lake
 Hultkranz, Evelyn, St. Paul

Johnson, Ethel, Windom
 Lee, Jennie, Waseca
 Metalak, Kate, Brownton
 Olson, Hazel, Minneapolis
 Piltz, Arnes, Waconia
 Schmidt, Frieda, Hugo

Dairy School, 1917

UNIVERSITY FARM

BUTTER AND CHEESE MAKERS' COURSE—77

Abeln, Henry J., Richmond
 Albers, Frank, Richmond
 Alley, A. W., St. Paul
 Anderson, Newell, Moose Lake
 Bates, Benneville W., Emmons
 Bethke, E. J., Waseca
 Beyer, J., Easton
 Bjerva, Nels J., Dennison
 Blecker, Warren, Robbinsdale
 Brandt, Clarence H., Carlos
 Bullman, F. S., Blooming Prairie
 Bygd, Helmer, Boyceville, Wis.
 Chatelle, Arthur L., Aitkin
 Darrell, Volney W., Chatfield
 Dummer, Theodore, New Germany
 Emcott, Edward, St. Paul
 Fleisch, Reinhol, Alexandria
 Folie, Harvey L., Albert Lea
 Fonfara, Albert, Delano
 Fredrickson, E., Finn
 Gaulke, Frank, St. Michael
 Gay, George E., Westboro, Wis.
 Green, George H., Clear Lake, Wis.
 Gregerson, George, Prairie Farm, Wis.
 Grindy, Bennie, Westport
 Grutsch, Carl V., Avon
 Gudvaugen, Andrew, Hanlontown, Iowa
 Hanan, Lawrence L., Mondovi, Wis.
 Hansen, Harry, Luck, Wis.
 Hanson, Geoffrey, Bowlus

Hauge, Selmer L., St. Hilaire
 Hegge, Clarence, Grantsburg, Wis.
 Hill, Arthur, Floodwood
 Hinz, John, Osceola, Wis.
 Holtberg, Willie W., Belgrade
 Hongslo, Peder, Minneapolis
 Jaus, Martin A., Gibbon
 Jensen, George C., Underwood
 Johnson, Bernhard, Cokato
 Johnson, John, Biscay
 Klund, James, Cameron, Wis.
 Kvale, Oliver, Emmons
 Larsen, John T., Wilmont
 Larsen, Otto C., Benson
 Leffler, John, North Branch
 Lehne, Kuno E., Springfield
 Lilly, Fred J., Princeton
 Lindstrom, Erhard W., Grandy
 Lund, Harry, Atwater
 Madsen, Louis L., Buffalo Lake
 Menzhuber, Wenzel, Mahnomen
 Mikkalson, Mike, Kiester
 Nelson, Carl A., Cokato
 Olson, Morton C., Little Falls
 Olson, Reuben F., Northfield
 Orner, Edwin M., Deronda, Wis.
 Riedell, Gustave, Barron, Wis.
 Rogers, L. Verne, Mora
 Roppe, Arthur, Crookston
 Rouse, Chester W., Ceylon

Sandahl, Arthur, Burtrum
 Sandberg, Arthur W., Lindstrom
 Schons, Peter M., Mankato
 Selstad, Einar, Thief River Falls
 Seyforth, Lyman H., Mondovi, Wis.
 Sorensen, Hans E., Little Falls
 Stucky, John H., Pine Island
 Vakoc, Jerry E., Verdigre, Neb.
 Venske, Theodore, New Germany

Voss, John, Pratt
 Wagner, Fred J., Lemmon, S. D.
 Wensman, Herman, Freeport
 Wilde, Arthur A., Chisago City
 Will, Earnest, Barnum
 Worm, Frank, Chaska
 Wright, E. J., Watertown
 Yennie, Henry, West Concord

ICE CREAM MAKERS' COURSE—27

Althouse, Victor P., Montevideo
 Anderson, C. O., Wabasha
 Dugan, Joe C., Lime Springs, Iowa
 Dummer, Theodore, New Germany
 Eiter, Raymond, Breckenridge
 Gutzler, J. A., Park Rapids
 Hansen, Harry, Luck, Wis.
 Hanson, Geoffry, Bowlus
 Hauge, Selmer, St. Hilaire
 Hill, Arthur E., Floodwood
 Honglo, Peder, Minneapolis
 Johnson, John, Albert Lea
 Klund, James, Cameron, Wis.
 Larsen, John T., Wilmont

Larsen, Otto C., Benson
 Lehne, Kuno E., Springfield
 Olson, Michael, LaCrosse, Wis.
 Peterson, G. C., Northome
 Rogers, L. Verne, Mora
 Rouse, C. W., Ceylon
 Sandahl, Arthur, Burtrum
 Selstad, Einar, Thief River Falls
 Sorenson, H. E., Little Falls
 Vakoc, J. E., Verdigre, Neb.
 Voss, John, Albany
 Welch, Daniel, Chatfield
 Worm, Frank P., Chaska

Farmers' and Home Makers' Week—1,631

Aal, Ingolf, Starbuck
 Aarestad, T., Sacred Heart
 Aase, E. E., Minneapolis
 Aase, Elling J., Minneapolis
 Abrahamson, P., Lanesboro
 Ackerson, C. Walter, Elbow Lake
 Adams, Floyd R., Owatonna
 Adams, W. R., Mankato
 Adelmann, J. C., Minneapolis
 Adelmann, Nick, Minneapolis
 Agrey, L. L., Goodhue
 Ahlthfathen, George F., Austin
 Albrecht, Gust, Fairfax
 Alden, Andrew, Frederic, Wis.
 Alderman, Mrs. N. F., Brook Park
 Alderman, N. F., Brook Park
 Allan, Viola, Council Grove, Kan.
 Alm, Mrs. O. E., Minneapolis
 Almlia, Ludurg, Bricelyn
 Altermatt, Emil, Springfield
 Altmeyer, M. W., St. Paul
 Alwin, E. F., Sleepy Eye
 Amley, Martin, Ellendale
 Amley, Oscar, New Richland
 Andersen, A. C., Tyler
 Andersen, Alfred C., Cushing
 Anderson, A. D., Glenwood
 Anderson, Alfred, Little Falls
 Anderson, Alfred B., Alexander

Anderson, Andrew, Elk Mound, Wis.
 Anderson, Anna E., Cedar
 Anderson, B. J., Sioux Pass, Mont.
 Anderson, Carl, Audubon
 Anderson, Clifford, Watson
 Anderson, David, Isanti
 Anderson, E. S., Mankato
 Anderson, Edwin, Foreston
 Anderson, Edwin, Fergus Falls
 Anderson, Eleanor, Minneapolis
 Anderson, F. O., Isanti
 Anderson, Fred W., Dassel
 Anderson, G. M., Granite Falls
 Anderson, H. W., Starbuck
 Anderson, Mrs. H. W., Starbuck
 Anderson, I. F., Roundup, Mont.
 Anderson, Mrs. I. F., Roundup, Mont.
 Anderson, J. A., Frederic, Wis.
 Anderson, J. M., Frederic, Wis.
 Anderson, John, Audubon
 Anderson, Martin, Isanti
 Anderson, Merrill, Skyberg
 Anderson, Nels P., Eden Prairie
 Anderson, O. E., Blue Earth
 Anderson, Peter A., Dassel
 Anderson, Richard, Northfield
 Anderson, Russel, Eden Prairie
 Anderson, S. P., Dassel
 Anderson, Selmer, Roundup, Mont.

- Anderson, William, Minneapolis
 Andross, Mrs. George L., Granada
 Anstrom, Helen, Minneapolis
 Arens, Henry, Jordan
 Arnold, C. L., Watkins
 Ash, L. W., Roberts, Wis.
 Ashby, Mrs. R. C., St. Paul
 Asp, Arthur, Milaca
 Asquith, Ralph, Windom
 Atherton, Mrs. Isabel, Newport
 Ayers, E. D., Pine City
 Backus, N. B., Bemidji
 Bahr, George E., Morristown
 Bailey, Mrs. F. D., Prescott, Wis.
 Bailey, F. D., Prescott, Wis.
 Bailey, Vincent, St. Paul
 Bailiff, E. A., Minneapolis
 Baldwin, H. J., Northfield
 Baldwin, Harris T., St. Louis Park
 Baldwin, Mrs. R. H., St. Paul
 Ball, F. C., Minneapolis
 Ballinger, Earl, Spring Valley
 Ballmes, George, Deer Creek
 Bardal, Einar, Starbuck
 Barnard, A. H., Crystal Bay
 Barnes, C. A., Minneapolis
 Barnett, J. C., Kilkenny
 Barrett, Herbert, Ft. Atkinson, Wis.
 Barrett, James, South St. Paul
 Bartlett, D. G., Randolph
 Bartlett, Mrs. D. G., Randolph
 Bartlett, J. F., Excelsior
 Bauer, F. H., Delano
 Bauernfeind, G. B., Nerstrand
 Baumgartner, Joe, Robbinsdale
 Beard, Mrs. Cora, Kasson
 Beard, F., Kasson
 Becker, Mrs. George, Hampton
 Beckstrom, Gunnard, Marine Mills
 Beckstrom, Ruth, St. Paul
 Becman, Mrs. W. L., St. Paul
 Bell, Burch N., Walnut Grove
 Bellquist, Elmer, Cologne
 Bement, Mrs. E. M., East Grand Forks
 Bement, E. P., East Grand Forks
 Beneke, Arthur, Hamburg
 Benjamin, A. C., Deer Creek
 Benjamin, Ben, Deer Creek
 Bennett, James, Plain View
 Bennett, L. K., Spring Valley
 Benson, F. E., North Branch
 Berg, Carl, Erskine
 Berger, C., Fairfax
 Berger, Otto, Gibbon
 Berglund, J. A., Milaca
 Bergquist, Paul, Cokato
 Bertness, Gustof, Madison
 Bieri, B., Mound
 Bies, Mrs. A., Robbinsdale
 Bies, Mrs. C., Robbinsdale
 Bjorkman, Charles J., Frederic, Wis.
 Bjorkman, Frank, Frederic, Wis.
 Bjorkman, Stanley, Frederic, Wis.
 Blackburn, J. R., Pine River
 Blackburn, Mrs. J. R., Pine River
 Blair, Millard, Winona
 Blair, William, Glenwood
 Blanchard, C. L., Sherburne
 Blesi, Fred P., Anoka
 Blossberg, O., Cambridge
 Blowers, M. A., St. Paul
 Bredchoft, Claus, Red Wing
 Bobendrier, J. H., Rogers
 Bode, W. C., Echo
 Boehl, Charles, Munger
 Boehl, Charles, Duluth
 Bolstad, S., Dawson
 Bonfig, John, Freeport
 Bonham, E. E., Park Rapids
 Booty, August, Mound
 Boraas, O. R., Dawson
 Borgschatz, W. J., Zumbrota
 Borss, J. L., Goodhue
 Borst, H. L., Minneapolis
 Boss, James, Zumbro Falls
 Boss, Mrs. James, Zumbro Falls
 Boss, Mrs. Andrew, St. Paul
 Botzet, Andrew, Minnesota City
 Boyce, W. I., Fairmont
 Boyce, Walter, Fairmont
 Boyle, Marie, Ulen
 Boynton, W. J., Rochester
 Boyum, B. O., Peterson
 Brant, W. O., Stillwater
 Brash, Alfred, Maple Plain
 Brash, Mabel, Maple Plain
 Braun, Joseph, St. Cloud
 Brenner, Alphonse, St. Paul
 Bretzke, Miss, St. Paul
 Briggs, George, Grantsburg, Wis.
 Briggs, George A., St. Peter
 Briggs, Henry R., St. Paul
 Brockway, W. V., LeSueur Center
 Brodersen, P. E., Minneapolis
 Brohaugh, W. E., Shelly
 Brooks, Charles, Mankato
 Brosious, E. J., Stillwater
 Brossard, E. B., Logan, Utah
 Brown, A. F., St. Paul
 Brown, Mrs. A. F., St. Paul
 Brown, C. E., Elk River
 Brown, Mrs. C. E., Elk River
 Brown, C. E., Crookston
 Brown, Cornie, St. Paul
 Brown, Fred, Cedar
 Brown, Mrs. Fred, Cedar
 Brown, G. W., Wilson, Wis.
 Brown, George, St. Paul
 Brown, Harry L., St. Paul
 Brown, J. L., Black Hall, Conn.

- Bruette, Harold, Marine Mills
 Brunkow, Frank L., Delano
 Brush, Earl, Amboy
 Brush, George, Owatonna
 Bugbee, George A., Carlton
 Bugbee, L. H., Carlton
 Bulan, A. F., Winthrop
 Bunge, Amanda, Eitzen
 Bunge, L. O., Eitzen
 Bunge, Martha, Eitzen
 Burgstahler, C. O., Buffalo Lake
 Burgstahler, L. D., Buffalo Lake
 Burnham, C. O., Stillwater
 Burrill, Ethel, St. Paul
 Burrill, Mrs. V. L., St. Paul
 Busch, Bernard, Robbinsdale
 Busch, Fred, Minneapolis
 Busse, Alfred, Slayton
 Busse, Arthur, Amboy
 Campbell, F. C., Park Rapids
 Campbell, L. A., Utica
 Caneday, Victor D., Taylors Falls
 Carlborg, Charles, Clinton
 Carlson, Alfred M., Minneapolis
 Carlson, E. D., Minneapolis
 Carlson, Edwin, Copas
 Carlson, John A., Buffalo Lake
 Carlson, V. H., Red Wing
 Carlson, Walfred, Minneapolis
 Carlstadt, Alfred, Dassel
 Carmichael, Robert, Farmington
 Carnes, J. N., Royaltan
 Carpenter, Harriet, St. Louis Park
 Carson, Paul, Lake Vadnais
 Case, Florence D., Charles City, Iowa
 Cashman, J. E., Owatonna
 Caspersau, John, Cushing
 Cederstrom, Arvid, Mayer
 Chamberlain, E. H., Hastings
 Chamberlain, Mrs. E. H., Hastings
 Chamberlain, Edith C., Hastings
 Chamberlain, Mrs. H. L., International Falls
 Chambers, George, Owatonna
 Chambers, Mrs. George, Owatonna
 Chandler, Mrs. A., St. Paul
 Chapel, Ray, Houston
 Chapman, J. E., St. Paul
 Chapman, Mrs. James, St. Paul
 Charleston, C. J., Brook Park
 Chell, Vitus T., Frederic, Wis.
 Chelson, Fred L., Cannon Falls
 Chennaux, H. A., St. Paul Park
 Child, C. S., Minneapolis
 Christensen, Alfred O., Luck, Wis.
 Christensen, Edd, South Haven
 Christensen, J. A., Westbrook
 Christensen, Jens, South Haven
 Christenson, N. E., Litchfield
 Christenson, Mrs. N. E., Litchfield
 Christgau, Mrs. A. W., St. Paul
 Christgau, Fred, Austin
 Christgau, John M., Dexter
 Christie, G. I., Lafayette, Ind.
 Christison, J. C., Medford
 Christopher, W. N., St. Paul
 Christopherson, Fred, Luck, Wis.
 Clark, Mrs. Kenneth K., St. Paul
 Clark, M. D., St. Paul
 Clarke, Harry, Kenbrae
 Clarke, Mrs. Harry, Kenbrae
 Clasen, Mrs. Florence, Maple Plain
 Clausen, O., St. Paul
 Cleland, Mrs. A. V., Minneapolis
 Coburn, John, Brook Park
 Coe, Maynard, St. Charles
 Cogglesheal, J. M., Mapleton
 Cogswell, Mrs. L. B., Farmington
 Cole, Benjamin, Canby
 Cole, Paul, Canby
 Collette, Allen D., Pine City
 Collin, Charles, St. Paul
 Comfort, H. M., Stillwater
 Connolly, Mrs. T. M., Minneapolis
 Connor, E. M., Excelsior
 Conway, John, St. Paul
 Conzemius, J. J., Hastings
 Conzemius, N. H., Hastings
 Cooper, H. C., Little Fork
 Coppenheffer, Garreldt, Gray Eagle
 Cornell, Edward, Watertown
 Cornell, John, Mayer
 Cornica, F. A., Faribault
 Cort, E. G., De Graff
 Cort, M. J., Minneapolis
 Cort, Mrs. Sarah, Minneapolis
 Corwin, W. J., Grand Rapids
 Coste, C. E., Rush City
 Coste, Mrs. C. E., Rush City
 Countryman, Mrs. M. L., St. Paul
 Craighead, A. N., Clear Lake
 Crain, E. A., Minneapolis
 Crandall, Bernard, Randolph
 Crandall, C. B., Randolph
 Crandall, Mrs. C. B., Randolph
 Crane, R. E., Grand Meadow
 Cray, Marguerite, Minneapolis
 Cruzen, Ralph, Frederic, Wis.
 Cummelin, George, Frederic, Wis.
 Cummings, T. F., St. Paul
 Cummings, Mrs. T. F., St. Paul
 Curley, William, Stillwater
 Curran, G. C., St. Paul
 Cutting, A. B., St. Paul
 Dabilstein, Glenn, Winona
 Daggit, A. W., Chippewa Falls, Wis.
 Dahlheimer, Frank, Anoka
 Dahlin, Albin R., Cokato
 Dahlin, Arthur, Silver Lake
 Dahlin, August, Luck, Wis.

- Dahlin, John H., Copas
 Dahrman, H. F., Sleepy Eye
 Dale, J. D., Minneapolis
 Daly, Mrs. E. E., Ralph, S. D.
 Dana, W. M., Minneapolis
 Dana, Mrs. W. M., Minneapolis
 Danielson, George A., Minneapolis
 Danielson, Mrs. George A., Minneapolis
 Danielson, J. S., Minneapolis
 Danniger, William, Comstock, Wis.
 Darmody, M. J., Owatonna
 Davey, H. I., Staples
 Davidson, Oscar, Annandale
 Davis, Mrs. May G., St. Paul
 Day, Esther, Pequot
 Day, John M., Lake Elmo
 Deebach, Elmer, St. Paul
 Deforth, Benjamin, St. Paul Park
 Densmore, Eda, Spring Valley
 Dewey, F. D., Comfrey
 Dewey, S. R., Monticello
 Dibble, E. A., Cannon Falls
 Dickinson, Sherman, Minneapolis
 Dickman, C. E., South St. Paul
 Dickman, Mrs. E. J., South St. Paul
 Dietrich, William, Crookston
 Dignan, J. A., Waverly
 Dike, George K., Northfield
 Dixon, Homer E., Perham
 Dobber, K., Minneapolis
 Doble, Mrs. E., St. Paul
 Doble, Mrs. H. G., St. Paul
 Dodds, Ralph, Spring Valley
 Dorland, W. H., St. Paul
 Dorn, Mrs. I. C., Robbinsdale
 Doughty, R. H., Milaca
 Drew, Mrs. J. M., St. Paul
 Dubeau, Adam, Faribault
 Dubeau, G. J., Faribault
 Duhamel, Martin, Alberta, Canada
 Dunberg, C. L. R., Turtle Lake, Wis.
 Dunn, Alexander, Cohasset
 Dunning, Frank, Anoka
 Dunshee, Mrs. George, Big Lake
 Durbahn, W. J., Angus
 Dye, Seabert, Bruno
 Early, Wallace, Luck, Wis.
 Eckdahl, D. A., Copas
 Eckstrom, John, Glenwood City, Wis.
 Eddy, O. J., Montevideo
 Edholm, Victor, Frederic, Wis.
 Edlund, M. C., Dassel
 Egan, John T., Broton
 Egan, William, Broton
 Eid, J. H., Montevideo
 Eidem, Stella, Litchfield
 Eidsino, Martin, Minneapolis
 Ekberg, F. A., Herman
 Ekelund, Ethel, Minnetonka Mills
 Ekelund, Richard, McGregor
 Eklof, Albert, Siren, Wis.
 Ellefson, Edmund, Cushing, Wis.
 Ellingson, E. L., Welch
 Ellison, F. H., Minneapolis
 Ellison, Kenneth, Minneapolis
 Ellison, Sabra M., Linden Hills Station
 Elwell, Georgia B., Minneapolis
 Elwell, Susie M., Minneapolis
 Engebretson, E. L., Slayton
 Engeswick, Anna, Lamberton
 Engholm, Andrew, St. Bonifacius
 Engholm, Victor, St. Bonifacius
 Engkvist, Mrs. Anna, Chaska
 Engle, W. S., Lewistown, Mont.
 Engquist, Oscar, Marine
 Erhardt, Harry, Hugo
 Erickson, Aaron, Grove City
 Erickson, Albert, Grove City
 Erickson, Dwight S., Goodhue
 Erickson, Edward, Red Wing
 Erickson, Edward T., Appleton
 Erickson, Emil, Grove City
 Erickson, Henry W., Montevideo
 Erickson, L. W., Minneapolis
 Erickson, Mrs. L. W., Minneapolis
 Erickson, Lillian, Starbuck
 Erickson, O. T., Grove City
 Erickson, Mrs. O. T., Grove City
 Erickson, O. W., Marine Mills
 Erickson, P. W., Perham
 Erickson, Peter G., Northfield
 Erikson, Jimmie, Luck, Wis.
 Erlandson, J. W., Plummer
 Ernst, Mrs. M. E., St. Paul
 Erwin, Stanley, Waseca
 Escher, S. C., Slayton
 Evans, Mrs. A. G., Minneapolis
 Evans, L. E., Plain View
 Fahrendorff, Harold, Milltown, Wis.
 Falkenhagen, Walter M., Montevideo
 Fallon, Cecil, Hutchinson
 Fanning, Mary G., White Bear
 Farmer, W. P., Airlie
 Farnham, Mrs. C. G., Minneapolis
 Farnham, Katherine, Minneapolis
 Farrar, F. O., White Bear
 Fauskee, Albert, Broton
 Fauskee, Milton, Broton
 Feder, Carl, Madelia
 Feder, John, Madelia
 Feehan, R. W., Pine River
 Fenstermacher, Nevin, Spring Valley
 Ferguson, G. A., St. Paul
 Ferguson, J. E., Canby
 Field, Danforth, Harmony
 Filk, Theodore, Biscay
 Finn, Miss D. A., Minneapolis
 Finseth, K. Olaus, Kenyon

- Finsted, L. E., Starbuck
 Firth, Charles V., Lewiston
 Fischer, Henry C., Lewis, Wis.
 Fisette, Ed., Rogers
 Fisher, E. E., Barnum
 Fisher, Fred, Warba
 Fisher, Luella, Minneapolis
 Fleckinstein, Edward, Faribault
 Fletcher, Clarence, Pine Island
 Flikkie, J. J., Shelly
 Flinn, George M., Medford
 Flodin, Axel, Frederic, Wis.
 Flygare, F. O., Dunnell
 Fobes, Frank, Minneapolis
 Foote, F. W., Red Wing
 Forsberg, John A., Fleming Lake
 Forst, L. E., Red Wing
 Foslien, Lewis, Alexandria
 Foss, Elizabeth H., Minneapolis
 Foster, John L., Foley
 Fowlds, Matthew, Arco
 Fox, O. A., St. Paul
 Fraley, Mrs. J., St. Paul
 Fralick, C. J., Nary
 Francis, C. S., Ponca, Neb.
 Francis, G. A., Frederic, Wis.
 Frank, J. William, Belle Plaine
 Franklin, Benjamin, Roseau
 Franks, C. W., St. Paul
 Franks, Ray, Viceroy, Sask., Canada
 Frederiksen, C. H., Clements
 Frederickson, Casper, Lumberton
 Frederickson, Marcus, Hanska
 Freeburg, Fred, Boyd
 Freeman, Mrs. L. G., St. Paul
 French, A. L., Anoka
 French, Mrs. A. L., Anoka
 Friberg, C. P., Boyd
 Frienn, Elmer, Red Wing
 Fries, George A., Frederic, Wis.
 Fristed, Walter, North Branch
 Friton, Otto, Sleepy Eye
 Frokjer, James, Askov
 Fuhr, Louis A., Vesta
 Fuller, H. A., Mankato
 Gabrielson, Emil, Maple Plain
 Gackstetter, Henry, South St. Paul
 Gaine, W. R., Brownsville
 Gallinger, R. J., Glenwood
 Gannon, Claude, Brooten
 Ganter, Gladys, New Brighton
 Gardner, F. L., Pine City
 Gartside, Agnes, St. Paul
 Gaumnitz, Fred, St. Paul
 Gaumnitz, H., St. Paul
 Gearty, P. W., Robbinsdale
 Gearty, John T., Robbinsdale
 Genge, Nels M., Princeton
 Germann, Mrs. G., St. Paul
 Germann, Mrs. J. F., St. Paul
 Germann, Lucy, St. Paul
 Gerson, W. A., Dayton
 Gerten, F. L., South St. Paul
 Gibbs, Frank, Merriam Park
 Gibson, J. D., Morrystown
 Giddings, Mrs. G., Anoka
 Giddings, G., Anoka
 Gifford, Jessie, St. Cloud
 Gillispie, J. E., Stillwater
 Gilman, Fred, St. Francis
 Gilsdorf, Jess, Homel
 Girrbach, George, Minneapolis
 Gjertson, George, Madelia
 Gleason, J. J., Minneapolis
 Glenn, Sam, Eden Prairie
 Glenzke, Peter, Hopkins
 Glenzke, Mrs. Peter, Glen Lake
 Golie, A. F., Sacred Heart
 Gonsseff, W. V., Owatonna
 Goodrich, J. A., Minneapolis
 Gorder, Arnold, Starbuck
 Gould, Mrs. E. W., Minneapolis
 Gould, Ellis, Fair Haven
 Grant, Harry C., Faribault
 Grant, Mrs. M. C., St. Paul
 Grass, George, Amboy
 Grass, N. P., Amboy
 Graue, Arnold, Windom
 Graue, Eva, Windom
 Graue, Mrs. O. M., Windom
 Gray, Charles, Chicago, Ill.
 Gray, J. O., Sauk Center
 Gray, Janet R., Aitkin
 Gray, N. H., Fergus Falls
 Greaves, G. R., Jordan
 Gregorson, Victor, Luck, Wis.
 Gregory, Lucius, St. Cloud
 Grellong, L. J., Franklin
 Gronlund, Oliver, Cushing, Wis.
 Grout, I. E., Blue Earth
 Gudal, J. M. O., Hankow, China
 Gullickson, Mrs. T. W., Bay City, Wis.
 Gunderson, Gunder, Porter
 Guseph, G. O., Hazel Run
 Gustafson, P. O., Maynard
 Gustafson, S. G., Delano
 Gustafson, W. H., Montevideo
 Gutzler, C. T., St. Paul
 Habberstad, Alethea, St. Paul
 Habberstad, George N., Stillwater
 Habberstad, Martha, St. Paul
 Habberstad, N. M., St. Paul
 Habberstad, Nora C., Stillwater
 Habberstad, Pearl D., St. Paul
 Habberstad, Ruth, Stillwater
 Hackett, S. M., Aitkin
 Haedecke, Mrs. A. D., St. Paul
 Haedecke, August, St. Paul

- Hage, John, Minneapolis
 Hageman, L. G., Hastings
 Hageman, William M., Hastings
 Hagen, Adolph, Starbuck
 Haglund, O. N., East Wood
 Halden, F. E., Mound
 Halden, Mrs. F. E., Mound
 Hall, Emma, St. Paul
 Hall, Marietta, St. Paul
 Hall, William, Hendrum
 Halvorson, Julius, Cyres
 Halvorson, Theodore, Crystal Bay
 Hammerbeck, Sam, Little Falls
 Hammerbeck, Mrs. Sam, Little Falls
 Hammerquist, S. J., Waterloo, Iowa
 Hammond, M. B., St. Paul
 Hammond, Mrs. M. B., St. Paul
 Hance, Mrs. H. E., Mankato
 Hance, H. E., Mankato
 Hancock, J. C., Beroum
 Hansen, Carl, Wood Lake
 Hansen, Carl, Grantsburg, Wis.
 Hansen, John, Grantsburg, Wis.
 Hansen, J. M., Milltown, Wis.
 Hansen, Ralph, Luck, Wis.
 Hanson, Anton, Luck, Wis.
 Hanson, Arthur M., Montevideo
 Hanson, E. A., Albert Lea
 Hanson, H. E., Mapleton
 Hanson, H. H. Delevan
 Hanson, Henry, Cresbard, S. D.
 Hanson, Henry O., Luck, Wis.
 Hanson, P. M., Canby
 Hanson, P. S., Minneapolis
 Harland, Hill, Elk River
 Hargan, Margaret, Mound
 Harnsohn, Erwin, Le Sueur
 Harrington, Margaret, Merriam Park
 Harris, C. B., Mahtomedi
 Harris, Priscilla, St. Louis Park
 Harrison, Edwin, Excelsior
 Harrison, J. F., Excelsior
 Harrison, J. H., Minneapolis
 Harter, H. I., Robbinsdale
 Hartle, John A., Owatonna
 Hartley, H. L., Duluth
 Hartness, A. E., Dunnell
 Harvey, E. L., St. Paul
 Harvey, Mrs. E. L., St. Paul
 Harvey, William, Rushford
 Harvey, Mrs. William, Rushford
 Hastad, George, Appleton
 Hastay, Mrs. F. A., Minneapolis
 Haueli, A. E., Brandon
 Haueter, Fred, Mayer
 Haug, R. E., Brooten
 Haugan, Knut, Pine Island
 Haugen, Elmer, Manford, N. D.
 Haugen, O. I., Kenyon
 Haugen, Olai, Zumbrota
 Haugen, Peter, Dawson
 Haugen, Mrs. Peter, Dawson
 Haverty, H. A., Maple Lake
 Hawg, Arthur, Alberta, Canada
 Hawkins, Guy C., Minneapolis
 Hawkins, R. W., Warba
 Hawkins, W. H., Rogers,
 Hazel, C. H. G., Mapleton
 Head, Edward, St. Peter
 Headley, Mrs. L. S., St. Paul
 Healy, E. D., Mapleton
 Healy, O. W., Mapleton
 Healy, Ralph, Mapleton
 Heberle, Mrs. L., Lake Elmo
 Heckeroth, Edward, Daytons Bluff
 Station
 Hedlund, Charles O., Frederic, Wis.
 Hedlund, Victor, Frederic, Wis.
 Hedman, Alfred, Lamberton
 Hedman, Andrew, Roseau
 Hedsdrom, Andrew, Herman
 Hedtke, Herbert, Waconia
 Heen, Chris, Osakis
 Heider, Otto, Anoka
 Heinecke, Carl A., Appleton
 Heinecke, George, Appleton
 Helfman, Flora, St. Paul
 Hellickson, Arthur, Spring Valley
 Hemboe, Leah F., St. Louis Park
 Hemfling, Nick, Frederic, Wis.
 Hendricks, E. F., Watertown
 Hendrickson, E. W., Mahtomedi
 Hennesey, T. E., Millerton, N. D.
 Henning, Roy, Chicago, Ill.
 Henry, Borden W., St. Paul
 Herbolsheimer, A. J., Glencoe
 Herdine, E. V., Grandy
 Herfort, E. A., Stillwater
 Herman, F. W., Red Wing
 Herman, H. E., Red Wing
 Hermsstad, Joe, Frederic, Wis.
 Hessing, Roland, Jordan
 Hetley, W., Kimberly
 Higbee, E. C., Morris
 Hilgers, J. P., Barnesville
 Hill, Clayton, Eden Prairie
 Hill, Harry, Elk River
 Hill, Leonard, Elk River
 Hill, Ralph, Lewiston
 Hilleboe, J. S., Warren
 Hinckley, Mrs. C. E., Minneapolis
 Hinrichs, H., Red Wing
 Hintz, Julius, Kiester
 Hodgson, Robert, St. Paul
 Hoese, William, Mayer
 Hohag, C. A., Hopkins
 Holden, A. W., Amboy
 Holger, Nels, Braham

- Holiday, John W., Pine City
 Holm, C., Twin Valley
 Holmberg, Gust, Cambridge
 Holmen, Oscar, Burtrum
 Holmen, Mrs. Oscar, Burtrum
 Holmers, E. J., Minneapolis
 Holmes, Lawrence V., Wrenshall
 Holmes, M. S., Morristown
 Holmgren, LeRoy E., Cambridge
 Holst, H. C., Lake City
 Holt, A. A., Munger
 Holt, Mrs. Ira C., Pine City
 Holtan, Mrs. Alfred, Dawson
 Holtan, Martin, Dawson
 Holtzermank, Louis J., Minneapolis
 Homme, Gunder, Porter
 Hone, Axel, Frederic, Wis.
 Hoover, Newton D., Frederic, Wis.
 Horner, M. C., Wrenshall
 Horning, Mrs. D. W., Minneapolis
 Horton, Byron, North Branch
 Hosetter, A. B., Duluth
 Hoverson, Alby, Brooten
 Hoverstad, J. A., Minneapolis
 Hoversten, Albert, Waseca
 Hovland, Edward, Emmons
 Howard, H. R., Lake Crystal
 Howard, John I., Detroit
 Hoyum, M. O., Dawson
 Hubman, Mrs. William, Stillwater
 Hughes, Walter S., Minneapolis
 Hulbert, J. M., River Falls
 Hulbert, N. M., River Falls
 Hull, F. H., Brook Park
 Hull, Mrs. F. H., Brook Park
 Hulteen, Victor, Frederic, Wis.
 Hummel, J. A., St. Paul
 Hummel, Mrs. J. A., St. Paul
 Hummel, Mrs. Mary, Minneapolis
 Hunt, Romayne, Anoka
 Huntemer, P. W., Melrose
 Hunter, Mrs. Marie B., Hopkins
 Huntington, Frank, St. Paul
 Huntsinger, L., Douglas
 Huntsinger, W., Anoka
 Huntsinger, Mrs. W., Anoka
 Hurlbut, Gladys, Minneapolis
 Husby, I., Cannon Falls
 Ickler, J. K., Dayton's Bluff Station
 Iliff, A. A., Zimmerman
 Imsdahl, J. T., Oslo
 Ingersoll, T. W., Buffalo
 Iverson, Albert, Hugo
 Jackman, C. E., Estherville, Iowa
 Jacob, L. O., Anoka
 Jacobsen, W. C., Morgan
 Jacobson, H. M., Cannon Falls
 Jacobson, N. M., Northfield
 Jacobson, Mrs. N. M., Northfield
 Jager, John, Minneapolis
 James, J. O., North Branch
 Jameson, Mrs. Charles, Stillwater
 Jandro, O. M., Waverly
 Jensen, Andrew, Rose Creek
 Jensen, Carl, Arco
 Jensen, Christ B., Frederic, Wis.
 Jensen, George A., Underwood
 Jensen, Jim, Luck, Wis.
 Jensen, Leo, Luck, Wis.
 Jensen, N. P., Ulen
 Jensen, Norvig S., Frederic, Wis.
 Jensen, Stanley, Cushing, Wis.
 Jensen, William, Glendon
 Jensen, Wesley, Madison
 Jensen, Jens, Luck, Wis.
 Jergens, W. E., Biscay
 Jessen, Murrey, St. Charles
 Johannessohn, Mrs. A. T., Beltrami
 Johannessohn, Louis, Beltrami
 Johansen, N. P., Askov
 Johnson, Albin, Maple Plain
 Johnson, Almer, Dassel
 Johnson, Amy, Maple Plain
 Johnson, Axel B., Eagle Bend
 Johnson, C. E., Center City
 Johnson, C. M. E., Slayton
 Johnson, C. P., Frederic, Wis.
 Johnson, Claus, Rockwell City, Iowa
 Johnson, Edward, Copas
 Johnson, Elmer, Isanti
 Johnson, Elmer O., Frederic, Wis.
 Johnson, Emil, Randolph
 Johnson, Hans M., Lamberton
 Johnson, Harold B., Herman
 Johnson, Harry J., Eagle Bend
 Johnson, Herman, Frederic, Wis.
 Johnson, Hjalmer M., Luck, Wis.
 Johnson, J. A., Osseo
 Johnson, Jean, Big Lake
 Johnson, Jens, Lake Crystal
 Johnson, Joel, Robbinsdale
 Johnson, Leonard, Lake Crystal
 Johnson, Louis, Luck, Wis.
 Johnson, Nels, Minneapolis
 Johnson, Ole, St. Louis Park
 Johnson, Verle D., Savage
 Johnson, William, Milltown
 Johnsrud, P. L., St. Paul
 Jones, Earle, Minneapolis
 Jones, Mrs. D. T., Minneapolis
 Jones, E. F., Lake Elmo
 Jones, J. S., Madison
 Jones, Joseph E., Luverne
 Jones, R. G., Pine City
 Jones, Mrs. R. G., Pine City
 Jones, Mrs. T. J., Minneapolis

- Jordahl, Arthur, Manchester
 Jorgensen, Christ, Luck, Wis.
 Jorgensen, Harry, Luck, Wis.
 Jorgensen, Walter, Luck, Wis.
 Jump, Clint L., Milaca
 Jungblut, Fred, Hugo
 Jungers, John, Sandstone
 Kahl, Fred, South St. Paul
 Kahl, Willie, South St. Paul
 Karnick, R. C., Hastings
 Karstad, Mrs. O. C., Nicollet
 Kasal, William, Brownton
 Kast, John J., Germantown
 Kauth, Frank, Loretto
 Kauth, John, Loretto
 Keinan, Ralph, Good Thunder
 Keller, C. W., Hastings
 Keller, Frank, Slayton
 Keller, T. J., Merriam Park
 Kemp, Anna, Melrose
 Kemp, Herb, Stillwater
 Kenneberg, Belle, St. Paul
 Kenneberg, S., St. Paul
 Kenny, Rupert, Willow River
 Kern, John H., Stillwater
 Kerr, Charles, South St. Paul
 Kerksen, B. R., Deer Creek
 Keup, W. H., Hector
 Kiedler, Willard, Herman
 Kietzer, Herbert, Vernon Center
 Kiger, H. E., Wheaton
 Kildahl, A. S., Adams
 Kindley, B. O., Killdeer, N. D.
 King, Frank, Stacy
 Kirkpatrick, K. A., Robbinsdale
 Kiser, O. M., Crookston
 Kjesness, Mrs. Severt, St. Paul
 Klaussman, Charles, Robbinsdale
 Klaussman, Mrs. Charles, Robbinsdale
 Klinka, John S., Balsam Lake, Wis.
 Klinka, Mrs. J. S., Balsam Lake, Wis.
 Klipp, Erik A., Frederic, Wis.
 Klitzke, H. T., Stewart
 Knock, F. E., Wheaton
 Knopke, Emil L., Buffalo
 Kobler, Fred L., Deer Creek
 Kobler, H. L., Deer Creek
 Koeneman, E. J., Cass Lake
 Koening, George, Homer
 Koep, A. F., Sauk Rapids
 Koerner, Illa, St. Paul
 Koerner, Olga, St. Paul
 Koldid, G., Minneapolis
 Kout, P. H., St. Paul
 Koziol, Anton, Little Falls
 Koziol, Justine, Little Falls
 Kozitza, Andrew, Mapleton
 Krause, Mrs. Charles, Merriam Park
 Krehn, Emil, South Haven
 Kromgarde, Emery, Stillwater
 Kron, George, Richmond
 Krueger, Fred, Stillwater
 Krum, Mrs. H. G., White Bear
 Kruse, J. H., Worthington
 Kubus, Peter, Osseo
 Kuchenbecker, E. H., Owatonna
 Kvenoden, Nels J., Fertile
 Labbett, William H., St. Paul
 Lacy, T. W., Minneapolis
 Lacy, Mrs. T. W., Minneapolis
 Lagersen, Ole, Anoka
 Laingen, Charles R., Cottonwood
 Lamb, Chester, Zumbro Falls
 Lambert, E., St. Paul
 Lamborn, George H., Minneapolis
 Lamborn, Mrs. G. H., Minneapolis
 Lamborn, Henry, Minneapolis
 Lang, H. W., Appleton
 Langum, Mrs. Anna, Minneapolis
 Langum, Henry, Minneapolis
 Lantto, Jacob, Annandale
 Larson, A. J., Dawson
 Larson, Albert G., Cambridge
 Larson, Alvin, Little Falls
 Larson, Anna, Shell Lake, Wis.
 Larson, C. E., Grantsburg, Wis.
 Larson, Ernest, Frederic, Wis.
 Larson, H. G., Duluth
 Larson, L. G., Cambridge
 Larson, L. M., Hopkins
 Larson, L. O., Minneapolis
 Larson, Raymond V., Taylors Falls
 Laue, Anna E., St. Paul
 Lauer, Leonard, Roscoe
 Laughhead, W. B., Minneapolis
 Laughlin, Mrs. Eva B., Anoka
 LAVORSON, Elmo, Brooten
 Lawrence, Mrs. A. L., St. Paul
 Lawson, Even L., Luck, Wis.
 Lawson, Hance O., Luck, Wis.
 Lawson, Martin A., Luck, Wis.
 Lawton, Mrs. A. M., Farmington
 Lebeck, Alfred, Manchester
 Lee, F. N., Britton, S. D.
 Legler, Mrs. Henry, Northfield
 Leifson, Lars, Glencoe
 Leindecker, Henry W., Bird Island
 Leitschuh, Henry, Sleepy Eye
 Leitze, H. M., Stillwater
 Leitze, L. S., Stillwater
 Lemppa, Peter L., Little Falls
 Lent, C. C., Stacy
 Leonard, H. R., Stillwater
 Levorson, Leonard, Brooten

- Lewer, John, Waseca
 Lewis, A. E., Minneapolis
 Leyh, Fred, Bertha
 Leyh, Walter, Bertha
 Liebbrand, E. J., Jordan
 Liesenfeld, Jacob, Comfrey
 Liller, Florence E., St. Paul
 Lincoln, A. L., Pipestone
 Lincoln, Guy E., Minneapolis
 Lindahl, Edith, St. Louis Park
 Lindgren, Nathan, Marine Mills
 Lindh, Albert, Frederic, Wis.
 Lindquist, Axel, Luck, Wis.
 Lindstrom, J. D., Braham
 Lingen, Carl, Starbuck
 Little, J. L., Hastings
 Little, P. R., Excelsior
 Locke, Frank, Osseo
 Lofgren, C., Minneapolis
 Logue, Constance, St. Paul
 Logue, Mrs. Emily V., St. Paul
 Lohmen, Victor, Lake Elmo
 Loidolt, Bert, Sauk Rapids
 Loken, Oscar, Windom
 Luehr, E. F., Caledonia
 Luers, H. F., Owatonna
 Lund, Eddie, Lafayette
 Lund, Louis, Luck, Wis.
 Lundberg, Victor E., Annandale
 Lunde, Carl A., Zumbrota
 Lundeen, Mark, Isanti
 Lundgren, Frank, Frederic, Wis.
 Lundholm, K. F., St. Paul
 Lunn, F. E., Wheeler, Wis.
 Lusk, Mrs. W. F., St. Paul
 Luther, Clara M., Minneapolis
 Lyden, Andrew, Chisago City
 Lynch, R. E., Zimmerman
 Lyness, C. E., New Richland
 Lyness, Mrs. C. E., New Richland
 McBroom, J. K., Excelsior
 McCallum, M., Hastings
 McCarthy, Owen, Mendota
 McCarthy, R. H., Madelia
 McCarthy, Mrs. R. H., Madelia
 McCauley, John, Warba
 McClellan, H., Brook Park
 McClellan, L. E., Hopkins
 McClintock, Mrs. H. L., St. Paul
 McCready, Mrs. S. T., Linden Hills
 Station
 McDole, G. R., St. Paul
 McGee, Jerome, New Haven, Conn.
 McGill, R. F., Minneapolis
 McGill, Mrs. H. M., Minneapolis
 McGregor, R. C., Stillwater
 McGuire, Mrs. D. F., Hopkins
 McKay, Peter, Delhi
 McKay, Thomas, Delhi
 McKibbin, Anne D., St. Paul
 McManus, O. J., Winona
 McMiller, R. R., Minneapolis
 McNeil, W. R., Pullman, Wash.
 McQuilan, Cecelia, Sioux City, Iowa
 Mackintosh, Mrs. R. S., St. Paul
 Madline, Joseph, North St. Paul
 Magler, Mrs. C. O., St. Paul
 Magnuson, A. L., Copas
 Mahle, Simon, Louisburg
 Mailand, J. C., St. Paul
 Malcolm, W. G., Bigelow
 Malcolm, Mrs. W. G., Bigelow
 Malmgren, J. B., Kerkhoven
 Maloney, Mrs. M., Haddon Heights,
 N. J.
 Maltby, Alexander M., Rich Valley
 Manchester, Mrs. Stella, Hopkins
 Mandell, Sidney, Faribault
 Mandich, Stanley, Excelsior
 Mangel, Christ, Sauk Rapids
 Mardaus, J. W., Stillwater
 Marquardt, Arthur, South Haven
 Marsden, Harry, Hendrum
 Martin, A. W., Frederic, Wis.
 Martin, Edward G., Pipestone
 Martin, Miles, Fergus Falls
 Martinson, C. P., Tyler
 Mason, H. M., Redwood Falls
 Mason, Mervin, Redwood Falls
 Massicotte, Grant, Marine Mills
 Mathiason, Alfred, Walnut Grove
 Mattson, Albin, Bird Island
 Mattson, Fred, New York Mills
 Mattson, I. B., Tyler
 Mattson, Theodore, Chisago City
 Maughan, M. O., Columbia, Mo.
 Maxwell, J. A., St. Paul
 Meehan, John, Waverly
 Meehan, M., Olander
 Mehlhouse, John, Olivia
 Mehsikomer, Louise, St. Paul
 Mehsikomer, Matilda, St. Paul
 Mehsikomer, Theresa, St. Paul
 Meinke, John, Minneapolis
 Meintsma, Bert, Maple Lake
 Meintsma, Richard, Maple Lake
 Melander, Leonard, Red Wing
 Melching, Mrs. O. C., St. Paul
 Melin, J. N., Harris
 Melom, Martin, Osseo
 Melom, Mrs. M. O., Osseo
 Melwold, Miss May, Fairfax
 Mesenbring, Otto, Cologne
 Metcalf, J. L., Little Falls

- Mickelson, Arnold P., Milltown, Wis.
 Micks, Karl, South St. Paul
 Millard, F. E., Canby
 Miller, Albert, Faribault
 Miller, Mrs. Amanda C., Minneapolis
 Miller, B., Minneapolis
 Miller, Mrs. B., Minneapolis
 Miller, Herbert, Park Rapids
 Miller, Hugo, South St. Paul
 Miller, John P., St. Paul
 Miller, Joseph, Tyler
 Miller, Mrs. L., Merriam Park
 Miller, P. E., Morris
 Miller, Walter, Mantorville
 Milne, George H., Preston
 Miner, Sydney, Preston
 Mioch, Steven, Excelsior
 Mix, George, Red Wing
 Moberg, N., Worthington
 Moen, J. E., Starbuck
 Moffatt, Mrs. C. J., St. Louis Park
 Mogan, Mrs. F. P., Minneapolis
 Mohnsen, George, Luck, Wis.
 Moller, J. G., Luck, Wis.
 Molloy, F. J., Faribault
 Molloy, J. P., Faribault
 Molter, E. L., Fergus Falls
 Montgomery, B. L., Blue Earth
 Montgomery, I., Deephaven
 Montgomery, Mrs. J. S., St. Paul
 Moore, A. K., Page
 Moore, Charles A., Solon Springs
 Moore, F. F., Carlton
 Moore, V. E., Triumph
 Moorehouse, Mrs. F. E., Minneapolis
 Moorehouse, Mrs. J. F., Minneapolis
 Morley, Joseph, Redwood Falls
 Morris, Mrs. Frank, St. Paul
 Morris, W. E., Olivia
 Morrison, A. E., Copas
 Morrison, E. G., Copas
 Morrison, F. G., Copas
 Morseth, Benjamin, Appleton
 Mortenson, H. J., Litchfield
 Mortenson, Otto, Litchfield
 Morton, J. L., Akeley
 Morton, Mrs. J. L., Akeley
 Mosbak, L., Askov
 Mosey, C. E., Monticello
 Moshier, C. F., Minneapolis
 Moulton, Merton, Rush City
 Muehring, Herman, South Haven
 Muehring, Lewis, South Haven
 Mueller, Frank, Hayfield
 Mundt, Rudolph, Stillwater
 Munier, George F., Glencoe
 Munn, Mrs. M. D., Forest Lake
 Munsinger, J. P., St. Cloud
 Munson, Bennie, Pelican Rapids
 Munson, Edward, Pelican Rapids
 Munson, Martin, Pelican Rapids
 Murphy, Miss B., St. Paul
 Murphy, F. W., Wheaton
 Murphy, Miss J. R., St. Paul
 Murphy, Ralph, Cushing
 Murray, Harold D., Wadena
 Murray, W. A., Wadena
 Musser, J. C., Fairmont
 Myers, W. H., Elk River
 Nash, Carroll D., Tracy
 Nash, Mrs. Carroll D., Tracy
 Naughton, William, St. Paul
 Nellerhoe, T. A., Sacred Heart
 Nelson, A. P., Maynard
 Nelson, Andrew, Robbinsdale
 Nelson, Anton, Cushing
 Nelson, Arthur, White Bear
 Nelson, Mrs. B., Anoka
 Nelson, Charles, Litchfield
 Nelson, Mrs. Charles, Litchfield
 Nelson, Charles A., Luck, Wis.
 Nelson, Clarence, Milltown
 Nelson, Edward, Hudson, Wis.
 Nelson, G. M., Austin
 Nelson, H. A., Eagle Bend
 Nelson, Hazel, Constance
 Nelson, I. E., Lake Crystal
 Nelson, J. K., Princeton
 Nelson, John P., Stillwater
 Nelson, Lewis, Mora
 Nelson, N. F., Montevideo
 Nelson, O. B., Minneapolis
 Nelson, R. M., Duluth
 Nelson, Senius, St. Peter
 Nelson, W. F., Ashby
 Nelson, William, Clearbrook
 Nemece, Bessie, St. Louis Park
 Nesbitt, John, Eden Prairie
 Nesbitt, William, Eden Prairie
 Nesbitt, William H., Duluth
 Neubauer, August, Wykoff
 Newberg, Andrew, Excelsior
 Newmann, A., St. Paul
 Newman, Miss L., St. Paul
 Nielsen, Albert E., Leech Lake
 Noleen, Alfred, Shafer
 Noltmier, Margaret, St. Paul Park
 Noltmier, Stanley J., St. Paul Park
 Noren, George, Chisago City
 Norling, Albert L., Elbow Lake
 Norsen, K. A., Alexandria
 Novak, E. E., New Prague
 Novotny, George, Maple Lake
 Nygaard, Petra, Starbuck

Nylin, Victor E., Tracy
 Nystrom, Ida, Worthington
 O'Banion, A. C., Glyndon
 O'Connell, James L., Le Sueur Center
 O'Connell, F. P., Waverly
 O'Hara, James, Lanesboro
 O'Hara, Mrs. James, Lanesboro
 Oberg, Reuben W., Frederic, Wis.
 Obernoite, Edward, Tamarack
 Odean, Walter, Minneapolis
 Odegaard, S. O., Sacred Heart
 Odland, Theodore, Jr., Bertha
 Oech, Lewis, Winona
 Oehler, Miss L., St. Paul
 Oelke, Leopold, Blue Earth
 Oftedahl, Bennie, Pemberton
 Oftedal, Sidney, Hanley Falls
 Olmen, Joseph, Canosia
 Olson, A. P., Excelsior
 Olson, Albert, Cushing, Wis.
 Olson, Ben, Lansing
 Olson, Emma, Minneapolis
 Olson, Ernest, Robbinsdale
 Olson, Fletcher, Robbinsdale
 Olson, George W., Carver
 Olson, Mrs. George W., Carver
 Olson, Henry A., Grove City
 Olson, J. M., Hutchinson
 Olson, Lewis H., Gildford, Mont.
 Olson, Maurice F., Cushing, Wis.
 Olson, Minnie, Minneapolis
 Olson, Sam, Madison, Wis.
 Orr, L. W., Hastings
 Osborne, Fred E., South St. Paul
 Ostrem, Carl, Winthrop
 Ostrem, H., Winthrop
 Oswald, Henry W., Minneapolis
 Oswald, J. J., Minneapolis
 Oversen, Arthur, Starbuck
 Oweno, J. T., Minneapolis
 Paddock, Harry, Walker
 Page, Mrs. Howard, Brookhaven
 Palmer, A. T., Minneapolis
 Palmer, Frank C., St. Paul
 Palmer, Leonard, Minneapolis
 Palmer, M., Minneapolis
 Parker, Mrs. E. H., Minneapolis
 Parkes, Fenton, Sauk Center
 Parson, Edwin, Northfield
 Parson, N., Northfield
 Parson, Mrs. N., Northfield
 Pauley, Julius, Stillwater
 Paulsen, Herliof, Luck, Wis.
 Peake, G. C., Minneapolis
 Pearson, Clarence, Center City
 Pearson, Frans, Fergus Falls
 Pechack, Joseph, Owatonna
 Pedersen, Paul A. O., Luck, Wis.
 Penhallegon, Sadie, Princeton
 Pensyl, E., Nashua
 Pentz, Milton H., St. Cloud
 Perkins, Alfred G., St. Paul
 Perkins, W. F., Minneapolis
 Perry, Dorothy, Felton
 Perry, F. W., Minneapolis
 Pesek, C. M., St. Paul
 Peterman, John, Waconia
 Peterman, O. C., Waconia
 Peters, Henry, South St. Paul
 Petersen, Arnold, Luck, Wis.
 Peterson, Axel, Starbuck
 Peterson, C. O., Atwater
 Peterson, C. R., Red Wing
 Peterson, C. W., St. Paul
 Peterson, Clifton, Isanti
 Peterson, Delmar F., Cushing, Wis.
 Peterson, Ella, Starbuck
 Peterson, George, North Branch
 Peterson, Harry, Grove City
 Peterson, Herbert, Chisago City
 Peterson, Howard A., Luck, Wis.
 Peterson, J. E., St. Paul
 Peterson, Martin B., Ruthton
 Peterson, N. C., Askov
 Peterson, R. S., Red Wing
 Peterson, Roy W., Luck, Wis.
 Peterson, Sigvald, Luck, Wis.
 Peterson, W. Edwin, Zumbrota
 Peterson, William, Belview
 Peterson, William T., Ruthton
 Peterson, Wilmar C., Luck, Wis.
 Petschl, Mrs. Frank, St. Paul
 Pfeil, Roy, Worthington
 Pierce, F. D., River Falls, Wis.
 Pierce, Guy H., Lewiston
 Pinney, E. L., Le Sueur
 Pofahl, Alice, Waconia
 Pollard, Mrs. Grace L., Minneapolis
 Ponath, Mrs. A. E., St. Paul
 Pond, G. A., Shakopee
 Pond, J. M., Shakopee
 Pond, Harold H., Minneapolis
 Pond, Wilson, Minneapolis
 Porter, C. V., Viroqua, Wis.
 Potter, George H., Triumph
 Potter, L. E., Springfield
 Potthoff, A. C., Daytons Bluff Station
 Poulsen, Alfred, Redwood Falls
 Pratt, C. L., Minneapolis
 Pratt, C. N., Minneapolis
 Preston, Clark, Smith Mills
 Preston, Ralph, Smith Mills
 Pryor, Leonard H., Hinckley
 Purdham, C. W., Anoka

- Purmort, J. E., Cedar
 Purmort, Mrs. J. E., Cedar
 Putnam, F. H., Elk River
 Putnam, H. A., Battle Lake
 Quiggle, Edith, Pelican Rapids
 Quiggle, Edna, Pelican Rapids
 Raben, Fred, Albert Lea
 Ramsey, Mrs. F. M., Mahtomedi
 Randlett, Mrs. Gordon W., Brook-
 ings, S. D.
 Rathke, H. S., Preston
 Rathke, Mrs. H. S., Preston
 Raymond, E. D., Wayzata
 Reben, Adolf, Albert Lea
 Reechstadt, W. M., South St. Paul
 Reepes, N. H., Minneapolis
 Rehder, Elsie, Stillwater
 Reinertson, P. A., Rushford
 Remley, Frank, Luck, Wis.
 Reonnpferd, A. F., Amboy
 Reynolds, Alice, Minneapolis
 Reynolds, E. E., Minneapolis
 Reynolds, M. E. E., Minneapolis
 Rhoys, William, Victoria
 Richards, H. L., Minneapolis
 Richardson, Frank W., Garden City
 Richardson, George, Garden City
 Richardson, Mrs. I. E., New Brighton
 Ring, J. P., Sauk Rapids
 Ripley, E. V., Park Rapids
 Ripley, Mrs. E. V., Park Rapids
 Roach, M. J., Minneapolis
 Robinson, Harriet M., Minneapolis
 Robinson, Harry S., Angus
 Robinson, R. B., Minneapolis
 Rochette, R. E., St. Paul
 Roe, Ludwig I., Northfield
 Rogers, Caroline, Madison
 Rogers, J. P., Montrose
 Rohwer, Clarence, Rushmore
 Roise, Henry, Madison
 Rolstad, I. A., Thief River Falls
 Rombaugh, D. S., Villard
 Rommes, Harold, Sacred Heart
 Romo, L. L., Kenyon
 Rose, Lasby V., Mankato
 Rose, Mrs. W. D., Mankato
 Rosendahl, Harold, Minneapolis
 Rosenwald, O., Norwood
 Rosenwald, Oswald, Kandiyohi
 Rosholt, Fred, Warba
 Roth, Rufus, Lambertton
 Rotto, Martin, Farwell
 Rotz, Erwin O., Truman
 Rowekamp, George L., Winona
 Ruble, F. S., Albert Lea
 Rud, Sigurd, Frederic, Wis.
 Ruedlinger, Mrs. C. N., Minneapolis
 Ruedlinger, Louise S., Minneapolis
 Ryberg, August, Center City
 Rydell, E. A., Minneapolis
 Rydell, Oscar, Pipestone
 Rysgaard, Mrs. J. M., St. Paul
 St. Martin, E. J., Minneapolis
 Saari, Matt, Ely
 Sahr, Theodore, Frederic, Wis.
 Samuelson, S., Mayer
 Sanborn, R. E., Elgin, N. D.
 Sandeen, E. W., St. Peter
 Sanders, George P., Palisade
 Sanders, Stuart, Bethel
 Sansen, C. G., Dunnell
 Sarff, J. W., Hebron
 Sargent, Forrest H., St. Paul
 Sather, Carl, Frederic, Wis.
 Sawyer, Mrs. N. S., Excelsior
 Sayers, A. L., Lakeville
 Schafer, B. J., Stillwater
 Schaffer, W. A., Cannon Falls
 Schak, George B., Hugo
 Schandorff, Fred L., Luck, Wis.
 Schanil, George, Olivia
 Scharber, John W., Anoka
 Schermer, Nicolaas, Maple Lake
 Scherrier, O. M., Chippewa Falls, Wis.
 Schillinger, Emma, Hopkins
 Schindler, Charles, Stillwater
 Schlangen, Jacob, Richmond
 Schmelzer, Herbert, Little Falls
 Schmid, Roland, Minneapolis
 Schmidt, G. C., Rock Creek
 Schnacke, Mrs. R. A., St. Paul
 Schneider, Marjorie, White Bear Lake
 Schoweiler, Anthony, Kellogg
 Schrader, Mrs., Shakopee
 Schram, A. L., Germantown
 Schroeder, E. C., Moorhead
 Schroeder, H. W., Owatonna
 Schulenburg, E. C., St. Paul
 Schulenburg, William T., St. Paul
 Schulz, Rudolph, Goodhue
 Schulze, Mrs. George, Minneapolis
 Schumacher, Fred, Spring Valley
 Schwanbeck, Arthur, Elk River
 Schwartz, Adolph, Red Wing
 Schwarz, M. J., St. Paul
 Schwyzer, G., Minneapolis
 Scofield, M. G., Brook Park
 Scott, John T., St. Paul
 Seaborn, Sarah, Minneapolis
 Sederlund, David, Frederic, Wis.
 Sederlund, S. A., Frederic, Wis.
 Seidenkranz, A., Merriam Park
 Selvig, C. G., Crookston

- Sevareid, M., Zumbrota
 Severson, Elmer, Mapleton
 Severson, Mrs. Elmer, Mapleton
 Severson, J. C., Mapleton
 Severson, Mrs. J. C., Mapleton
 Severson, Victor, Mapleton
 Severson, Mrs. Victor, Mapleton
 Seward, Arthur, Farmington
 Shadbolt, C. S., Minneapolis
 Shafer, Walter, Owatonna
 Shannon, Donald, Bemidji
 Shannon, Paul E., Walnut Grove
 Sharkey, W. J., Belle Plaine
 Sharp, Clarence, St. Paul
 Sharp, Donald, Minneapolis
 Shaver, B. G., Wayzata
 Shaw, Robert, Funkeley
 Shay, Lawrence, Ostander
 Shelby, Albert, Madelia
 Sheldall, M. B., Pipestone
 Shelland, J. C., St. Paul
 Shelton, Ida M., Minneapolis
 Shepard, George, Farmington
 Shepherd, Mrs. W. L., Minneapolis
 Sherman, Stephen, Roberts, Wis.
 Sheu, Lewis, Coleraine
 Shoen, Cecil, Truman
 Showers, F. F., Delavan, Wis.
 Sickeneder, F. J., Waconia
 Silloway, H. F., Minneapolis
 Silrun, Isaac, Bricelyn
 Simmons, J. A., St. Paul
 Simon, Peter, Altura
 Simon, Mrs. Peter, Altura
 Simonson, Martin, Frederic, Wis.
 Sindt, H. A., Ellsworth
 Sisler, Ray L., Grand Rapids
 Siverson, B., Langby
 Sjoberg, Arthur, Mora
 Skalbeck, O. O., Sacred Heart
 Skinmoeen, Ole, Wendell
 Skone, Arthur, Cushing, Wis.
 Skow, Carl, Luck, Wis.
 Skulstad, H. H., Granite Falls
 Slater, Tom, Mendota
 Slava, Andrew, White Bear
 Slava, John, White Bear
 Slocum, Charles, Echo
 Sloen, Ernest, Ellendale
 Smith, C. H., Faribault
 Smith, Mrs. D. R., St. Paul
 Smith, E. W., Parkers Prairie
 Smith, H. R., St. Paul
 Smith, John M., Minneota
 Smith, Mathilda, Mahnomen
 Smith, Mrs. P. H., St. Paul
 Smith, Ruth, Whitlaw, Alta., Canada
 Smith, W. W., Whitlaw, Alta., Canada
 Smith, William, South Haven
 Smithers, Paul, Kallispel, Mont.
 Soderholm, A. O., Red Wing
 Soderlund, A., Sturgis, Canada
 Soderlund, Oscar, Homen, N. D.
 Sohm, Theodore, Le Sueur
 Solve, O. A., Hancock
 Sommed, Carl H., Rush City
 Sondergaard, M., St. Paul
 Sondergaard, H. T., Minneapolis
 Sorensen, Thorwald, Luck, Wis.
 Sorenson, George, Wayzata
 Sorenson, James, Albert Lea
 Sorenson, Niels, Luck, Wis.
 Sorenson, Soren, Osakis
 Souba, A. J., Hopkins
 Spanier, Mathew, Roscoe
 Spohn, F. W., Anoka
 Spreiter, W. E., Onalaska, Wis.
 Springer, Emil, Zumbro Falls
 Springer, J. J., Zumbro Falls
 Stage, Bessie, Rushford
 Stahman, W. F., Wyoming
 Stanley, W. F., Minneapolis
 Starz, Edward, Zumbro Falls
 Stassen, William, St. Paul
 Stearns, Arthur, Dexter
 Steele, P. C., Red Wing
 Steenson, A., Eden Prairie
 Steidl, Raymond H., Wheaton
 Steidl, Simon, Carlos
 Steiner, Mrs. J. F., Minneapolis
 Steinmetz, F. H., Truman
 Stensrud, Hans, Watson
 Stevermer, E. B., Easton
 Stewart, J. E., Medford
 Stiff, Clem, Grove City
 Stone, Walter, Newport
 Stone, Mrs. W., Newport
 Stotelberg, Herbert, Ellsworth
 Stower, F. J., Frederic, Wis.
 Stradtman, Fred, Jr., Glencoe
 Strate, Mercedes, Newport
 Strating, G. H., Milaca
 Street, C. J., Sturgeon Lake
 Strom, George, McGregor
 Suck, H. W., Freeport
 Sutton, W. D., Menahga
 Sveeggen, S., Alcester, S. D.
 Swain, Glyde, Elysian
 Swanberg, Mrs. George, St. Paul
 Swanson, Albert F., Big Lake
 Swanson, Geneva, Anoka
 Swanson, Ida, Anoka
 Swanson, N. F., Minneota
 Sweeley, Frank L., St. Paul

- Swenson, Almer W., South Haven
 Swenson, Vera, Enfield
 Swerkstrom, Charles, Luck, Wis.
 Syndal, L. E., Hills
 Tamke, John H., Brook Park
 Taylor, Elmer, Minneapolis
 Taylor, F. J., Russell, Iowa
 Taylor, Fern, Minneapolis
 Taylor, George S., Withrow
 Taylor, Henry L., Anoka
 Taylor, James, Jasper
 Taylor, L. S., Owatonna
 Taylor, Mrs. R. C., Minneapolis
 Teigen, L. O., Jackson
 Tessen, Milo, Starbuck
 Theilmann, F. W., Hancock
 Theilmann, P. W., Minneapolis
 Theisen, Leon P., Kimball
 Thill, N. C., Belle Plaine
 Thom, Paul, Cologne
 Thomas, Everett, Farmington
 Thomford, F. H., Zumbrota
 Thompson, Clara A., Minneapolis
 Thompson, Earle, Clearwater
 Thompson, G. C., Truman
 Thompson, G. W., Minneapolis
 Thompson, M. J., Duluth
 Thompson, Mackey J., St. Paul
 Thompson, Nels, Windom
 Thompson, Ruth, Minneapolis
 Thompson, Mrs. T. A., Constance
 Thompson, T. L., St. Paul
 Thompson, Mrs. U. S., Minneapolis
 Thompson, Mrs. Ward, St. Paul
 Thornton, B., Elizabeth, Minneapolis
 Thornton, Katherine, Minneapolis
 Thorsen, Emil M., St. Paul
 Thorson, Louis, Fallon, Mont.
 Thorson, Theodore, Hammond, Wis.
 Thorson, Theodore, Le Sueur Center
 Thorstad, Alfred, Lake Crystal
 Thursby, L. P., Porter
 Tierney, John E., St. Paul
 Tillisch, Mary A., Minneapolis
 Tillotson, William, Broosten
 Tjosvold, L. A., Willmar
 Tobin, J. M., Fairmont
 Tomlinson, Bessie A., Minneapolis
 Tompkins, LeRoy, Byron
 Tornell, Eugene, Lindstrom
 Tousignant, V. E., Mendota
 Tovey, James, Taylors Falls
 Townsend, Sherman, Stillwater
 Trautman, Harry, Comfrey
 Trovatten, Olaf, Hanley Falls
 Truax, Howard, Zimmerman
 Trump, Ruth, Robbinsdale
 Tucker, C. H., Rogers
 Tucker, P. J., Rogers
 Tuckey, Mrs. L. H., Minneapolis
 Tuff, J. P., Staples
 Tundell, Fredolph, Cambridge
 Turner, W. H., St. Peter
 Turner, Mrs. W. H., St. Peter
 Twetten, E. C., Luck, Wis.
 Tysseling, H. R., Elkton
 Uhlin, Bernard, St. Paul
 Ulland, S. S., Blooming Prairie
 Ulland, Mrs. S. S., Blooming Prairie
 Ulm, William, Le Sueur
 Underwood, W. W., Pierz
 Utley, Mrs. E. S., Minneapolis
 Utne, John, Dalton
 Van de Bogart, Mrs., Zumbrota
 Van Dyke, Frank, Rush City
 Van Dyke, W. E., Rush City
 Van Slyke, S. E., Northfield
 Varrum, H. J., Wayzata
 Vaughn, Edward, Poplar, Wis.
 Vaux, E. J., Faribault
 Velat, Ella, St. Paul
 Vig, Marius, Luck, Wis.
 Visher, Harvey, Forestburg, S. D.
 Vollmer, George F. J., Stillwater
 Vondracek, L. J., New Prague
 Vessey, R. A., Minneapolis
 Von Lehe, Oscar, Le Sueur
 Von Wald, H. C., Nerstrand
 Vorhes, R. M., Broosten
 Vorhes, Ralph, Broosten
 Vrooman, Lewis E., Minneapolis
 Vye, Mary A., St. Paul
 Wagner, E. P., Deer Creek
 Wagner, Mrs. Fred, Stillwater
 Wagner, H. Cortelyou, Excelsior
 Wagner, Walter, Withrow
 Wahlgren, Swan, Minneapolis
 Waldeen, C. H., Rice
 Waller, Adolf, Grove City
 Walsten, Randolph, Cushing, Wis.
 Walsten, Leonard, Cushing, Wis.
 Walter, Gilbert, Waconia
 Warner, Charles E., Osseo
 Washburn, G. H., Brook Park
 Watkins, Harlow, Carlton
 Watson, J. G., Brandon, Vt.
 Watts, S. C., St. Charles
 Waylander, Nels N., Grove City
 Wees, John, West Concord
 Wehlitz, Mrs. W. F., Anoka
 Weigen, Martin, LeRoy
 Weise, Edward, Wells
 Weiss, E., St. Paul
 Welle, Leo, Freeport

Welsandt, William, Eitzen
 Wennerholm, J. P., Minneapolis
 West, Hans, Grantsburg, Wis.
 West, J. P., St. Paul
 Westerlund, August, Clearbrook, Wis.
 Westerlund, Ernest, Farwell
 Westphal, G. L., Robbinsdale
 Weyher, L. C., Brook Park
 Weyrens, Peter, St. Cloud
 Whitaker, C. R., Hastings
 White, C. H., Excelsior
 White, Frank W., Marshall
 White, G. T., Cloquet
 Whitney, William S., Worthington
 Whitney, Mrs. William S., Worthington
 Whitson, William, Franklin
 Wiggerson, Miss L., Minneapolis
 Wiker, N. H., Mabel
 Wilcox, Mrs. E. W., St. Paul
 Wilcox, Florence, Mayer
 Wilcox, H. B., Bricelyn
 Wilcox, Mrs. H. B., Bricelyn
 Wilcox, W. W., White Bear Lake
 Wilford, M. C., Canton
 Wilkins, Mrs. John W., St. Paul
 Wilkinson, John D., New Richland
 Wilkus, A. J., St. Paul
 Willard, D. E., St. Paul
 Willard, H. S., Mankato
 Willerbring, John A., Richmond
 Williams, G. L., Canada
 Williams, Henry L., Minneapolis
 Williams, Mrs. Henry L., Minneapolis
 Williams, R. C., Aitkin
 Willis, F., Excelsior
 Wilson, Mrs. C. E., Minneapolis
 Wilson, Clarence, Minneapolis
 Wilson, F. C., Medford
 Wilson, J. J., Royalton
 Winkley, Mrs. Frank, Minneapolis
 Winsemann, William, South Haven
 Winter, Howard, Deer Creek
 Wintersteen, C. B., Minneapolis
 Witham, J. W., Pine River
 Wolfe, Fred, Rush City
 Wolf, S. J., Morristown
 Wolff, Martin, Bird Island
 Woodard, Albert, Frederic, Wis.
 Woost, Louise, St. Paul
 Worsham, C. G., St. Paul
 Worsham, Mrs. C. G., St. Paul
 Wright, S. P., Fergus Falls
 Wulfsberg, E., Elbow Lake
 Wyanish, E., St. Paul
 Wyman, Phelps, Minneapolis
 Wymen, Mrs. Martha A., Minneapolis
 Yaeger, L. A., Good Thunder
 Yaeger, Oscar, Mankato
 Yaeger, Reuben, Mankato
 Yarnell, J. D., St. James
 Young, Dave, Centuria, Wis.
 Youngblood, Leland, Boonville, Ind.
 Youngquist, Charles A., Marine Mills
 Youngquist, Stella, Marine Mills
 Youngquist, W. E., Minneapolis
 Zapp, Clarence J., Blue Earth
 Zavoral, H. G., Laporte
 Zechlin, Fritz, Minneapolis
 Zeigler, Elmer, Brook Park
 Ziemer, J. F., Waltham

Editors' Week Short Course—60

Berglund, Emil, Minneapolis
 Blakely, A. W., Rochester
 Braidenson, B., Duluth
 Campbell, C. C., Ellendale
 Carlson, C. W., Gibbon
 Clay, Cecil, Farmington
 Clay, Ham, Jr., Farmington
 Clement, W. A., Waseca
 Coughlin, J. P., Waseca
 Curtis, Will, St. James
 Dahlquist, W. A., Lancaster
 Dillman, Willard, Excelsior
 Dooley, Henry F., Sleepy Eye
 Duffy, William F., Shakopee
 Erickson, August G., Springfield
 Ericson, Carl O. G., Minneapolis
 Evers, Eric Harold, Minneapolis
 French, C. A., Monticello
 Galer, M. H., Forest Lake
 Gannon, J. L., Northfield
 Harwood, Emma J., Roosevelt
 Henke, Charles W., Dassel
 Holm, N. E., Minneapolis
 Hotaling, H. C., Mapleton
 James, W. Harvey, Breckenridge
 Jaspard, John F., St. Cloud
 Jensen, George M., Duluth
 Kienitz, John E., Cambridge
 Kienitz, Sidney E., Cambridge
 Knutson, Harold, St. Cloud
 Kommerstad, W. M., Albany
 Landy, James R., Olivia
 Langworthy, G. F., Spring Valley
 Liesch, Philip, New Ulm
 McGowan, M. J., Appleton
 Markham, Burt A., St. Peter
 Maxwell, J. A., St. Paul
 Meyst, Frank J., Minneapolis

Morrison, J. C., Morris
 Mueller, Michael G., St. Paul
 Palmer, W. C., Fargo, N. D.
 Peterson, H. I., Litchfield
 Peterson, R. S., Westbrook
 Roble, Anna B., Austin
 Roc, Herman, Northfield
 Rossman, Laurence A., Grand Rapids
 Seiberlich, J. J., Minneapolis
 Sheasgreen, E. E., Chicago, Ill.
 Smith, Charles S., Minneapolis
 Sunstad, Jacob, Hendrum
 Swanson, C. N., Truman
 Towne, William E., Duluth
 Townsend, D. C., Belle Plaine
 Van Rhea, George J., Milaca
 Wambeam, Floyd, Lincoln, Neb.
 Welch, F. M., Stillwater
 Wheaton, H. E., Hokah
 Wheelock, Harry M., Fergus Falls
 Whiting, E. K., Owatonna
 Widsten, Martin, Warroad

Junior Short Course, 1917—1980

Albermathy, Kenneth, Rochester
 Alberts, Esther, Pine Island
 Albrecht, Roy, Morgan
 Albro, Harry, Spring Valley
 Allard, Blanche, Spring Valley
 Allen, George, Rochester
 Allen, Jane, White Bear Lake
 Allen, Samuel, Rochester
 Allin, Alwin, Minneapolis
 Allright, Lester, Morgan
 Allright, Walter, Morgan
 Amidon, E. P., North St. Paul
 Amidon, Roger, North St. Paul
 Anderson, Adell, Braham
 Anderson, Amanda, Braham
 Anderson, Carl, Belgrade
 Anderson, Carol, Braham
 Anderson, Carol, Princeton
 Anderson, Elmer, Darling
 Anderson, Elsie, Isanti
 Anderson, Esther, Audubon
 Anderson, Fred, Bethel
 Anderson, Fredolph, Dalbo
 Anderson, Gertrude, White Bear
 Anderson, Hans, Brainerd
 Anderson, Harold, Hutchinson
 Anderson, Harry, Isanti
 Anderson, Hedvig, Isanti
 Anderson, Josephine, Owatonna
 Anderson, Leslie, Braham
 Anderson, Otto, Dalbo
 Anderson, Richard, Eden Prairie
 Anderson, Roy, Tracy
 Anderson, Teddie, Isanti
 Anderson, Viggs, Askov
 Anderson, William, St. Paul
 Anderson, Willard, Eden Prairie
 Andrews, Ruth, Spring Valley
 Anlund, Aulock, Dalbo
 Anlund, Hugo, Dalbo
 Archard, Essie, Dodge Center
 Armstrong, Blanche, Bricelyn
 Arnold, Harold, Rochester
 Auger, Miss C., White Bear
 Auger, Robert, White Bear
 Austin, Luella, Georgeville
 Bach, Leona, Owatonna
 Bach, Lorraine, Owatonna
 Badger, Robert, Rochester
 Bailey, Claude, Medford
 Bailey, Myron, Medford
 Baker, Irma, Medford
 Bakke, Elmer, St. Paul
 Bakke, Leo, St. Paul
 Bales, Thomas, Winnebago
 Barker, Blaine, Cambridge
 Barney, Wallace, Medford
 Barrich, Lowell, Litchfield
 Barsness, Webster, Elbow Lake
 Barstow, Isaac, Anoka
 Barthine, Verna, Stanchfield
 Beach, Ruth, Hutchinson
 Beaman, Ralph, Deer Creek
 Beaver, Ole, Audubon
 Becker, Harold, Sauk Rapids
 Becker, Mamie, Montgomery
 Becklin, Lloyd, Cambridge
 Becklin, Reuben, Cambridge
 Becklin, Ruth, Cambridge
 Beckman, Adla, Isanti
 Bednar, Josephine, Glencoe
 Bednar, Mary, Silver Lake
 Bednar, Wilhelmina, Silver Lake
 Behrends, Dora, Conger
 Behrendt, Minnie, Merriam Park
 Behrens, Erna, Montevideo
 Bell, Bernice, Hutchinson
 Bell, Ethel, Hutchinson
 Bell, Stella, Hutchinson
 Bemis, Floyd, Long Prairie
 Bender, Lillie, Chaska
 Bengstrom, Orlando, Lanesboro
 Benham, Clyde, Orchard Gardens
 Benham, Helen, Savage
 Benjamin, Ben, Hutchinson
 Bennett, Russell, Ellendale

Benson, Alvin, Harmony
 Benson, Edmund, Harmony
 Benson, Mabel, Isanti
 Benson, Roy, Harmony
 Benton, Cecil, Fairmount
 Berg, Ebba, Cannon Falls
 Berg, Edna, Belgrade
 Bergin, Alvin, Cambridge
 Bergler, Charles, Winona
 Bergler, Helen, Winona
 Bergler, John, Winona
 Bergquist, Forest, Milaca
 Bidwell, Gerry, Minneiska
 Bird, Jennie, Isanti
 Bismark, Anna, Stanchfield
 Bismark, Oscar, Stanchfield
 Bjorka, Knute, Belgrade
 Bjorkmund, Ernest, Bethel
 Blair, Lillian, Remer
 • Bleed, Florence, Forreton
 Bloom, Marvin, Cambridge
 Blume, Della, Gordan
 Blume, Ralph, Herman
 Bocklund, Russell, Princeton
 Bodell, Floyd, Stanchfield
 Bohanon, Henry, Wahkon
 Boostrom, Clara, Isanti
 Boostrom, Luella, Isanti
 Borden, Madena, New Brighton
 Borg, Willis, Isanti
 Borgerding, Francis, Belgrade
 Borgerding, Paul, Belgrade
 Bos, Everett, Milaca
 Bothum, Elmer, Lanesboro
 Bowman, Eva, Merriam Park
 Boyd, George, Wendell
 Bradshaw, Tracy, Dodge Center
 Brandt, Theodore, Barnum
 Bredeson, Oliver, Maynard
 Briggs, H. R., St. Paul
 Briggs, Ralph, St. Paul
 Brody, Arthur, Medford
 Brolin, Lawrence, Cambridge
 Brookman, Tony, Lake Elmo
 Brown, Gilbert, Eden Prairie
 Brown, Irene, Eden Prairie
 Brown, Norman, Cambridge
 Brown, Victor, North Branch
 Brunkow, Carl, Delano
 Brunner, Bertha, Montgomery
 Burch, Edna, Mora
 Burgdorf, Clarence, White Bear Lake
 Burgdorf, Marion, White Bear Lake
 Burrson, Marie, Merriam Park
 Busta, Will, Brownnton
 Cady, Harold, Lewiston
 Caldwell, Lowell, Hermann
 Campbell, Harry, Hutchinson
 Campbell, Richard, Ellendale
 Canfield, Dwight, Owatonna
 Canton, Earnie, Watson
 Canton, Gerda, Watson
 Carlson, Albin, Detroit
 Carlson, Benard, Detroit
 Carlson, David, Stanchfield
 Carlson, Gay, Isle
 Carlson, Helmer, Detroit
 Carlson, Hilda, North Branch
 Carlson, Raymond, Herman
 Case, Ernest, St. Cloud
 Case, Lloyd, Claremont
 Casper, Henry, Hutchinson
 Caton, Charles, Hermann
 Cedarblade, Lyndon, Minneapolis
 Cederstrand, Alva, Cambridge
 Chader, Oscar, Bethel
 Chalstrom, Edith, Dalbo
 Chapel, Milan, St. Louis Park
 Chilstrom, Ida, Isanti
 Christison, William, Plainview
 Churchill, Geoffrey, Montevideo
 Clabaugh, Blanche, Remer
 Clabaugh, Clarence, Remer
 Clabaugh, Neva, Remer
 Clausen, Thorvald, Askov
 Cleland, Dora, Merriam Park
 Coe, Guy, Medford
 Cook, Merlin, North Branch
 Cooley, Annie, Stanchfield
 Cooper, Myron, Spring Valley
 Cooper, Robertta, West Concord
 Cooper, Zena, Mantorville
 Currie, Sidney, Hinckley
 Currier, Frances, Mantorville
 Dahlen, Walter, Cokato
 Dahlin, Violet, Isanti
 Dahlman, Florence, Grandy
 Dahms, Oscar, Morgan
 Daly, Philip, Rosemount
 Danielson, Lillian, Isanti
 Darling, Phoebe, Aitkin
 Darr, Harold, Minneapolis
 Davis, Hattie, Clear Lake
 Davis, Kenneth, Plainview
 Davis, Lloyd, Anoka
 Dawson, Louise, West Concord
 DeMars, Arthur, Maple Lake
 Debner, Regina, Lester Prairie
 Deel, Kenneth, Shakopee
 Degona, Lee, Le Sueur Center
 Degona, Rose, Le Sueur Center
 Derry, Lynn, Braham
 Devenny, George, Shakopee
 Devold, Oscar, Belgrade

Dickinson, Rollin, Le Sueur Center
 Drahos, Jerry, Hutchinson
 Dressel, Lydia, Hutchinson
 Dressel, Walter, Hutchinson
 Driste, Alfred, Litchfield
 Driste, Willie, Litchfield
 Drongerson, Carrie, Minneapolis
 Dunn, Stewart, Hermann
 Duxbury, Douglas, Harmony
 Eastlund, Evelyn, Isanti
 Eastlund, Myra, Isanti
 Eastman, Clarence, Merriam Park
 Eastman, Everett, Merriam Park
 Ebeling, Roy, Owatonna
 Edkland, Irving, Askov
 Edblad, Eben, Cambridge
 Edblad, Ingeborg, Cambridge
 Edwards, Lucille, Mora
 Ehlers, Celia, Monterey
 Ek, Gladys, Cokato
 Eklund, Richard, Stanchfield
 Ekstrand, Lillian, Cokato
 Ekstrom, Esther, Cannon Falls
 Ekstrom, Nels, Cannon Falls
 Emme, Lillian, Glencoe
 Endblom, Hazel, Princeton
 Endblom, Nels, Princeton
 Engelsem, Summer, LeRoy
 Engstrom, Albert, Cambridge
 Engstrom, Emma, Cambridge
 Enquist, Lillie, Isanti
 Enz, Mark, Frontenac
 Erickson, Ada, Constance
 Erickson, Albert, Stanchfield
 Erickson, Bertha, Owatonna
 Erickson, Edith, Isanti
 Erickson, Edwin, Milaca
 Erickson, Florence, Lester Prairie
 Erickson, George, Isanti
 Erickson, Joyce, Goodhue
 Erickson, Mabel, Braham
 Erickson, Terrel, Red Wing
 Erickson, Verna, Red Wing
 Erickson, Vincent, Goodhue
 Erickson, Vivian, Braham
 Erkel, Elmer, Le Sueur Center
 Emick, Henry, Plato
 Esping, Myrtle, Waseca
 Essen, Clifford, Cambridge
 Fackler, Irving, Aitkin
 Falconer, Harry, Hutchinson
 Falconer, Ray, Hutchinson
 Farrar, Merriam, White Bear Lake
 Felland, Edwin, Harmony
 Fiegel, Elsie, Albert Lea
 Fiegel, Milton, Rochester
 Filk, Ray, Biscay
 Finch, Cornwell, Spring Valley
 Fischbach, Glenn, Harmony
 Fisk, Wyman, Plainview
 Fixen, Elmer, Morgan
 Flemming, Albert, Garden City
 Flemming, Edgar, Garden City
 Flickinger, Herman, Braham
 Flormoe, Luther, Cannon Falls
 Fox, Dorothy, Monterey
 Fredden, Gordon, Isanti
 Fredrickson, Harry, Darling
 Frees, Jens, Barnum
 Friday, George, Stanchfield
 Froemming, Harry, Hutchinson
 Froemming, Robert, Hutchinson
 Frolick, Evelyn, Montgomery
 Fynskoo, Lowell, Owatonna
 Fynskoo, Stanley, Owatonna
 Gabbert, John, Minneapolis
 Gabel, Ila, Grandy
 Gaffany, Clarence, Glenwood
 Gall, Frieda, White Bear
 Gehl, Florence, Chaska
 Gerard, Edith, Cokato
 Gerdin, Florence, Cambridge
 Geselius, Laurence, Isanti
 Gievenhain, Gladys, Robbinsdale
 Gigley, Eddie, Anoka
 Gilbertson, Almer, Grand Marais
 Gisel, Lela, West Concord
 Glaeser, Martha, Chaska
 Gove, George, Red Wing
 Graham, Charles A., Remer
 Graner, John, Plainview
 Graupman, Edward, Plato
 Graves, Frank, Dodge Center
 Greenhagen, Fred, Howard Lake
 Gregerson, Harry, Harmony
 Groth, Edwin, Brownton
 Groth, Walter, Brownton
 Gruber, William, Welch
 Grundman, Gertrude, Owatonna
 Grunklee, Harvey, Claremont
 Gunning, J. A., Wanda
 Haase, Harold, Rochester
 Hagen, Henry, Glencoe
 Haggberg, Howard, Isle
 Hagman, Myrtle, Cannon Falls
 Haines, Clarence, Owatonna
 Haines, Harry, Owatonna
 Halden, Edith, Isanti
 Halden, Elsie, Isanti
 Halden, Emil, Isanti
 Halden, Mrs. Peter, Isanti
 Halden, Richard, Isanti
 Haling, Otto, Rochester
 Hallgren, Nels, Minneapolis
 Halvorson, Andrea, Remer

Halvorson, Olvin, Mahnomen
 Halvorson, Helmer, Mahnomen
 Hamilton, Russell, White Bear
 Hammargren, Philip, North Branch
 Handlos, Ethel, White Bear
 Hannigan, Leonard, Le Sueur Center
 Hanson, Agnes, Stanchfield
 Hanson, Andrew, Albert Lea
 Hanson, Clement, Barnum
 Hanson, Frances, Stanchfield
 Hanson, Gerhard, Minneapolis
 Hanson, Inez, Montevideo
 Hanson, Reuben, Grandy
 Hanson, Ruth, Grandy
 Harrison, Gordon, Barnum
 Harth, Gerald, Hinckley
 Hartkoft, Reuben, Osseo
 Hartman, George, Shakopee
 Haseltine, Horace, Excelsior
 Haugen, Halvor, Montevideo
 Hayes, Donald, Medford
 Hed, Ethel, Grandy
 Hed, Le Roy, Grandy
 Hedstrom, Signe, Dalbo
 Henderson, Norman, Lime Springs, Iowa
 Hendrickson, Ralph, Kimball
 Henning, Minnie, New Germany
 Herman, Mervin, Minneapolis
 Herman, Mildred, New Brighton
 Hesli, Emma, Merriam Park
 Hess, Chester, Belgrade
 Hess, Merritt, Belgrade
 Hibben, John Grier, Dalbo
 Higgins, Charles, Hutchinson
 Hiller, Mary, North Branch
 Hillig, Clements, Morgan
 Hixon, Mrs. M. B., Cambridge
 Hoeft, Orville, Stewart
 Hoffland, Halvor, Montevideo
 Hoiness, Melvin, Harmony
 Hollister, Clifford, Medford
 Hollister, K., Morristown
 Holm, Arvid, Dalbo
 Holmberg, Anna, Isanti
 Holmberg, Randolph, Cambridge
 Holmberg, Worthie, Cambridge
 Holmlade, Violet, Isanti
 Horsch, Edwin, Delano
 Horton, Roy, North Branch
 Howe, Elizabeth, Hopkins
 Howe, Erwin, Glencoe
 Humble, Henry, Isanti
 Humble, Theodore, Isanti
 Hunn, Leo, Mantorville
 Hunn, Mary, Mantorville
 Huschke, Herbert, Morgan
 Iverslie, Philip, Belgrade
 Iverson, Irene, Audubon
 Jacobs, Hildegard, Chaska
 Jacobson, George, Audubon
 Jacobson, Renel, Waseca
 Jahreiss, Verno, Owatonna
 Janovsky, Harvey, Le Sueur Center
 Janson, William, Askov
 Jarrett, Alton, Eden Prairie
 Jchoen, Phyllis, Owatonna
 Jenson, Alfred, Hutchinson
 Jenson, Alvin, Hutchinson
 Jenson, Andrea, Belgrade
 Jenson, Clara, Belgrade
 Jenson, James, Minneapolis
 Jenson, William, Belgrade
 Jewell, Earl, Randall, Wis.
 Joesten, Theodore, Owatonna
 Joesting, Frederick, Owatonna
 Johnson, Albert, Forreton
 Johnson, Clara, Cambridge
 Johnson, Clarence, Cokato
 Johnson, Dena, Mound
 Johnson, Edith, Princeton
 Johnson, Edwin, Litchfield
 Johnson, Ella, Montevideo
 Johnson, Elmer, Maynard
 Johnson, Elmer, Forreton
 Johnson, Frances, Waseca
 Johnson, George, Dalbo
 Johnson, Hazel, Osseo
 Johnson, Helen, Forreton
 Johnson, Herbert, Cokato
 Johnson, Hjalmer, Bovey
 Johnson, Inez, Waseca
 Johnson, John, Princeton
 Johnson, Lillian, Cambridge
 Johnson, Milton, Cokato
 Johnson, Murette, Waseca
 Johnson, Nels, Cokato
 Johnson, Olive, Cokato
 Johnson, Robert, Milaca
 Johnson, Selmer, Rochester
 Johnson, Vern, Cokato
 Johnson, Walter, Excelsior
 Johnson, Walton, Braham
 Johnson, William, Stewart
 Jones, Clarence, Medford
 Jones, Ruby, Medford
 Jonk, John, Raymond
 Jorgenson, Albin, Hutchinson
 Jorgenson, Clarence, Ellendale
 Jorgenson, John, Hutchinson
 Jorgenson, Julius, Audubon
 Jorgenson, LeRoy, Askov
 Jorgenson, Thorvald, Audubon
 Joseph, Harvey, Owatonna
 Judin, Laurence, Dalbo
 Jurgenson, Walter, Hutchinson
 Kaplan, Harvey, Owatonna
 Kauth, Charles J., Lovetto
 Kauth, Frances, Robbinsdale

Kehoe, Virginia, Claremont
 Kelley, Homer, Gladstone
 Kerrik, Albena, Silver Lake
 Kerster, Evelyn, New Brighton
 Kester, Harold, Hutchinson
 Keyes, Everett, Excelsior
 Kienitz, Levine, Cambridge
 King, Harry, Long Prairie
 Kirkwood, Ellen, Robbinsdale
 Kirkwood, Thomas, Robbinsdale
 Klammer, Harold, Hutchinson
 Klefsaas, Gustav, Madison
 Kloos, Luella, Chaska
 Klopfeisch, Leslie, Brownston
 Klucan, Richard, Howard Lake
 Koalska, Della, Merriam Park
 Koenig, Arthur A., Plainview
 Kolars, James, Montgomery
 Kolin, Freda, Minneapolis
 Koontz, Walter, Fairmont
 Korista, Margaret, Silver Lake
 Kosmoski, Thomas, Medford
 Kothrad, Edwin, Rogers
 Kovaleski, Joseph, Medford
 Kozel, Bessie M., Montgomery
 Kozel, Bessie R., Montgomery
 Kozel, Mary, Montgomery
 Kramer, Raynole, Owatonna
 Krassin, Adeline, Waseca
 Kroppen, Bertha, Plato
 Kruse, Raymond, Mankato
 Kuehn, Elmer, Wanda
 Lageson, Julian, Ellendale
 Laird, Bernee, Two Harbors
 Lamperd, Irl, Belmont
 Landberg, Clayton, Milaca
 Landy, George, Isanti
 Landy, Margaret, Isanti
 Lapham, David, White Bear
 Larson, Albert, Cambridge
 Larson, Alice, Cambridge
 Larson, Arthur, Robbinsdale
 Larson, Dallas, Grandy
 Larson, Edwin, Dalbo
 Larson, Elsa, Grandy
 Larson, Ernest, Cambridge
 Larson, Evall, Stanchfield
 Larson, Floyd, Grandy
 Larson, Hazel, New Brighton
 Larson, Hurby, Isanti
 Larson, Louis C., Princeton
 Larson, Marvin, Isanti
 Larson, Mildred, Cambridge
 Larson, Wilbur, Cambridge
 Laske, Steve, New Brighton
 Laugeson, Lyder, Hutchinson
 Laughlin, Edwin, Owatonna
 Laughlin, Ruth, Spring Valley
 La Vere, Leonard, Fairmont

Law, Elsie, White Bear Lake
 Leach, Lawrence, Owatonna
 Leach, Raymond, Princeton
 Leaf, Birdie, Dalbo
 Lee, George, Medford
 Lee, Jessa, Owatonna
 Lee, Katherine, Clearwater
 Lee, Orrin, Medford
 Lee, Ross, Medford
 Leech, Roy, Round Prairie
 Lefavor, Laurence, Cambridge
 Lefavor, Lloyd, Cambridge
 Lehman, Russell, Minneapolis
 Lehne, Cora, Audubon
 Lehne, Ethel, Audubon
 Leier, William, New Brighton
 LeKander, Ruby, Cokato
 Lenartz, George, Shakopee
 Lennon, Mark, Owatonna
 Lennon, Reinhard, Owatonna
 Lenvik, Harold, Minneapolis
 Lenzmeir, Edwin, Shakopee
 Leovsky, Thomas, Delano
 Lesch, Arthur, Fairmont
 Levander, Edwin, Cambridge
 Lind, Ethel B., Cambridge
 Lind, Theodore, Cambridge
 Lindahl, Edith, Robbinsdale
 Lindahl, Ethel, Robbinsdale
 Lindholm, Signe, Isanti
 Lindig, Gladys, Merriam Park
 Lindquist, Roger, Minneapolis
 Loftos, Elmer, Merriam Park
 Long, Edith, White Bear Lake
 Lord, Kenneth, Tracy
 Lord, Vincent, Tracy
 Lorenz, Fritz, Mayer
 Lough, Lora, Jordan
 Lough, Walter, Jordan
 Lovos, Gladys, Merriam Park
 Lucas, Robert, Jr., Eden Prairie
 Luger, Douglas, Osseo
 Luger, Gordon, Osseo
 Lull, Luverne, Owatonna
 Lund, Anna, Bethel
 Lund, Harold, Minneapolis
 Lund, Willie, Bethel
 Lundberg, Roy, Herman
 Lundeen, Ethel, Isanti
 Lundeen, Fredolph, Isanti
 Lundgren, Howard, Isanti
 Lundgren, Myrtle, Cambridge
 Lundgren, Raymond, Isanti
 Lundquist, Ernest, Litchfield
 Lundquist, Villa, Kandiyohi
 Lundquist, Wilton, Kandiyohi
 Lundstedt, John, Cambridge
 Lynn, Elsie, New Germany
 McCinnis, Cabot, Medford

McClean, Willis, Howard Lake
 McCullough, H. D., St. Paul
 McElroy, James, White Bear Lake
 McGorgen, Gehard, New Richmond
 McGrath, Eugene, Owatonna
 McHarman, Joseph, Waldorf
 McKenney, Clifford, Cambridge
 McKenney, Levi, Cambridge
 McKeown, Gilbert, Medford
 McMahan, Leo, Spring Valley
 McMenony, Francis, Rosemount
 McMullen, Bertise, Shakopee
 Madigan, Russell, Maple Lake
 Madison, Richard, Ellendale
 Maetsold, Henry, Litchfield
 Maffett, Earl H., Hutchinson
 Magler, Herbert, St. Paul
 Magler, Mark, St. Paul
 Majzner, Frank, Hutchinson
 Malchow, Vivian, Wilder
 Malquist, Jerome, Litchfield
 Malthus, Mildred, Rich Valley
 Mandell, Olive, Faribault
 Mann, Edward, Brownton
 Manning, Henry, Litchfield
 Marchent, George, Morgan
 Markytam, Charles, Owatonna
 Martinson, Leroy, New Richland
 Mattson, Arthur, Cokato
 Mattson, Clifford, Isanti
 Mattson, Geneva, Cambridge
 Mattson, Janell, Braham
 Mattson, Nels, Dalbo
 Mattson, Warner, Dalbo
 Mayne, Dexter, Maple Lake
 Mayne, Nellie, Maple Lake
 Mead, Doris, Fulda
 Mears, Harold E., Le Sueur Center
 Medeen, Effie, Braham
 Medin, Arnold, Grandy
 Medin, Russell, Grandy
 Meinke, Howard, Biscay
 Melin, Earl, Red Wing
 Melin, Ernest, Springvale
 Melin, Raymond, Isanti
 Mellin, Oscar, Howard Lake
 Mercer, W. L., Rochester
 Mergens, Edward, Excelsior
 Merritt, Bruce, Hinckley
 Meiers, Herbert, Merriam Park
 Mickelson, Gladys, Braham
 Mickelson, Leonard, Detroit
 Miller, Helmath, Waldorf
 Miller, Lyle, Fairmont
 Miller, Marie, Eden Prairie
 Miller, Milo, Blue Earth
 Miller, Norman, Eden Prairie
 Miller, Ordalia, Fulda
 Miller, Rinhart, Herman
 Miller, Roy, Herman
 Mitchell, Irwin, Eden Prairie
 Molenaar, Martin, Raymond
 Moll, Alvin, Sleepy Eye
 Moran, Evelyn, Eden Prairie
 Moran, Ida, Eden Prairie
 Moran, Myra, Eden Prairie
 Morell, Agnes, Grandy
 Morken, Arthur, Herman
 Morken, Hiram, Herman
 Mosman, Preston, Monticello
 Mosvack, Holger, Askov
 Mullins, Emmet, Hinckley
 Munger, Clarence, Minneapolis
 Mungsen, Dorothy, Stanchfield
 Munro, Angus, Shakopee
 Munson, Arne, New Germany
 Murray, Grace, Clearwater
 Murray, Helen, Clearwater
 Naegeli, Victor, Hutchinson
 Napp, Annie, West Concord
 Navratil, Charlie, Biscay
 Neddersen, Lora, Anoka
 Nedderson, Roy, Anoka
 Nelson, Charlie, Isanti
 Nelson, Earl, Medford
 Nelson, Harold, New Germany
 Nelson, Harry, Constance
 Nelson, Levi, Grandy
 Nelson, Marvin, Hutchinson
 Nelson, Roy, North Branch
 Nelson, Stanley, Stanchfield
 Nelson, Thelma, Stanchfield
 Nelson, Theodore, Braham
 Nesbitt, Walter, Eden Prairie
 Newman, Hannah, Cokato
 Newman, Oscar, Cokato
 Nickerson, Merton, Good Thunder
 Nielson, Elsie, Hinckley
 Nolby, Fredolph, Braham
 Nolby, Kenneth, Braham
 Norberg, Alice, Isanti
 Nordstrom, Mamie, Wegdahl.
 Norman, Adolph, Hallock
 Norman, Ralph, Cambridge
 Novell, Forrest, Isanti
 Novotany, Frank, Montgomery
 Nuesch, Frances, Welcome
 Numamaker, Harry, Plainview
 Nyberg, Mildred, Isanti
 Nyberg, Myrtle, Isanti
 Nyquist, Herbert, Isle
 Nyquist, Rudolph, Cokato
 Nyquist, Rudolph H., Cokato
 O'Neil, John, Maple Lake
 O'Toole, Theodore, Morgan
 Okerstrom, Frances, Isanti
 Okerstrom, Roy, Cambridge
 Okerstrom, Vernie, Isanti

Olson, Alfred, Harmony
 Olson, Alfred, Isanti
 Olson, Alvina, Cokato
 Olson, Eben, Cambridge
 Olson, Gerald, Harmony
 Olson, Ida, Isanti
 Olson, Ina, Belgrade
 Olson, Merle, Maynard
 Olson, Myrtle, Braham
 Olson, Paul, Eden Prairie
 Olson, Wesley, Isanti
 Opplider, Louise, Forest Lake
 Opplider, Robert, Forest Lake
 Osmundson, Sterling, Dawson
 Ostberg, Alice, Isanti
 Ostberg, Reuben, Isanti
 Otting, Howard, Herman
 Oversen, Maude, Merriam Park
 Paddock, Albert, Kimball
 Palm, Clarabel, Princeton
 Palm, Mabel, Princeton
 Palmby, William, Dover
 Palmquist, Theodor, Cokato
 Parsons, Sydney, Owatonna
 Paschke, Luella, Blue Earth
 Paschke, Milton, Blue Earth
 Pascoe, Trueman, Medford
 Patterson, Albert, Madison
 Paulbitske, William, Merriam Park
 Pearson, Arthur, Dalbo
 Pearson, Richard, Grandy
 Pearson, William, Dalbo
 Pencille, Annie, Hammond
 Pencille, Seward, Hammond
 Pendergast, Webster, Hutchinson
 Pentz, Mildred, Faribault
 Perron, Edward, New Brighton
 Perron, Harry, New Brighton
 Pestios, Doras, Albert Lea
 Peters, Anita, White Bear Lake
 Peterson, Albert, Madison
 Peterson, Anker, Askov
 Peterson, Arlene, Stanchfield
 Peterson, Arthur, Hutchinson
 Peterson, Carl R., Askov
 Peterson, Clifford, Cokato
 Peterson, Earl, Owatonna
 Peterson, Edna, Askov
 Peterson, Einar, Springvale
 Peterson, Filmore, Cokato
 Peterson, George, Renville
 Peterson, Guy, Owatonna
 Peterson, Leroy, Hartland
 Peterson, Myrtle, Braham
 Peterson, Odell, Stanchfield
 Peterson, Oliver, Harmony
 Peterson, Roscoe, Isanti
 Peterson, Rudolph, Askov
 Peterson, Winifred, Stanchfield
 Petter, Jackson, Herman
 Pexa, Sylvia, Montgomery
 Pfeifer, Catherine, Montgomery
 Pfeifer, Edward, Iverson
 Pfeifer, Peter, Iverson
 Phelps, Andrew, Waseca
 Phelps, George, Merriam Park
 Phillips, Leslie, Excelsior
 Pieper, Herbert, Maynard
 Pinney, Charles, Montgomery
 Plaisance, Arthur, Stewart
 Playle, Albert, Elk River
 Potthoff, Carl, Jordan
 Preescel, William, Medford
 Prendergast, Betty, Le Sueur
 Prentiss, Beatrice, Mantorville
 Prestige, Donald, Montrose
 Priebe, Ellen, Waseca
 Prigge, Walter, Howard Lake
 Prosch, Wesley, Sleepy Eye
 Prothero, David, Herman
 Racey, Elizabeth, Owatonna
 Radintz, Alfred, Osseo
 Rahm, Clifton, Rochester
 Ramey, Mary, Maple Lake
 Rasmussen, Leonard, Brownton
 Rauschendorfer, Edward, Winsted
 Reddemann, Ekly, Le Sueur Center
 Reddemann, Mile, Le Sueur Center
 Redner, Alfred, Eden Prairie
 Reed, Curtis, Comfrey
 Reed, Everett, Comfrey
 Reio, Joe, Shakopee
 Remus, Robert, Long Prairie
 Reynolds, Alice, Minneapolis
 Rice, LeRoy, Isanti
 Rice, Lloyd, Minneapolis
 Rich, Lillian, Maple Lake
 Riley, John, Wanda
 Rippey, Verl, Cambridge
 Rissell, Frank, Cambridge
 Rissell, Gladys, Cambridge
 Rockenbach, Almoretta, Faribault
 Rockwood, Wayne, Owatonna
 Rogers, Harry, Eden Prairie
 Rood, Perry, Herman
 Roseland, A. J., Braham
 Russell, Irving, White River Falls
 Ryan, Cecil, Cedar
 Rystrom, Benjamin, North Branch
 Rystrom, Paul, North Branch
 St. Clair, William, Owatonna
 Sabathe, Arthur, Spring Valley
 Sadler, James, Eagle Lake
 Sandberg, Walford, Isanti
 Sandell, Hazel, Princeton
 Sandhow, Theodore, Robbinsdale
 Sandum, Mark, Villard
 Sasse, Laurence, Sleepy Eye

Sather, Kenneth, Hutchinson
 Schacht, Mabel, Merriam Park
 Schaefer, Irving, Maple Lake
 Schatz, Paul, Brownton
 Schawmburg, Ortwin, Lester Prairie
 Scheidegger, Oscar, Mayer
 Schifsky, Aldan, White Bear
 Schifsky, Bernard, White Bear
 Schiltgen, Aloysius, Oakdale
 Schmidt, Lillian, Hamel
 Schmidt, Martha, Belgrade
 Schmidt, Myrtle, Robbinsdale
 Scholer, Grace, Zumbro Falls
 Schouweiler, Anthony, Kellogg
 Schreiber, Marion, Osseo
 Schreiber, Nora, Osseo
 Schubert, Reuben, Dunnell
 Shuck, Roy, Excelsior
 Shuck, Wendell, Excelsior
 Schuft, Elmer, Hutchinson
 Schugren, Sybil, Isanti
 Schugren, Walter, Cambridge
 Schultz, Clara, New Brighton
 Schultz, Clarence, Sleepy Eye
 Schultz, George, Winnebago
 Schumacher, John, Merriam Park
 Schwaback, Harold, Plainview
 Scott, Lester, Zumbrota
 Searles, Carrie, Ashby
 Searles, Lyle, Ashby
 Seath, Manford, Hartland
 Selene, Oscar, Isanti
 Shand, Charles, Maynard
 Shaver, Gladys, Mantorville
 Shea, Mabel, Le Sueur Center
 Shehan, Catherine, Montgomery
 Shephard, Glenn, Mantorville,
 Sheppard Hal, Hutchinson
 Shereda, Edith, Silver Lake
 Shereda, Rose, Silver Lake
 Shugren, Ole, Springvale
 Shuman, Peter, Maynard
 Sigfridson, Sigard, Cokato
 Sinclair, Homer, Rochester
 Sjoberg, Herbert, Braham
 Sklanar, Edward, Montgomery
 Skluzacek, Albert, Maple Lake
 Skoglund, Clarence, Cambridge
 Skogman, Rudolph, Cambridge
 Smith, Allegra, Faribault
 Smith, Anna, Minneapolis
 Smith, Florence, Braham
 Smith, Francis M., St. Paul
 Smith, Nellie, Robbinsdale
 Sohlberg, Mildred, Dalbo
 Solberg, Ingeborg, Le Sueur Center
 Solberg, Iva, Le Sueur Center
 Sollman, B. G., Cokato
 Solveson, H. N., Audubon

Sorenson, Alek, Stanchfield
 Sorenson, Ernest, Hutchinson
 Sorenson, Henry, Hutchinson
 Spaulding, Paul, Wanda
 Springer, Mildred, Zumbro Falls
 Stade, Louis, Dunnell
 Stahmer, Loren, Owatonna
 Stai, Alice, Isanti
 Stake, Evaline, Grandy
 Stanius, Arthur, Isanti
 Stanton, Charles, Owatonna
 Starr, Merrill, Tracy
 Starry, Walter, Glencoe
 Steele, Hulda, Alden
 Steele, Stanley, Merriam Park
 Stein, George, Claremont
 Stenius, Milton, Isanti
 Stensrud, Henry, Hartlund
 Sterner, Joe, New Germany
 Stockman, Emma, Plato
 Stoebe, Blanche, Odin
 Stone, Alvin, Isanti
 Stone, Hilda, Isanti
 Stoneberg, Rodney, Grandy
 Storaker, Petra, Montevideo
 Strobel, G. A., Plainview
 Strobel, Laura, Minneapolis
 Stroud, Harold, Braham
 Sundberg, Alida, Isanti
 Sundberg, Ina, Isanti
 Sundberg, Mayford, Cambridge
 Sutter, Annund, Isanti
 Swanson, Carl, North Branch
 Swanson, Emma, Bethel
 Swanson, Henry, Isanti
 Swanson, Ralph, Welch
 Swenson, Clifford, Isanti
 Swenson, Hilding, Winthrop
 Syhl, Philip, St. Paul
 Tadsen, Paul, Brownton
 Tapley, Cletus, Le Sueur Center
 Tapley, Frank, Le Sueur Center
 Tapley, Richard, Le Sueur Center
 Tass, Leo, Hinckley
 Taylor, Mrs. Joe, Medford
 Taylor, Marie, Medford
 Taylor, Warren, Medford
 Tessman, Albert, Osseo
 Tessman, Raymond, Osseo
 Thirstein, Dorothy, Zumbro Falls
 Thirstein, Marjorie, Zumbro Falls
 Thompson, James, Good Thunder
 Thompson, John, Maynard
 Thompson, Vernon, Shakopee
 Thompson, William, Maynard
 Tilden, Harstad, Harmony
 Tilden, Pearl, Dodge Center
 Timms, Mrs. C. J., Fairmont
 Tollefson, Alice, Waseca

Tonjum, Arthur, Owatonna
 Tracy, Edward, Rosemount
 Trapp, Effie, Dodge Center
 Treacy, Evalyn, Albert Lea
 Treichel, Albert, Springvale
 Treichel, Blanche, Springvale
 Treichel, Louise, Springvale
 Trites, Flora, Winona
 Troalstrup, Archie, Belgrade
 Truedson, Hulda, Grandy
 Truedson, Ruth, Grandy
 Truitner, Clifford, Dodge Center
 Truitner, Ethel, Claremont
 Tschumber, Roy, Winona
 Twait, Roy, Wilder
 Ulinder, Henning, Oxford
 Uppgren, Emerald, Isanti
 Usher, Harry, Stanchfield
 Usher, Lester, Stanchfield
 Venables, Paul, Plainview
 Vold, Rudolph, Maynard
 Volkman, Grant, Brownton
 Vollrath, Edward, Dunnell
 Wagoner, Carlton, Rochester
 Wagoner, Joe, Rochester
 Ward, Bernice, Isanti
 Wareham, Raymond, Maynard
 Warner, Ruth, White Bear Lake
 Washburn, Harold, Elk River
 Webb, Lola, Osseo
 Webb, Warren, Princeton
 Weber, Reuben, Blue Earth
 Wedge, Clarence, Plainview
 Wegner, Victor, Owatonna
 Weigle, Malcom, Plainview
 Welte, Arthur, Big Fork
 Werder, Edward, Litchfield
 Werness, George, Cokato
 Westerlund, Carol, Cokato
 Westerman, Arnold, Montgomery
 White, Agnes, Anoka
 White, Mary, Anoka
 Whitney, Donald, Le Sueur Center
 Wickstrom, Mabel, Isanti
 Wilkins, Luellyn, Herman
 Williams, Donald, Lewiston
 Wilson, Raymond, Litchfield
 Wilson, Sidney, Austin
 Wirt, Elmer, Lewiston
 Wolhart, Reuben, St. Cloud
 Wondra, George, Montgomery
 Wood, Holly, White Bear
 Wood, Lester, Plainview
 Woodbury, Cyrus, Marietta
 Wright, Ida, Isanti
 Wyman, Louise, Dodge Center
 Yackel, Bertha, Le Sueur Center
 Yackel, Martha, Le Sueur Center
 Yngve, Edmund, Cambridge
 Youngren, William, Barnum
 Yust, Elsie, Medford
 Zander, Edwin, Howard Lake
 Zander, Frank, Howard Lake
 Zeik, Arthur, Hutchinson
 Zentic, Frank, Merriam Park
 Zentic, Louise, Merriam Park
 Zibell, Olga, Merriam Park
 Zieger, La Zella, Owatonna
 Zimmerman, Alexander, Anoka
 Zimmerman, Arthur, Anoka
 Zimmerman, Erna, Anoka
 Zimmerman, Hazel, Anoka
 Zupp, William, Blue Earth

Traction Engineering School, 1916—26

Benton, Joseph S., Rochester	Johnson, Joseph, New Richmond
Bremer, John, Lake City	Johnson, Walter, St. Paul
Chance, Horace C., Minneapolis	Knutson, P. M., Belgrade
Chilson, Norman, Elbow Lake	Kootstra, Dewey, Hannibal, Wis.
Elmgreen, August, Minneapolis	Kremer, C. E., Duluth
Fichtinger, Leo J., Freeport	Long, Donald, White Bear
Gjerlow, A. B., St. Paul	Lueders, George, Otter Tail
Goplen, Martin, Zumbrota	Mead, Stanley H., White Bear
Hill, Glen W., Cook	Reiner, Joseph I., Stewart
Hinde, Ralph H., Struble, Iowa	Schroeder, Ernest, West Liberty, Iowa
Hirth, George, Esple	Swift, Ray, Sioux Falls, S. D.
Johnson, Allan M., Glenwood	Wanous, Rufas, Hutchinson
Johnson, Barney, Alvarado	Wolff, Allen E., Minneapolis

Teachers' Training School, 1916—1,142

Aaby, Stella E., Kasson	Ackman, Lydia, Faribault
Abernathy, E. Virginia, Faribault	Akermark, Elma, Grantsburg, Wis.

Akermark, Flora, Grantsburg, Wis.
 Amundson, Grace, Blooming Prairie
 Amundson, Louise, Delano
 Anderson, Alice M., Butterfield
 Anderson, Anna Alvera, Hinckley
 Anderson, Anna H., Forest Lake
 Anderson, August K., Braham
 Anderson, Mrs. Carrie E., St. Paul
 Anderson, Ethel P., Forest Lake
 Anderson, Hattie V., Hector
 Anderson, Helen Anna, Mora
 Anderson, Ida M., Forest Lake
 Anderson, Jessie Melvina, Adams
 Anderson, M. Esther, Minneapolis
 Anderson, Mabel E. C., St. Paul
 Anderson, Mabel S., International Falls
 Anderson, Marie, South Stillwater
 Anderson, Richard H., St. Peter
 Anderson, Theodore O., Rushford
 Anderson, Vivian, Brainerd
 Andresan, Lily J., Franklin
 Angell, Laurentine, St. Paul
 Archerd, Essie, Dodge Center
 Armstrong, Agnes, Minneapolis
 Arnold, Margaret, Crookston
 Arnold, Mary S., Crookston
 Arny, Amelia E., Newport
 Arries, Alta, Crookston
 Athan, Mary E., Woodstock
 Aydt, Erna, St. Paul
 Baer, Bessie T., Baraboo, Wis.
 Baker, Etta M., Verndale
 Paldwin, Drusilla S., Willmar
 Bambery, Stella, St. Paul
 Banks, Rose, Wausa, Neb.
 Barber, Mabel R., Watertown
 Barker, Mae L., Stillwater
 Barrett, James, Minneapolis
 Bartel, Elma, Kasson
 Bartelt, Alma, Faribault
 Bartholomew, Agnes, Minneapolis
 Barton, Emily, Silver Lake
 Batdorf, Eunice, Minneapolis
 Bauer, Barbara, Cove
 Beaty, Pearl, Clinton
 Becher, Magdalena E., Pine City
 Beck, Tillie, Heron Lake
 Becksted, Ina, Hinckley
 Beede, Ella M., Park Rapids
 Bell, Oliver A., Litchfield
 Bement, Freda E., Hubbard
 Bennett, Eunice G., Oklee
 Benninger, Elizabeth, Savage
 Benson, Alice E., St. Paul
 Benson, Anna J., Princeton
 Benson, Mabelle, Princeton
 Bergeron, Irene A., Minneapolis
 Berglund, Elizabeth, Hopkins
 Berglund, Gunnar A., Hopkins
 Bergman, Hildur, Minneapolis
 Bergquist, Ebba C., Chisago City
 Bergsland, Halfdan L., Red Wing
 Bernhard, Mrs. Cora, Minneapolis
 Best, Blanche, Lakefield
 Bethke, Myrta M., Rochester
 Bichner, Anna, Stillwater
 Biehl, Emma, Barnum
 Bierlein, S. W., Renville
 Bigelow, Bertha M., Dodge Center
 Bighley, Cecile I., Northwood
 Bird, Jennie M., Bethel
 Bixby, Gertrude N., Richville
 Bixby, Jacob W., Richville
 Bjorklund, Frieda M., Buffalo
 Bjornstad, Emma, Richville
 Blackwell, Adeline S., Lowry
 Blanchard, Mary T., Farmington
 Blesener, Tressa, Northfield
 Block, Olga W., Marietta
 Blomquist, Augusta J., Pelan
 Bloom, Ann C., Center City
 Boan, Emma, Shakopee
 Bodene, Agnes C., St. Paul
 Boehme, Emma C., New Prague
 Boettcher, Louise J., Waconia
 Bondurant, Grace, Alexandria
 Borene, Vera, Newport
 Borgeson, R. Esther, Mora
 Borman, R. R., Abercrombie, N. D.
 Bornholt, Mary C., Rush City
 Bouchard, Amelia G., New Ulm
 Bowles, Mrs. Tryphena, Duluth
 Boyce, Blanche, Farmington
 Braathen, S. Amelia, Halma
 Bradford, Beulah L., St. Paul
 Bragg, M. Sophia, Bethel
 Brattin, Alma K., Annandale
 Braun, Sadie, Brownsville
 Bredlow, Marie, Faribault
 Bren, Clementine V., Hopkins
 Bren, Ellen, Eden Prairie
 Bresnahan, Anna, Lanesboro
 Bresnahan, Catherine, Lanesboro
 Brevig, Clara S., Houston
 Brigan, Harriett, Stillwater
 Britton, Linea H., Pillager
 Brobeck, Adeline M., Kenyon
 Broeffle, Ethel M., Minneapolis
 Brooks, Nellie F., Byron
 Brown, Helen M., Osseo
 Brown, Luella, Rogers
 Brown, Roy E., North Branch
 Brown, Thomas J., Rogers
 Brown, William A., Bigfork
 Bruning, George J., Sebeka
 Buehrer, Bertha E., St. Paul
 Ruell, Myra W., St. Paul
 Bullis, Everard J., St. Paul

- Burgstahler, Edith E., Buffalo Lake
 Burt, Ida Imogene, Minneapolis
 Bush, Cora B., Northfield
 Byers, Mae E., Hastings
 Byrne, Agnes, Kilkenny
 Byrne, Alice, Kilkenny
 Calkins, Susan M., Granada
 Callaghan, Nora A., Farmington
 Callister, Ella C., Skyberg
 Callaghan, Kate, Farmington
 Cameron, Loraine R., St. Paul
 Cameron, Vivian, Spooner
 Campion, Margaret, Jordan
 Capes, Grace A., South Haven
 Card, Evelyn M., Minneapolis
 Carlson, Hilda S., Princeton
 Carlson, Hulda A., Buffalo Lake
 Carlson, Paul E., Montrose
 Carlson, Mrs. Paul E., Montrose
 Carson, Elsie M., Mora
 Casey, Florence M., St. Paul
 Cates, Ethel L., Litchfield
 Cavanaugh, Laura B. D., St. Paul
 Centerwall, Christine, Minneapolis
 Chapman, F. W., Westbrook
 Chapman, Ida, Echo
 Cheney, Emily, Northfield
 Cherioli, Josephine, Stillwater
 Christensen, Alice M., Minneapolis
 Christenson, Inga, New Richland
 Christenson, Mae L., Rochester
 Christofferson, Emily, St. Paul
 Clarke, Eleanor, Cedar
 Clausen, Myrtle M., Minneapolis
 Clauson, Marie E., Kennedy
 Coby, Mary, Greaney
 Cody, Floss, Minneapolis
 Cole, Alice M., Wahkon
 Cole, Altie A., Wahkon
 Cole, Laura A., Pine City
 Collin, Mary, Sacred Heart
 Converse, Dorothy, South St. Paul
 Cook, Mrs. Cora A., Brainerd
 Cooper, Hermann, Fayette
 Cooper, Mabel G., Buffalo
 Corcoran, Mae M., Belle Plaine
 Cory, Anna C., St. Paul
 Cosgrove, Mary D., Green Isle
 Covell, Nellie N., Bemidji
 Craig, Janet A., St. Paul
 Crawford, Allie B., Watertown
 Croasdale, Mayme, International Falls
 Crook, Irene, Amboy
 Cupp, Wanda H., Mora
 Curtin, Elizabeth A., Fairfax
 Curtis, Alberta, Chicago, Ill.
 Curtis, J. B., Danvers
 Cutler, Pearl, Lismore
 Dahl, Inga M., Jasper
 Dalbey, Angie B. B., Minneapolis
 Danielson, Agnes E., Buffalo Lake
 Danielson, Nels L. F., Litchfield
 Davenport, Helen, Holloway
 Davis, Fannie M., Huron, S. D.
 Daw, Estella M., Rush City
 Day, Edna M., Amboy
 Deforth, Alma C., St. Paul Park
 Deibler, Effie M., Savage
 Delaney, Frances L., Lemmon, S. D.
 Dempsey, Winnifred B., Windom
 Dennis, Beulah E., Bagley
 Dennis, Lucile M., Bagley
 DeVaney, Ethel A., Minneapolis
 Dickey, Jennie E., Wayzata
 Dinwiddie, Cora E., Grand Rapids
 Dinwiddie, Grace E., Grand Rapids
 Doble, Ann E., Tracy
 Dodge, Jessie J., Spur
 Doe, Bertha, Beldenville, Wis.
 Doherty, R. S., St. Paul
 Dohle, Emma, Renville
 Dolan, Stacia E., New Albin
 Dominick, R. Blanch, Hopkins
 Donahue, Agnes J., Stewartville
 Donahue, Nellie, Clontarf
 Donaldson, Ruth V., St. Paul
 Donlon, Lauretta, Morton
 Donnersbach, Frances A., St. Paul
 Doran, Helen M., Kilkenny
 Doran, Mary, Currie
 Dorenkamper, Elizabeth, Lismore
 Dosey, Anna C., Pine City
 Dosseth, Mabel G., Sacred Heart
 Drewes, Josephine M., Spring Valley
 Dufwa, Nora, Pelan
 Dufwa, Thamar E., Pelan
 Dugan, Anna F., Brainerd
 Duncanson, Geneva, Byron
 Dunden, Ellen, St. Paul
 Dunkel, Marie, Hastings
 Dunn, Blanche L., Elbow Lake
 Dunn, Kathryn E., St. Paul
 Durand, Catherine F., Puposky
 Dykeman, Ruth, Dykeman
 Earley, Theresa B., Montrose
 Easton, Laura G., Wessington Springs,
 S. D.
 Easton, Ronelia A., Blooming Prairie
 Eckerman, Pauline, Montrose
 Ecklund, Martha, Aitkin
 Eddleston, Ethel, St. Paul
 Eddy, Beulah, Webster
 Edmond, Helen, Claremont
 Egan, Stella M., St. Paul
 Ekman, Edith E., St. Paul
 Ekman, Evelyn E., St. Paul
 Ekman, Gertrude, New Brighton
 Ellefson, Emma, Jackson

Ellertson, Fred, Eric
 Ellsworth, Henry C., Grand Marais
 Engen, Nels M., Warren
 Enger, Rachel R., Big Lake
 Engler, Emily, Randolph
 Engsell, Amy S., St. Paul
 Engsell, Esther A., St. Paul
 Ennis, Ethel I., Dundas
 Epple, Clara, New Ulm
 Erickson, Alma H., Hartland
 Erickson, Ida C., Topeka, Kan.
 Erickson, Judith A., Brainerd
 Erickson, Lillian C., Alexandria
 Erickson, Mabel, Hastings
 Erlandson, J. W., Plummer
 Ernster, R. Mary, Caledonia
 Eveslage, Benjamin, Melrose
 Eynck, J. F., Freeport
 Fahey, Anastasia C., Rich Valley
 Fairchild, Ida M., Bruno
 Fallman, Annie J., St. Hilaire
 Farrell, Margaret, St. Paul
 Fee, Grace, West St. Paul
 Feely, Margaret, Farmington
 Feetham, Nellie, St. Paul
 Feldhake, Mary, Montevideo
 Felien, Lulu E., Stanton
 Felling, Albert L., Wausau, Wis.
 Felton, E. Mae, Owatonna
 Fenderson, Eunice M., Cedar
 Ferch, Lydia A., Correll
 Finch, Nina B., Butterfield
 Fink, Anna D., Austin
 Finley, Gladys D., Brown Valley
 Finnegan, Alice E., Kilkenny
 Finnegan, Mae A., Kilkenny
 Fischer, Cassie L., Buffalo Lake
 Fisher, Fred H., Warba
 Fiskerback, Anna, Brooten
 Fiskerback, Barbara, Brooten
 Fiss, Amanda E., Gaylord
 Fitzpatrick, Elizabeth, Kilkenny
 Fitzpatrick, Rose, Kilkenny
 Flynn, Laura M., St. Paul
 Fogelberg, Selma, Hopkins
 Foley, Louise, Happyland
 Foley, Monica, St. Paul
 Forncrook, Mary E., Hinckley
 Forsberg, Agnes E., Minneapolis
 Forsberg, Ernest, Minneapolis
 Forsman, Alice V., St. Paul
 Fossum, Anna L., Moose Lake
 Forthun, Christine, Minneapolis
 Forthun, Gina, Minneapolis
 Franson, Lydia, St. Paul
 Frase, Clara A., Lorne
 Frazier, Amy E., Staples
 Frederickson, Helen W., St. Paul
 Froberg, Inga J., Minneapolis
 Frokjer, Agnes M., Askov
 Frost, Herbert J., Spring Grove
 Funke, Rose, Wabasha
 Furst, Katherine D., New Prague
 Fyrand, Tilda C., Kenyon
 Gaard, Sophia, Frost
 Gahring, Melba, Linden Hills
 Gallagher, Gertrude, St. Paul
 Gallagher, Mary, New Richmond, Wis.
 Gannon, Angela, Brooten
 Gannon, E. Agnes, Sedan
 Gassert, Muriel, Hokah
 Gates, Jeremiah, Menomonie, Wis.
 Gates, Louise M., Glencoe
 Gaustad, Clara A., Moose Lake
 Geehan, Mary E., Elko
 Gerding, Anna, Melrose
 Gerken, Anna, Herman
 Gerken, Gretchen J. H., Herman
 Geselius, Vera A., Cambridge
 Gessner, Anna, Plainview
 Getty, Ina G., Alpha
 Gibbons, Mrs. Laura, Minneapolis
 Gibbs, Fernie, New Auburn
 Gibson, Beatrice M., Minneapolis
 Gieriet, Helen R., Madelia
 Gilbertsen, Ella U., Grand Marais
 Gilchrist, Elvie S., Buffalo
 Gilchrist, Emma E., Minneapolis
 Gillies, Janetta L., Minneapolis
 Gillogly, Carol, Carlton
 Glover, Grace E., Racine
 Gluck, Mabel L., Minneapolis
 Glynn, Irene A., Savage
 Goss, Martha G., Cass Lake
 Gould, Bertha, Minneapolis
 Gould, Lule B., Hutchinson
 Gould, May, Minneapolis
 Grangaard, Olga, Waukon
 Gregg, M. H., Zumbro Falls
 Gregory, Walter F., St. Cloud
 Griffis, Capitola, Minneapolis
 Griswold, Katherine, Minneapolis
 Gronvall, Elsa M., Minneapolis
 Groskopp, Alice E., Grantsburg, Wis.
 Gross, Louise M., Morton
 Groth, Minnie, Wright
 Guimont, C. A., Dayton
 Guthormsen, Anna, Neenah, Wis.
 Haatvedt, Rachel, Calmar, Iowa
 Hackett, Maud, Waterville
 Hady, Eleanor, Pine City
 Haga, Peder A., Northwood
 Hagen, Sam, Northwood
 Hague, Sarah A., Spring Valley
 Haley, Theresa, Minneapolis
 Hall, Muriel M., Foxhome
 Hallan, Jarla O., Spring Grove
 Halverson, Edna M. T., Caledonia

- Halverson, Grace A., Baudette
 Haney, Ethel B., Hinckley
 Hankey, C. G., Helena, Ga.
 Hansen, Adella, Farmington
 Hansen, Alma F., Minneapolis
 Hansen, Carmen, Wells
 Hansen, Grace H., Ashby
 Hansen, Ovedia R., Currie
 Hansen, Rhoda B., Minneapolis
 Hanson, Anna A., Goodhue
 Hanson, George B., Melby
 Hanson, Gunhilda, Swanville
 Hanson, Hazel, Birchdale
 Hanson, Hilda I., Little Falls
 Hanson, Norma H., Willmar
 Hart, Margaret A., New Prague
 Hasenbank, Ida C., Lake Elmo
 Haslip, Laura V., Northfield
 Hatfield, Willetta B., Lakeville
 Haug, Mariom, Madelia
 Hauge, Esther F., Nerstrand
 Hayes, Inez E., South Stillwater
 Haynes, Elizabeth, Minneapolis
 Healy, Frances M., Spring Valley
 Healy, Mabel L., Langford, S. D.
 Healy, Nellie R., St. Paul
 Hedman, Anna B., Guthrie
 Heenan, Mrs. Mary, Litchfield
 Hegland, Joren, Fosston
 Heideman, Bessie, New Ulm
 Heller, Margaret A., Braham
 Hendrickson, Ethel, Minneapolis
 Henrickson, Carl C., Karlstad
 Henslin, Phebe M., St. Paul
 Hensted, Anna, Chandler
 Hensted, Caroline, Chandler
 Herberg, M. Mabel, Taylors Falls
 Herbert, Esther, Minneapolis
 Hewitt, John R., Coyle, Okla.
 Hewson, Bertha V., Stacy
 Hicks, Mrs. Florence S., Alexandria
 Higley, Marian Hall, Villard
 Hill, Harry H., Kimball
 Hillbrand, Percie V., Sturgeon Lake
 Hiller, Esther A., Minneapolis
 Hillman, Ida E., Aitkin
 Hillman, Lillian, Annandale
 Hillman, Ruth J., Annandale
 Hjelmstad, J. H., Minneapolis
 Hodgeman, Helen L., Dodge Center
 Hofland, Alma, Menomonie, Wis.
 Hofstad, Anna, Glenville
 Hoftoe, Rowena A., Nevis
 Hogan, R. M., Lake Wilson
 Holcombe, Selma, Stillwater
 Holen, Helga, Pelan
 Holen, Ida, Pelan
 Holm, Alice M., Hinckley
 Holm, Inez C., Twin Valley
 Holmberg, Anna E., Cambridge
 Holt, Cora V., Dennison
 Holton, Ezra D., Elgin
 Homstad, Leila E., Wheaton
 Honaas, Genora, Spring Grove
 Hope, Helen, Nerstrand
 Hopkins, Ada H., Hinckley
 Houlihan, Nellie, St. Paul
 Houston, Frank L., Plentywood, Mont.
 Hov, I. S., Kindred, N. D.
 Howard, Martha C., Hopkins
 Hoxmeier, Christina M., St. Paul
 Hoy, Cecelia C., Minneapolis
 Hoyhtya, Amanda, Dassel
 Hubbell, Mary W., St. Paul
 Hultcrantz, Ruth E., Minneapolis
 Hultquist, Myrtle A., Shafer
 Hunter, Lillian A., Max
 Huset, Alma J., Brooten
 Hustad, C. Laura, Echo
 Huston, Jesse, Bingham Lake
 Huth, Helen A., Shakopee
 Hyde, Helen, St. Paul
 Iago, C. Agnes, Hector
 Imm, Nelda A., Waterville
 Irish, Vivien B. M., St. Paul
 Iverson, Carl M., Ashby
 Iverson, I. Christine, Halstad
 Iverson, Clara, Terrace
 Jacobs, Jacob, Richmond
 Jacobsen, Emma E., Askov
 Jacobson, Arthur E., Alexandria
 Jacobson, Delpha, St. Paul
 Jacobson, Emma, Jacobson
 James, Fannie P., Red Wing
 James, Mildred E., Princeton
 Jarvis, Zeta M., Minneapolis
 Jelinek, Agnes, New Prague
 Jensen, Bessie, Fosston
 Jensen, Hannah A., Franklin
 Jepson, Lydia M., Minneapolis
 Johansen, Margaret O., Tyler
 Johnsen, Ruth N., Fergus Falls
 Johnson, A. Octavia, Anoka
 Johnson, Agnes C., New Richland
 Johnson, Alice S., Minneapolis
 Johnson, Alpha T., Grandy
 Johnson, Arthur S., Fergus Falls
 Johnson, Clarence, Houston
 Johnson, Edla C., Minneapolis
 Johnson, Ellen, Dassel
 Johnson, Effie E., Litchfield
 Johnson, Esther S., Aitkin
 Johnson, Esther T., Center City
 Johnson, Goldie L., Clarissa
 Johnson, Hattie, Center City
 Johnson, Hermie T., Stillwater
 Johnson, Ida C., Lafayette
 Johnson, Josephine M., Aitkin

Johnson, Lila E., Aitkin
 Johnson, Mabelle I., Litchfield
 Johnson, Mayme R., Princeton
 Johnson, Minnie L., Clarissa
 Johnson, Nora G., St. Paul
 Johnson, Rena A., Blooming Prairie
 Johnson, Robert A., Willmar
 Johnson, Rasevina C., Sleepy Eye
 Johnson, Ruth A. D., St. Paul
 Johnson, Ruth N., St. Peter
 Johnson, Sigrid O., Alexandria
 Johnston, R. Edna, Kiester
 Judin, Lawrence A., Cambridge
 Juergens, Marion, Minneapolis
 Kaldahl, Gertrude, St. Paul
 Kamis, Adolph, New Prague
 Kassube, Hattie E., Bertha
 Kassube, Lewis E., Hanska
 Kellam, Hazel, Kilkenny
 Keller, Earl B., Anstad
 Keller, Olive L., Minneapolis
 Kelley, Helen U., Minneapolis
 Kelley, William T., St. Paul
 Kelly, Anna, Minneapolis
 Kelly, Catherine C., Montgomery
 Kelly, Evelyn, Montgomery
 Kelly, Marian A., De Graff
 Kempe, Ruby K., St. Charles
 Kendall, Vera, Loman
 Kenny, Anita B., Minneapolis
 Kiefer, Lillian, Belgrade
 Kildahl, Anna, St. Paul
 Kildahl, Lars S., St. Paul
 Kilgore, Kathleen E., Duluth
 King, Lily S., Hastings
 Kipp, Alice M., Warroad
 Kipp, Mrs. Mary E., Warroad
 Kjestad, Clara, Madelia
 Knotts, Cora, Craigville
 Knutson, Mabel, New Richland
 Kolbe, Lydia, Sleepy Eye
 Kooiman, Jennie E., Edgerton
 Kopecky, Mamie H., Silver Lake
 Kozitza, Susan B. M., Mapleton
 Kranz, Daisy M., Crookston
 Kranz, Sophia, Albany
 Krantz, Margaret, Iona
 Kreiser, Ruth M., Minneapolis
 Krier, Elizabeth, Caledonia
 Krinbring, George H., Badger
 Krokstrand, Johanna, Sacred Heart
 Kronstedt, Anton S., Merriam Park
 Kroohn, Evelyn, Minneapolis
 Kruger, Lillian, Montevideo
 Kryger, Gerda E., St. Paul
 Kucera, Lillian, Cologne
 Kuefler, Bernard C., Belgrade
 Kuefler, Hubert, Brandon
 Kurzek, Rosalie, International Falls
 LaBonne, Lydia C., Hugo
 Lagaard, Astrid M., Minneapolis
 Lagaard, Elizabeth, Minneapolis
 Lamberg, Ida, Pine City
 Landahl, Hazel, Gaylord
 Landsveck, Tilda B., McIntosh
 Lane, Beula, Osseo
 Langevin, Diana M., Hugo
 Larsen, Katherine, Morgan
 Larson, Edolph, Newark
 Larson, Florence, Alexandria
 Lassen, Anna C., Glencoe
 Lassen, Christine C., Glencoe
 Lawson, Elsie, Anoka
 Leathers, Blanche L., St. Francis
 Leavitt, Carrie M., Milbank, S. D.
 Lee, Elma J., Brooten
 Lee, Jennie R., Waseca
 Lemke, Mabel, Albert Lea
 Lenander, Naomi M., Cambridge
 Lester, Lillian L., Aitkin
 Liden, Helen, Minneapolis
 Lilley, Clara E., St. Paul
 Lillo, Lesa, Lengby
 Lindahl, Gertrude W., St. Paul
 Lindberg, Irene, Litchfield
 Lindberg, Mabel E., Cokato
 Lindell, Alma, Minneapolis
 Linder, Florence, Easton
 Lindgren, Myrtle, Taylors Falls
 Lindquist, Ruth M., Fulda
 Lindsey, Marion S., Monticello
 Linscog, Martha J., Wayzata
 Linstrand, Olga V. E., St. Paul
 Little, Mildred E. B., Seaforth
 Liveringhouse, Fannie, Ramey
 Livingston, Katherine, Dodge Center
 Lloyd, Margaret, Cleveland
 Lloyd, Ruth Morgan, Cleveland
 Locke, Olive A., Osseo
 Lockwood, Laura M., St. Paul
 Loe, Valmina, Maynard
 Lone, Jorgen, Ballclub
 Lone, Lena, Ballclub
 Long, Hattie S., White Bear Lake
 Long, Mrs. T. O., Sioux City, Iowa
 Lord, Eleanor, St. Paul
 Lott, Annie J., Chattanooga, Tenn.
 Lowe, Bessie I., Kellogg
 Luckman, Mahala H., Elbow Lake
 Lukens, Mary E., Le Roy
 Lumley, Vera, Renville
 Lund, Ethel M., Austin
 Lundberg, Hannah, Maple Plain
 Lundeberg, Marie E., Ellsworth, Iowa
 Lundeen, Celia C., St. Paul
 Lundin, Ruth E., Hinckley
 Lundquist, Edith, St. James
 Lundsten, Esther M., Waconia

- Lundsten, Ruth E., Delano
 Lussenhop, Freda O., Morton
 Lutz, Imogene, Akeley
 Lyman, Drusilla G., Stillwater
 Lynch, May, St. Paul
 Lynch, Mrs. Pauline, Minneapolis
 Luon, Horatia, Hinckley
 McAlvon, Nellie, Beardsley
 McBride, Josephine, Mankato
 McCann, Esther, Lismore
 McCarthy, Alice, Lanesboro
 McCarthy, Mary, St. Paul
 McCauley, Adele G., Norwood
 McCormick, Agnes, Hutchinson
 McCormick, Barbara, Hutchinson
 McEachern, M. Hazel, Minneapolis
 MacEachran, Agnes R., St. Paul
 McGinnis, William J., Cove
 McGinty, Rose M., Murdock
 McGowan, Dean C., St. Paul
 McGreahan, Inez E., Shawano, Wis.
 McHugo, Mary, Waseca
 McHugo, Rose, Waseca
 McHugo, Ruth, Waseca
 McKee, John C., Madelia
 McKinney, Ethel, Minneapolis
 McMahan, Agnes C., St. Paul
 McMullen, Celia M., Dassel
 McPartlin, Ellen E., St. Paul
 McVicar, Jean M., Princeton
 McVicar, Laura C., Princeton
 Magnuson, Joseph, Kerkhoven
 Maher, Ann B., Magnolia
 Mahler, Anna M., Aitkin
 Mahoney, Julia A., Redwood Falls
 Maki, Hilya W., Moose Lake
 Malone, Bessie, Lake Elmo
 Maloney, Eva M., St. Paul
 Mamer, Regina, Hastings
 Manning, Mary T., St. Paul
 Markfelder, Dorothea, E., Wadena
 Markhus, Carl J., Yorkville, Ill.
 Maroney, Nettie, Alexandria
 Marrinan, Margaret, St. Paul
 Marshall, Laurence E., Reading
 Martin, Archer H., Deer River
 Martin, Frances, Pillager
 Martin, Maud I., Rochester
 Mason, Clotilda, Long Lake
 Mason, Thirza, Dodge Center
 Massopust, Janet H., New Ulm
 Mathisen, Violet S., Faribault
 Matthies, Lillian, Wells
 Mattison, Eva M., Long Prairie
 Mattson, Alice, Braham
 Mattson, Geneva H., Grandy
 Mattson, Maybell, Minneapolis
 Mayer, Leone, New Ulm
 Mayo, Josephine, Alpha
 Mee, Mayme, St. Paul
 Meidell, Olive M., Beresford, S. D.
 Mersen, Alice M., Williams
 Metcalf, M. Lottie, Caledonia
 Metsala, Anna, Minneapolis
 Meyer, Edna C., New Albin
 Michelsen, Magnhild, Minneapolis
 Mikkelson, Anna, South Park
 Millard, Faith, Aitkin
 Millard, Harriet M., Aitkin
 Miller, Albert, Jackson
 Miller, Anna L., Minneapolis
 Miller, Dora J., Osseo
 Miller, Esther E., Minneapolis
 Miller, Jens P., Bruno
 Miller, Mary Alice, Minneapolis
 Miller, Vyvian, Kellogg
 Milligan, Millicent M., St. Paul
 Miner, Grace E., Yola
 Miner, Zelma P., Yola
 Mittag, Rose E., Fergus Falls
 Molamphy, Agnes J., Hastings
 Molenaar, Grace, Raymond
 Molenaar, Richard, Raymond
 Moll, Ida M., Parkers Prairie
 Monson, Anna O., Hector
 Montgomery, Helen M., State Sanatorium
 Montgomery, Ira, Sleepy Eye
 Moody, Clara, Sanborn
 Moore, Mary P., Monticello
 Morey, Lela E., Hastings
 Moritz, Margaret, Aitkin
 Morlander, George A., Williams
 Morlander, Lona E., Williams
 Morris, Laura C., Eden Prairie
 Morrissey, Catherine E., White Bear
 Lake
 Mosford, Alice M., Minneapolis
 Mostue, Gertrude A., Sacred Heart
 Motl, Clara I., Alpha
 Mueller, Olga, Stockton
 Muench, Henry F., Cochrane, Wis.
 Muller, Rebecca, Spring Grove
 Munn, M. Jeanette, Seaforth
 Munson, Anna E., Shafer
 Murphy, Anna, Wabasha
 Murphy, Emma, Minneapolis
 Murphy, Kathryn, St. Cloud
 Murphy, Mae, Caledonia
 Murphy, Marie, Minneapolis
 Muzikar, A. George, Jackson
 Myers, Mary E., Green Isle
 Myhro, Sarah, Spring Grove
 Neaton, Margaret A., Montrose
 Needham, Margaret T., Minneapolis
 Nelson, Anna L., Minneapolis
 Nelson, Astrid C., Isanti
 Nelson, Charles E., Gibbon
 Nelson, Christine, London

Nelson, Clara L., Buffalo Lake
 Nelson, Daisy C., Litchfield
 Nelson, Ellen A., Litchfield
 Nelson, Emma E., Stillwater
 Nelson, Esther A., Northfield
 Nelson, Esther E., Grove City
 Nelson, Esther W., Minneapolis
 Nelson, Minnie J., London
 Nelson, Nannie R., Grantsburg, Wis.
 Nelson, Olga M., Finlayson
 Nelson, Winnie V., Hector
 Nesbitt, Lavinia, Minneapolis
 Netteland, George L., Strandquist
 Newhouse, Emma L., Spring Grove
 Newman, Loretto C., St. Paul
 Newton, Carrie L., Morton
 Newton, Sadie, Minneapolis
 Nielsen, F. Clarey, Askov
 Niemann, Stella, Ogilvie
 Niggeler, Gertrude, Minneapolis
 Nolan, B. Elizabeth, Bethel
 Noll, Nella, Brooten
 Noonan, Elizabeth, Lismore
 Norby, B. O., Oklee
 Nord, Lillian M., Goodhue
 Nordby, Peter, Holmes City
 Nordstrom, Esther J., Watertown
 Norlin, Selma W., Minneapolis
 Nottan, Clementine, Little Falls
 Novak, Emma A., Lonsdale
 Nuernberg, Ida, Young America
 Nyberg, Ruth M., Hinckley
 O'Connor, Mae, Blooming Prairie
 O'Flaherty, Margaret, Kellogg
 O'Grady, Isabel U., Faribault
 O'Grady, Ruth E., Faribault
 O'Hara, Ellen, St. Paul
 O'Rourke, Winifred, Maple Lake
 Ober, Marguerite F., Minneapolis
 Oberg, Grace M., Center City
 Odell, Agnes L., Watertown
 Odell, Etta, Brooten
 Oistad, Manley, Shelly
 Oleson, Marguerite, Longville
 Olsen, Amelia, Minneapolis
 Olsen, Christine S., Waseca
 Olson, Bertha, Minneapolis
 Olson, Clara G., Cambridge
 Olson, Clara V., Welch
 Olson, Elin O., Maple Plain
 Olson, Elphy, Waverly
 Olson, Hazel D., Minneapolis
 Olson, Minnie C., Watertown
 Olson, Oscar A., Angus
 Olson, Sara J., Belgrade
 Oman, Emil A., Grandy
 Oman, Harriet, Renville
 Ordway, Mary, Minneapolis
 Orendorff, Alta, Randolph
 Osborn, Lucy, Minneapolis
 Osborn, Mary L., St. Peter
 Osland, Bertha, Lime Springs, Iowa
 Ostlie, Julia, Montevideo
 Ostlund, Ida V., Barnum
 Ostrander, Janie, Spring Valley
 Otterson, Petra H., Jackson
 Ovalson, Caroline O., Goodhue
 Owen, Veda M., Granada
 Packard, Sarah B., Halma
 Palm, Eveline A., St. Paul
 Palmer, Erma, New Ulm
 Palmer, Ruth A., Minneapolis
 Palmer, Signe E., Hastings
 Parker, Frances, Gilbert
 Parker, Mabel M., Littlefork
 Paulson, Esther G., Sacred Heart
 Paulson, Hazel A., Minneapolis
 Pearson, Nannie L., Cook
 Pearson, Ruth I., Hinckley
 Pederson, Dagmar T., Montevideo
 Pengilly, Clara B., Buffalo
 Pepin, Blanche E., Rock Creek
 Perkins, Nettine, Pine Island
 Petersen, Dagmar, Northfield
 Peterson, Albert T., Svea
 Peterson, Alice, Monticello
 Peterson, Alma T., Lake Wilson
 Peterson, Blanche, Blooming Prairie
 Peterson, Clara, Hector
 Peterson, Dora J., Frost
 Peterson, Eleanor H., Mayer
 Peterson, Emma, Hector
 Peterson, Esther C., Red Wing
 Peterson, Gladys, Eagle Bend
 Peterson, Hannah E., Frost
 Peterson, Hazel O., Moose Lake
 Peterson, Henry C., Ashby
 Peterson, Mabel L., Mound
 Peterson, Martha M., Vining
 Peterson, Nellie E., Hinckley
 Peterson, Olga M. V., Murdock
 Peterson, Selma S., White Bear
 Peterson, Sophia, Butterfield
 Petrie, Roy A., Deer Creek
 Phillips, Bertha J., Ruthton
 Phillips, Wilmer T., Pequot
 Pierson, Anna, Minneapolis
 Pierson, Blanch, Princeton
 Pierson, Esther C., Center City
 Pilling, Clara A., Edgerton
 Piltz, Arnes A., Waconia
 Pinkerton, Ellen P., Eyota
 Plehal, Harriet E., Excelsior
 Pogue, M. W., Warba
 Pogue, Mrs. M. W., Warba
 Pokorny, Henrietta, Silver Lake
 Potter, Nettie G., Vesta
 Preble, Hazel C., Stillwater

- Preston, Hattie, Northwood
 Priem, Anna A., Janesville
 Pringle, Emma J., Greene
 Pringle, Percy, East Lake
 Pugh, Verna, Wayland
 Purmort, Reith, Cedar
 Putzier, Emma, Bird Island
 Quam, Mayme H., Hopkins
 Race, Herbert, Eric
 Rafferty, Philomene M., St. Paul
 Rakness, Esther W., Alpha
 Ramberg, Hannah C., Hastings
 Randolph, Eva C., Beaver Creek
 Rankin, Barbara Scott, Badger
 Rankin, Jessie L., Badger
 Rasmussen, Dora A., Askov
 Rasmusson, Lillian M., Dodge Center
 Reber, Maude, Minneapolis
 Records, Rae I., St. Paul
 Redin, Lillie, Grove City
 Ree, Gyda, Boyd
 Reed, A. Ruth, Taylors Falls
 Reed, L. Alice, Taylors Falls
 Rehfeld, Alice H. D., St. Louis Park
 Reid, Mary F., Brandon
 Reierson, Anna, Fosston
 Reinarz, Viva A., Gemmill
 Reinarz, Gertrude E., Gemmill
 Reinhold, Charles O., Northampton,
 Pa.
 Reitan, Luella, Minneapolis
 Renken, Helen C., North St. Paul
 Reppy, Mrs. E. Netta, Flandreau, S. D.
 Reynolds, Janet, St. Paul
 Reynolds, Sadie M., Lime Springs
 Rice, Alice M., Minneapolis
 Richardson, Elizabeth, Duane
 Richardson, Ruby G., St. Frances,
 Canada
 Richten, Eleanor, Montgomery
 Rieman, Louise, Faribault
 Rindahl, Albert P., Grand Marais
 Rindfleisch, Elsie S., Minnesota Lake
 Ripple, Dorothy C., Northfield
 Robertson, Bess, Alden
 Robertson, Mayme, Alden
 Robinson, Mary L., Peoria
 Rockstrok, Anna, Lakeland
 Rockwood, David C., St. Cloud
 Rogers, Myrtle, Stevens Point
 Rollins, Ruby, Caledonia
 Romereim, Sina, Hendrum
 Roning, Ole E., Pelican Rapids
 Ronken, Irene L., Spring Valley
 Root, Floy B., New Richland
 Rosenwald, Arthur W., Madison
 Rossing, Charlotte, Princeton
 Roth, Bertha A., Norwood
 Rouse, Honore, Minneapolis
 Rovainen, Verna A., Franklin
 Rundquist, Agda C., Sturgeon Lake
 Ruskjer, Matie, Hutchinson
 Russell, Zula, St. Paul
 Rutherford, Bertha, Austin
 Ruud, Emma D., McGrath
 Ruud, Martha C., McGrath
 Ryan, Anna M., Minneapolis
 Ryan, Elizabeth F., Millville
 Rydberg, Carrie, Bovey
 St. Onge, Julia A., Faribault
 St. Peter, Lula E., Pupasky
 Sachs, Helene E., Farmington
 Sackery, Minnie J., Dassel
 Saed, T. J., Ettrick
 Samdahl, Clara W., Montevideo
 Samuelson, S. Ernest, Henning
 Sanborn, Aimee E., Northfield
 Sanden, Emma, Houston
 Sanquist, Ellen E., Watertown
 Sayers, Gertrude E., Lakeville
 Scanlan, Alice M., Maple Lake
 Scanlon, Anna B., Aitkin
 Schafer, Gladys, Renville
 Scheer, Ida, Erhard
 Scheer, Mary C., Erhard
 Scherfenberg, Mary E., Nevis
 Scheveland, Alf I., Hanley Falls
 Schmidt, Frieda D., Hugo
 Schmitz, Albin P., Belgrade
 Schneider, Emily, Albany
 Schneider, Lorraine, Albany
 Schofield, Carroll V., Spring Valley
 Schott, Elizabeth G., Franklin
 Schouweiler, Agnes, St. Paul
 Schouweiler, Laura G., St. Paul
 Schouweiler, Oliva, St. Paul
 Schouweiler, Rose, St. Paul
 Schrader, Irene, Dundas
 Schroeder, Lurenia D., Stillwater
 Schultenover, Anna H., Mauston, Wis.
 Schwartz, Magdalene, St. Paul
 Schwartz, Mary C., Sandstone
 Schwarzkopf, Lillian M., Brainerd
 Schwengle, Magdalen C., Lamberton
 Schwengle, Teresa, Lamberton
 Slater, Alice M., Hopkins
 Seavey, Barbara, Aitkin
 Seavey, Myra, Aitkin
 Semon, E. Laura, Mizpah
 Shambouer, Albina R., Montgomery
 Shanahan, Alice, Hopkins
 Sheehan, Terrence J., Hastings
 Sheehy, Mary, St. Paul
 Shefner, Rose, Minneapolis
 Sherer, Hallie M., Sandstone
 Sherer, Ruth, Sandstone
 Sherlock, Anna M., Belle Plaine
 Shields, Agnes T., Kilkenny

- Shoen, Mabel E., McGrath
 Siemer, Anna D., Moose Lake
 Sincocks, Anna, Brainerd
 Singleton, A. Marie, Laurel
 Sister Mary Cathaldus, St. Paul
 Sister Mary Eustachia, St. Paul
 Sister Mary Oswald, St. Paul
 Sister Rinalda, St. Paul
 Siverson, Clara, Watson
 Siverson, Emelia, Watson
 Skaar, Helga M., Crookston
 Skalbeck, Alma O., Sacred Heart
 Skeie, Elmer, Winger
 Skipton, Ethel, Kasota
 Slack, Julia M., St. Paul
 Slettedahl, Peter J., Dawson
 Smiley, Proctor K., Kellogg
 Smith, Carrie L., Garfield
 Smith, Edna, Kenneth
 Smith, Elton L., Dodge Center
 Smith, Edna W., St. Paul
 Smith, Ethel M., Gemmill
 Smith, Genevieve, Minneapolis
 Smith, Gertrude A., Waseca
 Smith, Gertrude A., Rush City
 Smith, Mrs. Grace W., Minneapolis
 Smith, Hazel E., Minneapolis
 Smith, Ina G., Parkers Prairie
 Smith, Jessie E., Anoka
 Snyder, Lottie E. I., Kelliher
 Soderburg, Sophia M., Duluth
 Solbrekken, Mabel, Sedan
 Solen, Helen C., Kenneth
 Summerfield, Lena L., Sleepy Eye
 Sorum, Ruth, Minneapolis
 Souba, Amy, Hopkins
 Soustegard, Minnie, Brooten
 Spencer, May L., Minneapolis
 Spencer, Mildred, Milaca
 Spies, Anne E., St. Paul
 Spies, Marie E., St. Paul
 Sprague, Harriet L., Madelia
 Stannard, Louise, Taylors Falls
 Stav, Cora M., Dennison
 Stearns, Lucy E., Aitkin
 Steenerson, Ingeborg D., Climax
 Steinke, Juliet S., St. Paul
 Stern, Elsie B., Dexter
 Stevens, Charlotte, Minneapolis
 Stevens, Rose M., Pine City
 Stone, Minnie O., St. Paul
 Stonestrom, Lila I., Dalbo
 Stowell, Lloyd L., Madison
 Strand, Irene, Marine Mills
 Strobel, Gustav A., Mankato
 Strom, Mabel, Mora
 Struke, Vera, Gordonsville
 Stucki, Elma, West Concord
 Stuvland, Ida, Northfield
 Stuvland, M. O., Northfield
 Sullivan, Anna L., Madelia
 Sullivan, Delia, St. Paul
 Sullivan, Frances, Stewart
 Sunderland, George, Badger
 Sunderland, Henry, Badger
 Swanlund, A. Edwin, Hopkins
 Swanson, Edna C., Moose Lake
 Swanson, Ella J., Savage
 Swanson, Esther, Rush City
 Swanson, Lillian R., Hopkins
 Sweet, Minetta V., Alexandria
 Swenson, Augusta, Rush City
 Swenson, Hannah A., Houston
 Swenson, Mabel C., Bird Island
 Swenson, Vera O., Enfield
 Sybilrud, Inga, Hartland
 Sylling, Bertha O., Spring Grove
 Symmes, Sylvia A., Renville
 Tart, Ida M., Alexandria
 Taylor, Andrew M., Danube
 Taylor, George E. A., St. Thomas,
 N. D.
 Taylor, John W., Outing
 Teichroew, Henry W., Mountain Lake
 Teitenberg, Anna M., Wilmont
 Teitenberg, Carrie H., Wilmont
 Terry, Gladys M., Gladstone
 Teutz, Olga, Princeton
 Theisen, Joseph P., Cold Springs
 Thiele, Edward, Eitzen
 Thomas, Mary E., North Branch
 Thompson, Alma A., Jackson
 Thompson, Harry, St. Paul
 Thompson, Ida, Sacred Heart
 Thompson, Julia F., Fisher
 Thompson, Thorwald S., Saum
 Thorsen, Clara P., Red Top
 Thorson, Leda, Spring Valley
 Thorson, Olga C., Wayzata
 Thorson, Thora, Minneapolis
 Thostenson, Julia M., Wood Lake
 Thote, Thekla J., Young America
 Thunstedt, G. A., Willmar
 Thunstedt, W. A., Willmar
 Toftey, Johannes, Tofte
 Tomczak, Wanda C., St. Paul
 Tool, Ella F., Aitkin
 Trapp, Elvera E., Dodge Center
 Trovatten, Anna, Hanley Falls
 Truedson, Ruth, Grandy
 Trump, Effie A., Robbinsdale
 Tdyggeseth, Ida O., Dawson
 Tryon, Alice R., Minneapolis
 Tupper, Leon B., Comfrey
 Umpleby, Grace M., St. Paul
 Urquhart, Helen, Huron, S. D.

- Valentine, Sadie L. A., Aberdeen, S. D.
 Van Tassel, Emma, Stillwater
 Van Tassel, Theresa, Stillwater
 Varner, Glenn F., St. Cloud
 Verburg, Jennie C., Barnesville
 Vermilyea, Leo B., Verndale
 Vermilyea, Ruth C., Verndale
 Vogelpohl, Hanna, Eden Valley
 Vogt, Isabel M., Minneapolis
 Vollbrecht, Laura, Hanover
 Vollbrecht, Minnie O., Hanover
 Vollmer, Johanna L., Sleepy Eye
 von Borgersrode, Eda, Winsted
 von Borgersrode, Gladys, Delano
 von Borgersrode, Millie, Winsted
 Vorce, Alta, Claremont
 Vorce, Bernice, Aitkin
 Wagener, Leona M., Mishicot, Wis.
 Wahl, Marie O., Karlstad
 Waldhoff, Myrtle M., North Branch
 Waldon, Arthur J., Bertha
 Wallace, May, Belmont, Iowa
 Waller, Agnes H., Stacy
 Waller, Jessie, St. Paul
 Walsh, Margaret, St. Paul
 Walsh, Nellie C., Brownsville
 Wandersee, Ethel M., Minneapolis
 Ware, Norah Rose, Spring Valley
 Warren, Emma C., Spring Valley
 Warren, Irene E., Spring Valley
 Waterman, Mabel E., Hubbard
 Watschke, J. F., Tintah
 Watson, Florence, Mitchell
 Watson, Mamie A., Mahtowa
 Waylander, Myrtle, Grove City
 Weber, Emma M., Hastings
 Weber, Margaret P., Rogers
 Weberg, Esther E., Minneapolis
 Weech, Raymond C., Brook Park
 Weichselbaum, Mamie F., Lakeville
 Welch, Blanche E., Hutchinson
 Welch, Maude, Green Isle
 Weller, Tressa, Springfield
 Wells, Ellen H., Minneapolis
 Wells, Francis G., Walker
 Welte, Frank, Lengby
 Welton, Agnes E., Maple Lake
 Welton, Amanda, Buffalo
 Welton, Maude L., Pine Knoll
 Wert, Alice E., Baudette
 Westlie, Clara H., Beaver Creek
 Westlie, Helen M., Beaver Creek
 Westlund, Ruth I., Kerkhoven
 Whalen, Marie E., Litchfield
 Whelan, Lillian B., Bruno
 White, Ethyle A., Lemmon, S. D.
 Whitney, Emily C., St. Paul
 Wichmann, Ida M., Belview
 Wiggins, Esther, Verdon
 Wiggins, Polly B., Verdon
 Wilcox, Ella, Excelsior
 Wilcox, Florence, St. Paul
 Wildes, May V., Hibbing
 Williams, Odessa M., St. Paul
 Williams, Sara E., Minneapolis
 Wilson, Mary, St. Paul
 Wilson, Mildred, Cambridge
 Wünd, Kate, Hopkins
 Winkelman, Bernard C., Clear Lake
 Winter, Winifred
 Wood, Calmer H., Byron
 Woods, Grace E., Owatonna
 Wright, Edna F., Pillager
 Wyatt, Edna B., Salt Lake City, Utah
 Young, Barbara, Princeton
 Young, Katy M., Hinckley
 Yates, Grace, Manson, Iowa
 Young, Laura M., Brainerd
 Young, Nea P., Hinckley
 Younger, Ellen J., St. Louis Park
 Zahler, Mrs. L. H., St. Paul
 Zea, Myrtle E., Butterfield
 Zuzelska, Elsie E., Minneapolis

Rural Life Conference, 1916—170

- Abbott, Mark M., International Falls
 Allen, Warren H., Walker
 Anderson, Cecelia, Green Bay, Wis.
 Anderson, Walter R., Belgrade
 Atwood, G. H., Fosston
 Austin, F. F., Holyoke
 Ayers, Ellsworth, Pine City
 Baker, C. C., Albert Lea
 Baldwin, Clara F., St. Paul
 Barnes, O. A., Winthrop
 Bennett, Lewis K., Spring Valley
 Bieri, Margaret E., Blue Earth
 Bjorka, Knute, Belgrade
 Bond, C. V., Minneapolis
 Bornman, Charles J., Alice, N. D.
 Brandvig, A., Trail
 Brant, W. O., Stillwater
 Briggs, J. G., Owatonna
 Brobeck, Adeline M., Comfrey
 Brown, Clair W., Rushford
 Brown, Ida A., Minneapolis
 Brown, R. A., Lakefield
 Brunning, George J., Sebeka
 Buchanan, Roy R., Brown Valley
 Canty, Gertrude, St. Paul
 Carl, Leslie M., Lone Tree

- Chapman, F. W., Minnesota Lake
 Chase, P. W., Mountain Lake
 Clague, E. D., Minneapolis
 Cochran, George W., Littlefork
 Coffin, R. C., Minneapolis
 Colby, Leslie L., Madelia
 Colliver, S. A., Sandstone
 Cooper, C. H., Mankato
 Crandall, Elizabeth, Montevideo
 Cranston, R. W., Minneapolis
 Croasdale, Mayme, International Falls
 Davis, Fred, Littlefork
 Davis, Leslie G., Sleepy Eye
 Dickinson, Sherman, St. Paul
 Dinsmore, Eda, St. Croix Falls, Wis.
 Edwards, E. H., Castle Rock
 Espenett, C. S., New Brighton
 Eyerly, Elmer K., Vermillion, S. D.
 Fall, R. B., Appleton
 Finke, W. F., St. Paul
 Fishlock, Alta, Arcola, Ill.
 Flagg, Alice A., Minneapolis
 Gerten, F. L., South St. Paul
 Gillig, Edward M., St. Paul
 Gillingham, Ina C., Granite Falls
 Gippe, Hilda M., Watson
 Glasner, Susan, St. Paul
 Gloon, Arnold, Mound
 Goss, Leonarda, St. Paul
 Gregg, O. C., Lynd
 Haley, A. T., Minneapolis
 Halverson, A. Grace, Baudette
 Halverson, A. O., Thorhult
 Hamilton, E. N., Osakis
 Hamlin, H. M., Le Sueur
 Hann, C. S., Big Falls
 Hanson, A. M., Excelsior
 Harvey, F. H., Farmington
 Hayes, W. H., Backus
 Hedgcock, J. Franklin, Albert Lea
 Heedeweech, George A., Waconia
 Hegdahl, Bertha, Grand Rapids
 Helgeson, G. P., Litchfield
 Hemsworth, E. V., Garden City
 Hewitt, J. R., Elk River
 Hibbs, E. G., Albert Lea
 Higbie, L. C., Harmony
 Hjetland, J. H., Winthrop
 Hoffman, Burton L., Plainview
 Hofstad, Benjamin, Deer River
 Hogan, R. M., Lake Wilson
 Holbrook, E. P., St. Paul
 Howard, E. Lee, St. Paul
 Howard, Edwin B., Ames, Iowa
 Howland, Mrs. Abbie M., Northfield
 Ingerson, Martha, Minneapolis
 Jewell, D. B., International Falls
 Johnson, Edward F., Middle River
 Johnson, Robert A., Willmar
 Jones, B. B., Le Mars, Iowa
 Kirkconnel, R., Nevis
 Knox, C. W., Cleveland
 Langmaid, Abbie B., Granite Falls
 Lapham, Frances P., Caledonia
 Larson, Emma M., St. Paul
 Lewis, R. J., Forest Lake
 Lillie, Florence E., St. Paul
 Lindberg, Mabel E., Cokato
 Lindgren, A. G., Floodwood
 Lindsey, Marion S., Monticello
 Lyness, Charles E., New Richland
 Lyness, Mrs. Charles E., New Richland
 McCornas, W. E., Dodge Center
 McCullough, H. D., Hinckley
 McLean, Alexander E., Markville
 Macy, L. G., Jordan
 Markham, James L., St. Paul
 Mason, O. G., Remer
 Mead, C. E., Pine Island
 Melley, G. Herbert, Ulen
 Miller, Jens P., Bruno
 Miller, Mrs. Jens P., Bruno
 Molenaar, R., Jackson
 Moody, H. L., Lake Wilson
 Mueller, Emil, Nerstrand
 Mulder, W. A., Amiret
 Munier, George F., Glencoe
 Murphy, Kathryn, St. Paul
 Muse, C. H., Osseo
 Nauman, Albert H., Spring Valley
 Norby, B. O., Oklee
 Norsen, K. A., Alexandria
 Olds, Lue A., Granite Falls
 Olson, G. A., Cushing, Wis.
 Olson, Roy L., Medford
 Oman, E. A., St. Paul
 Persum, F. J. E., Atwater
 Petersen, William E., Pine City
 Peterson, J. Martin, Freeborn
 Pickard, A. E., Minneapolis
 Poole, Gladys, Truman
 Quale, E. C., Hartford, S. D.
 Reinertsen, P. Amos, Rushford
 Reineke, E. C., Byron
 Riley, Thomas E., Moorhead
 Ringdahl, N. Robert, Rush City
 Robilliard, H. L., Faribault
 Rodeen, Charles, Willmar
 Ruehl, Adolph H., Lamberton
 Ruehl, Mrs. Adolph H., Lamberton
 Rutledge, I. C., Chisholm
 Saed, T. J., Etrick, Wis.
 Sander, John, Lindstrom
 Sandt, A. N., Winona
 Schenck, John W., Grand Rapids
 Schoenleben, M., St. Paul

Sheay, John P., Hutchinson	Vandyke, J. A., Coleraine
Shelland, Annie E., St. Paul	Walker, H. R., Hill City
Sollman, B. G., Cokato	Walker, William H., Beloit, Wis.
Stangel, O. A., Virginia	Waltner, Benjamin, Jackson
Strobel, G. A., Plainview	Watschke, J. F., Tintah
Swanson, H. B., Cedar Rapids, Iowa	Wesinberg, W. J., Utica
Tapping, Minnie E., Minneapolis	White, C. E., Minneapolis
Teichroew, Henry W., Mountain Lake	Whiteside, A. E., Sauk Rapids
Ternberg, E. S., Gibbon	Whittenburg, R. L., Kimball
Thompson, William E., St. Paul	Wildenstein, E. J., Norwood
Thorp, W. E., Long Prairie	Williams, L. D., Le Sueur
Thorson, Theo, Winthrop	Wilson, M. Eleanor, Red Wing
Tripp, Floyd C., Worthington	Young, S. D., Lindstrom
Upton, R. P., Maple Plain	Yule, C. L., Stephen

Extension Gymnasium, 1917-25

Barnes, Donald, St. Paul	Marshall, Kenneth, St. Paul
Berge, Olaf, St. Paul	Raudenbush, Albert, St. Paul
Borglin, Ernest, St. Paul	Saltzman, Evan, St. Paul
Boss, Kenneth, St. Paul	Saltzman, Roger, St. Paul
Brubaker, Merlin, St. Paul	Stephens, Paul, St. Paul
Cogswell, Leonard, St. Paul	Sweet, Edward, St. Paul
Gutterson, Leslie, St. Paul	Thom, Myron, St. Paul
Haedecke, August, St. Paul	Thompson, Harry, St. Paul
Hanson, Everett, St. Paul	Vye, Lloyd, St. Paul
Hanson, Lee, St. Paul	Vye, Warren, St. Paul
McAninch, Harold, St. Paul	Weswig, Carl, St. Paul
McAninch, Vance, St. Paul	Williams, Henry, St. Paul
McIntyre, Joe, St. Paul	

NORTHWEST SCHOOL OF AGRICULTURE

ADVANCED CLASS—5

Erickson, Palmer, Goodhue	Hammer, Edwin, Heiberg
Flaat, Ole A., Fisher	Tunheim, Thorval, Newfolden
Garceau, Lester R., Red Lake Falls	

TEACHERS' TRAINING—7

Bagaas, Gertrude, Stephen	Pearson, Esther, Argyle
Eklund, Amanda, Hallock	Torgerson, Almira, Fosston
Huot, Helen, Wylie	Torgerson, Josephine, Fosston
Imsdahl, Hannah, Oslo	

SENIORS—27

Anderson, Herbert, Clearbrook	Haenke, Florence, Eveleth
Anderson, Nellie, Ortonville	Hagglund, Birger, Alvarado
Anderson, Raymond, Hitterdal	Heiberg, Rasmus, Heiberg
Anderson, Sam, Alvarado	Imsdahl, Josie, Oslo
Auburg, Charles, Bagley	Johnson, Fred, Argyle
Bjorsness, Albert, Newfolden	Johnson, Marion, Felton
Dauids, George, Bagley	Monson, Johanna, Drayton, N. D.
Gigstad, Oscar, St. Hilaire	Ness, Peter, Cass Lake

Ovan, Carrie, East Grand Forks
 Peterson, Maja, Mentor
 Peterson, Walter, Lancaster
 Porten, James, Alvarado
 Sather, Julius, Halstad
 Scherfenberg, King, St. Cloud

Sheridan, Walter, Minncapolis
 Soberg, Martin, Fertile
 Spjut, Magnus, Halstad
 Tunheim, Oscar, Newfolden
 Westberg, Ethel, Cottonwood Lake,
 N. D.

JUNIORS—25

Abbott, Thomas, Mentor
 Arneson, Stanley, Shelly
 Boness, Olof, Saum
 Cawelti, Arthur, Crookston
 Christianson, Arthur, Crookston
 Hallgren, Emil, Bronson
 Isaacson, Carl, Thief River Falls
 Johnston, Earl, Fargo, N. D.
 Jones, Frank, Clearwater
 Kulle, Gerda, Alvarado
 Lee, Clarence, Pencer
 Lee, Newell, Halma
 Lofgren, Inga, Warroad

Morris, Harold, Middle River
 Moses, Bernard, Pelican Rapids
 Nyquist, Hilda, Fertile
 Osgaard, Henry, Crookston
 Rubert, Fred, Orleans
 Samuelson, Oscar, Crookston
 Sangen, Martin, Newfolden
 Skonovd, Arthur, Viking
 Spokely, Guy, Nielsville
 Tunheim, Olga, Newfolden
 Westphalen, Adelia, Crookston
 Wiger, Alfred, Ulen

FRESHMEN—136

Aasland, Russell, Wurner
 Abbott, Daisy, Mentor
 Amundson, Olaf, Bemidji
 Anderson, Andrew, St. Vincent
 Anderson, Arthur, Greenbush
 Anderson, Edna, Greenbush
 Aure, Elvin, Audubon
 Austad, Ella, Fosston
 Austin, William, Malung
 Bakke, Adolph, Newfolden
 Bertrand, Wilfred, Stephen
 Bjeilund, Nels, Erskine
 Bjorge, Arthur, Crookston
 Boe, Gunnar, Neilsville
 Boffie, George, Gatzke
 Borg, Oscar, Hampden, N. D.
 Bradley, Joseph, Erskine
 Brokke, Carl, Buxton, N. D.
 Brunnell, Joseph, Crookston
 Burnquist, Gustave, Crookston
 Cawelti, Ruth, Crookston
 Dahle, Otto, Fertile
 Davids, Thomas, Bagley
 Eggen, Herman, Oxville, Canada
 Ellinboe, Helge, Roseau
 Ellingson, Sigurd, Neilsville
 Engelstad, Mabel, Neilsville
 Enger, Tenny, Halstad
 Erickson, Carrie, Argyle
 Erickson, Emil, Fertile
 Erickson, Olaus, Gatzke
 Evernham, Fern, Rollis

Folland, Torger, Halma
 Gibson, Henry, Ulen
 Gilbertson, Orvan, Fertile
 Goodwin, Oliver, Angus
 Gordon, Loyd H., Cummings, N. D.
 Grady, Willard, Crookston
 Grothe, Clarence, Halstad
 Gustafson, Alvin, Beltrami
 Hagelie, Otto, Beltrami
 Hallstrom, Martin, Wylie
 Hanson, Alice, Newfolden
 Hanson, Bernt, Holt
 Hedin, Andrew, Twin Valley
 Hedlund, Albin, Malung
 Hegland, Thorval, White Earth, N. D.
 Hillmer, Ruth, Crookston
 Hjelle, Hjelmar, Newfolden
 Hoiland, Johnnie, Halstad
 Holland, Elmer, Shelly
 Holland, Ole, Shelly
 Hutchinson, Harry, Euclid
 Imsdahl, Verna, Oslo
 Jacobson, Peder, Neilsville
 Johnson, Albin, Fertile
 Johnson, Anna, Fisher
 Johnson, Anna E., Warren
 Johnson, Axel, Stephen
 Johnson, Calmer, Argyle
 Jorgenson, Carl A., Twin Valley
 Kelly, Alex, Crookston
 Knox, William, Fisher
 Krbecheck, Sophia, Erie

- Kvamme, Bennie, Ada
 Laliberte, Leander, Gentilly
 Lanager, Ida, Plummer
 Landin, Caroline, Swift
 Laroche, Arnold, Euclid
 Layton, Arthur, Crookston
 Layton, Louis, Crookston
 LeBlanc, Ovid, Crookston
 Lien, Albert, Audubon
 Lillo, Walter, Lengby
 Lindberg, Hannah, Roland
 Lindfors, Cora, Fosston
 Lindfors, Florence, Fosston
 Lundin, Oscar, Stephen
 McCrae, Clarence, Beltrami
 McGrath, Clement, Greenbush
 Malme, Arthur, Halstad
 Malme, Ole, Neilsville
 Mellen, Clayton, Ulen
 Miller, Fred, Dayton, N. D.
 Morberg, Hjalmar, Alvarado
 Nelson, Albie, Donaldson
 Nobben, Henry, Thief River Falls
 Olson, Henry, Erskine
 Olson, Nobel, Middle River
 Omdahl, Peter, Halstad
 Paulson, Alvilda, Neilsville
 Paulson, Christian, Stephen
 Paulsrud, Gunnar, Neilsville
 Paulsrud, John, Neilsville
 Pearson, Swan, Argyle
 Pederson, Clarence, Halstad
 Pelowski, Dominic, Greenbush
 Peterson, Emma, East Grand Forks
 Peterson, John, Fisher
 Peterson, Theodore, Fisher
 Quam, Edwin, Erskine
 Rodseth, Andrew, Neilsville
 Roed, Claudius, Fertile
 Roed, Luther, Fertile
 Rubert, Lettie, Orleans
 Rud, Martin, Viking
 Rutherford, Raymond, Euclid
 Salverson, Anna, Fisher
 Sandbeck, Martin, Charwin, Canada
 Sandbeck, Oscar, Mossbank, Canada
 Sandeen, Willie, Clearbrook
 Simon, Thomas, Neilsville
 Sirjord, Harold, Flaming
 Schaper, Emma, Red Lake Falls
 Shefveld, Richard, Audubon
 Solvet, Eric, Newfolden
 Spokely, Earl, Neilsville
 Stalemo, Anna, Fisher
 Steenerson, Tarjie, Climax
 Stewart, Leah, Hallock
 Strand, Olaf, Roseau
 Sundem, Elsie, Lancaster
 Swanson, Tina, Wylie
 Swenson, Milo, Gary
 Tangjerd, Thorvald, Bagley
 Tendeland, Clara, Neilsville
 Thompson, Carl, Shellbrook, Canada
 Thompson, Gilford, Ada
 Thompson, Gunder J., Shellbrook,
 Canada
 Thomson, David, Orleans
 Thorson, Knute, Ulen
 Tollefson, George, Hatton, N. D.
 Tronnes, Edwin, Shelly
 Valley, Alpha, Crookston
 Villand, Clara, Neilsville
 Westlin, Julia, Newfolden

Junior Short Course, 1917—60

- Aas, Herman, Climax
 Anderson, Lena, Erskine
 Areson, Odin, Climax
 Belzer, Morris, Crookston
 Bengtson, Gustaf, Lake Park
 Bengtson, William, Lake Park
 Bjornrud, Palmer, Climax
 Bredlie, Elmer, Eldred
 Brundin, Hjalmar, East Grand Forks
 Bruun, Harold, Climax
 Bruun, Ida, Climax
 Cawelti, Harold, Crookston
 Crosby, Norman, Perley
 DeVore, Morris, Mentor
 Dragseth, Andy, Eldred
 Evenson, Meredith, Climax
 Padness, Adolph, Fleming
 Flermoen, Lewellyn, McIntosh
 Foss, Gunda, Halstad
 Grove, Harold, Climax
 Grove, Lawrence, Climax
 Gunness, Vernard, East Grand Forks
 Houghum, Clarence, Perley
 Hovland, Carl, Perley
 Iverson, Norman, Warren
 Johnson, Luther, Mentor
 Johnson, Pearl, Climax
 Johnson, Ralph, Climax
 Johnson, William, Mentor
 Kasberg, Amos, Eldred
 Kittleson, Bennie, Mentor
 Knudsin, Arthur, Warren
 Krbechek, Sophie, Erie
 Krogen, Arthur, Eldred

Larum, Clifford, Climax
 Letness, Lars, Crookston
 Lindberg, Oscar, Fertile
 Lindem, Selmer, Climax
 Monson, Alon, Climax
 Monson, Clifford, Climax
 Moses, Bertha, Pelican Rapids
 Moses, Jay, Pelican Rapids
 Ness, Ralph, Perley
 Ondahl, Alice, Halstad
 Pearson, John, Crookston
 Peterson, LeRoy, Warren
 Probst, Herman, Warren

Rarick, Mary, Climax
 Remick, Herbert E., Mentor
 Rude, James, Mentor
 Svehde, Sivert, Perley
 Simonson, Arthur, Crookston
 Sorvig, Otto, Erskine
 Spangrud, Carl, Kennedy
 Sparks, Robert, Eldred
 Strommen, Pauline, Climax
 Swenson, Albin, Fertile
 Thoreson, Ingman, Climax
 Wavra, William, East Grand Forks
 Young, John, Devils Lake, N. D.

Teachers' Training School, 1916-189

Abbott, Bertha E., Mentor
 Abbott, Daisy A., Mentor
 Abrahamson, Evelyn, Warren
 Amundson, Tillie, Norcross
 Anderson, Agnes F., Thorhult
 Anderson, Alma C., St. Hilaire
 Anderson, Beda, Fosston
 Anderson, Edna, Greenbush
 Anderson, Myrtle, Erskine
 Arndt, Sarah, Highlanding
 Arndt, Stella, Highlanding
 Arness, J. A., Fork
 Bain, Nellie, Fisher
 Bain, Ruby, Fisher
 Bakken, Clara, Thief River Falls
 Ballard, Grace, Warren
 Beck, Clara, Crookston
 Bengtson, Myrtle, Warren
 Benson, Minnie, Erskine
 Berg, Hulda, Crookston
 Berg, Nellie O., Dugdale
 Bergeron, Belle, Argyle
 Blomquist, Ellen, Middle River
 Bramseth, Anna, Climax
 Brandrud, Tilda, St. Hilaire
 Brown, Mildred, Gary
 Brustad, Minnie, Crookston
 Burhart, Ray, Carmel
 Byrne, Tillie, Clementson
 Caouette, Clara, Crookston
 Christopherson, Marie, Crookston
 Conner, Stella, Thief River Falls
 Copp, Ida L., Warren
 Crosby, Emma, Perley
 Dahl, Mabel, Borup
 Dahl, Nettie, Borup
 Dickinson, Lyla, Warroad
 Dickinson, M. F., Warroad
 Doyle, Rose, Crookston
 Duvbs, Olga, Karlstad
 Ehaust, Rozella, Crookston

Ehaust, Valentina, Crookston
 Ehlers, Ella, Leonard
 Einess, Martha, Fosston
 Erickson, Elinor, Crookston
 Erickson, Leonard, Crookston
 Evenson, Cora, Thief River Falls
 Evernham, Fae, Rollis
 Evernham, Mabel, Rollis
 Evje, Constance, Nielsville
 Ferdinandson, Myrtle, Goodridge
 Ferris, Doritha, Crookston
 Finsand, Inger, Esplee
 Fisher, Rose, Mentor
 Folkedahl, Ida, Highlanding
 Foss, Hilda, Thief River Falls
 Fossbakken, Mollie, Fosston
 Froirack, Christine, McIntosh
 Gibson, Nutah, Warroad
 Glenn, Valetta, Crookston
 Gordon, Amanda, Crookston
 Green, Stella, Plummer
 Hagen, Nora L., Fertile
 Hammond, Grace, Glenville
 Hammond, Nyle, Glenville
 Hammond, Raymond, Glenville
 Hansen, Louise, Crookston
 Hanson, Amanda, Beltrami
 Hanson, Clara, Crookston
 Hanson, Dina, Drayton, N. D.
 Hanson, Esther, Thief River Falls
 Hanson, Mary, Brager
 Hartman, Mabel, Euclid
 Hastie, Amber, Ada
 Hastie, Belle, Ada
 Henderson, Myrtle, Frazee
 Hertweck, Anna, Crookston
 Hevle, Mary, Newfolden
 Hibbetts, Ethel, Goodridge
 Hilliard, Lora, Lengby
 Hilliard, Nona, Lengby
 Hogen, Luverne, Crookston
 Homme, Thea, Wanke

Hoschied, Gladys, Baudette
 Iverson, Olga, McIntosh
 Johnson, Annie, Lake Park
 Johnson, Emma M., Warren
 Johnson, Nettie, St. Hilaire
 Kalland, Ida, St. Hilaire
 Kelly, Evelyn, Haug
 Kelsven, Ruth, Crookston
 Kerestes, Dorothy, Warren
 Ketten, Emma, Fisher
 Kilburg, Clara, Red Lake Falls
 Knutson, Clara, Fisher
 Knutson, Enger, Crookston
 Knutson, Mabel, Holt
 Lager, Martin P., Bronson
 Larson, Clara, Thief River Falls
 Larson, Clara, Alvarado
 Larson, Johanna, Holt
 Lehman, Martha, Crookston
 Leslie, Jessie, Rollis
 Letnes, Pauline, Crookston
 Luther, Mildred, Crookston
 Malarky, Grace, Crookston
 Martinson, Clara, Fisher
 Mathwig, Helen, Warren
 Miller, Josephine, Warroad
 Mitchell, Etta, Mentor
 Mitchell, Grace, Mentor
 Mogster, Ragnil, Leonard
 Monson, Sophie, Drayton, N. D.
 Myrvold, Anna, Bagley
 Nelson, Florence, Warroad
 Nelson, Saxton, Warren
 Newman, Pearl, Halma
 Nolan, Loretta, Crookston
 Norie, Ethel, Crookston
 Norum, Julianne, Hallock
 Nyquist, Selma, Fertile
 Olson, Lena, Halstad
 Olson, Oscar, Halstad
 Olson, Selma, Roseau
 Olson, Stella, Anstad
 Ose, Ingeborg, Fisher
 Ose, Margrethe, Fisher
 Ose, Toebjor, Fisher
 Paulsberg, Alma, Crookston
 Paulsberg, Jennie, Crookston
 Phillipson, Marie, Middle River
 Powers, Margaret, East Grand Forks
 Price, Arline, Crookston
 Ray, Lillian, Gonvick
 Renne, Louise, Shevlin
 Roy, Sopherna, Warroad
 Saastad, Christine, Holt
 Sampson, May, Trail
 Sannes, Ragnhild, McIntosh
 Sedlacek, Bessie, Radium
 Sexton, Mrs. Florence, Crookston
 Shannon, Clara, Fosston
 Sheldrew, Charlotte, Grygla
 Silnes, Sofie, Halma
 Simonson, Carrie, St. Hilaire
 Sister Agnes, Crookston
 Sister Albertine, Crookston
 Sister Alphonsus, Crookston
 Sister Angelique, Crookston
 Sister Anne, Crookston
 Sister Eugenie, Argyle
 Sister Josephine, Crookston
 Sister Madeline, Crookston
 Sister Marie, Crookston
 Sister Marie Alix, Crookston
 Sister Marie Emanuel, Crookston
 Sister Mary, Crookston
 Skyberg, Alma, Fisher
 Skyberg, Olga, Fisher
 Sollie, Clara, Fertile
 Sollom, Gunhild, Holt
 Sollom, Olava, Holt
 Spjut, Christine, Karlstad
 Stephenson, Nora, Frazee
 Stevens, Ruth, Thief River Falls
 Stewart, Hester, Dugdale
 Stone, Ida, Crookston
 Stortroen, Bereth, Fisher
 Stucy, Agnes, Highlanding
 Suprenant, Alexine, Red Lake Falls
 Swenson, Anna, Climax
 Tell, Esther, Blackduck
 Teske, Frances, Crookston
 Thompson, Tillie, Kratka
 Turner, May, Crookston
 Ulseth, Christine, Crookston
 Vavrina, Mary, Tabor
 Vicklid, Ragna, Fisher
 Vixie, Olga, Viking
 Welte, Clare, Lengby
 Wickum, Agnes, McIntosh
 Wilson, Christie, St. Vincent
 Wing, Jennie, Middle River
 Wood, Lillian, Karlstad
 Woodham, Gail, Crookston
 Wurden, Dora, Fisher
 Zakrison, Alfred, McIntosh
 Zakrison, Annie, McIntosh
 Zakrison, Elizabeth, McIntosh

WEST CENTRAL SCHOOL OF AGRICULTURE, MORRIS—137

FOURTH YEAR—3

Aanerud, Magna, Elbow Lake
 Quitney, Gerard, Lowry
 Swenson, Otto, Chicago, Ill.

SENIOR CLASS—29

Anderson, Amanda, Wadena
 Anderson, Nellie, Ortonville
 Bennett, Robert, Lowry
 Bolstad, Clara, Dawson
 Brevig, Caroline, Starbuck
 Cook, Aura, Westport
 Dehne, Henry, Holloway
 Dosen, Clifford, Starbuck
 Dyrstad, Agnes, Glenwood
 Field, Hoyt, Spicer
 Hendrickson, Walter, Kensington
 Hilleren, Bertine, Benson
 Huizinga, Flora, Ortonville
 Jensen, Chris, Morris
 Keeler, Herbert, Chokio

Larson, Arthur, Rothsay
 Larson, Mamie, Rothsay
 Ness, Ben, Cyrus
 Olson, Selma, Ortonville
 Pehl, Ralph, Campbell
 Rolen, Carl, Clinton
 Sinclair, Wayne, LaMoille
 Solvie, Alice, Cyrus
 Solvie, Eilert, Cyrus
 Sugden, Pearl, Herman
 Thimmesch, Mary, Osakis
 Vaala, Horace, Madison
 Warner, Sadie, Hancock
 Westberg, Ethel, Alamo, N. D.

JUNIOR CLASS—23

Anderson, Stena, Belgrade
 Brevig, Agnes, Starbuck
 Brisbane, Gladys, Morris
 Cummings, Kenneth, Dawson
 Dosen, Karen, Starbuck
 Erdahl, Manford, St. Cloud
 Erickson, George, Westport
 Ferrell, Herbert, Morris
 Hanson, Silas, Harmony
 Huntley, Max, Hancock
 Larson, Julia, Lowry
 Lilienthal, Hazel, Glenwood

Madsen, Ole, Herman
 Mahoney, Francis, Correll
 Myrun, Agnes, Louisburg
 Olds, Pearl, Morris
 Pearson, Victor, Grove City
 Reisrud, Clara, Starbuck
 Rolen, Harold, Clinton
 Solvie, Otto, Hancock
 Spalinger, Mary, Clinton
 Stotesbery, Lydia, Barry
 Ulvestad, Johanna, Chokio

FRESHMAN CLASS—82

Anderson, Jim, Clarinda, Iowa
 Anderson, Otto, Clara City
 Anderson, Walfred, Murdock
 Benson, Sherman, Kensington
 Bjorklund, Reuben, Kensington
 Bloomquist, Irene, Starbuck
 Brisbane, Lowell, Morris
 Burros, Irene, Evansville
 Christenson, Mabel, Porter
 Cook, Perry, Donnelly
 Cooper, Donald, Carlos
 Diebold, Edwin, Bellingham
 Dose, Lyle, Beardsley
 Dripps, Allen, Spencer, Iowa
 Erickson, Ethel, Nelson
 Evenson, Harvey, Wolverton
 Fauskee, Ella, Brooten
 Fauskee, Tina, Brooten
 Fosberg, John, Winnipeg, Man.,
 Canada.
 Gorder, Leroy, Starbuck
 Hagesteun, Ida, Starbuck
 Halvorson, Roy, Kerkhoven

Halvorson, Theodore, Barrett
 Hanson, John, Louisburg
 Herring, Guy, Renville
 Hiebel, Anna, Alexandria
 Holtan, Joseph, Dawson
 James, Harold, Glenwood
 Johnson, Frank, Ortonville
 Johnson, Mabel, Ortonville
 Kling, Louise, Morris
 Knutson, Carl, Tenney
 Koehntopp, Herbert, Bellingham
 Korn, William, Clara City
 Kranker, Svend, Morris
 Laird, Muriel, Terrace
 Larson, Arnold, Kensington
 Larson, Earl, Clinton
 Larson, Phillip, Murdock
 Larson, Selma, Cyrus
 Larson, William, Wolverton
 Lerdahl, Hilma, Cyrus
 Lindholm, Gottfred, Ortonville
 Maanum, Elmer, Hancock
 Mecklenberg, Dora, Nashua

Moen, Edward, Kensington
 Monson, Clarence, Doran
 Myrun, Viola, Louisburg
 Nelson, Jessie, Dawson
 Norby, Christine, Morris
 Nord, Richard, Wolverton
 Odden, Harold, Echo
 Olmeim, Carl, Starbuck
 Olson, Adolph, Murdock
 Peterson, Clara, Cyrus
 Peterson, Walter, Maynard
 Pittier, Emilio, Washington, D. C.
 Pushor, Kyle, Donnelly
 Quam, Andrew, Glyndon
 Quam, Godeo, Glyndon
 Ritzschke, Herman, Herman
 Roiland, Tilman, Louisburg
 Rolighed, Marvin, Appleton
 Rolin, Vear, Breckenridge

Rosenau, William, Sauk Centre
 Saterli, Arthur, Appleton
 Sears, Elmer, Motley
 Shaw, Curtis, Morris
 Simonson, Anna, Terrace
 Simonson, Helga, Terrace
 Snyder, Charles, Cottonwood
 Solbrekken, Emma, Sedan
 Steinbring, Henry, Morris
 Sund, Henry, Wendell
 Swenson, Alvin, Clinton
 Thieke, Anna, Beardsley
 Thoen, Elmer, Dawson
 Thompson, Magnus, Starbuck
 Thompson, Truman, Osakis
 Torgerson, Leslie, Motley
 Ulvestad, Ruth, Chokio
 Welfare, Leroy, Morris

Farmers' Short Course, 1917—53

Andert, Paul, Morris
 Austin, C. Y., Campbell
 Ausumb, Ole A., Donnelly
 Averill, Noble, Osakis
 Bauman, John, Raymond
 Biemel, Ludwig, Morris
 Bost, C. A., Morris
 Daugherty, J. T., Kandiyohi
 Davison, Lee, Tintah
 Davison, Ralph, Tintah
 Dohlen, Nordfelt, Morris
 Durkee, Albert, Hancock
 Ecklund, Herman, Chokio
 Evers, N., Morris
 Evers, W., Morris
 Gaarder, A. A., Chokio
 Gunderson, Ralph, Kensington
 Halvorson, Helmer, Farwell
 Halvorson, Reuben, Kerkhoven
 Halvorson, Robert, Kerkhoven
 Hancock, F. A., Morris
 Hanson, V. H., Herman
 Haughland, Ole, Morris
 Hegge, Emil, Ortonville
 Huntley, Vic, Hancock
 Johnson, Carl, Madison
 Johnson, Oscar, Hoffman

Johnson, Richard, Herman
 Knudson, Oliver, Montevideo
 Larson, David, Kerkhoven
 Larson, Ludvig, Chokio
 Lindgren, Elmer, Kerkhoven
 Lindgren, Julius, Kerkhoven
 McDermond, Lyle, Burtrum
 Maanum, Hjalmer, Farwell
 Michels, Joseph, Morris
 Molenaar, Clarence, Raymond
 Myrum, O. E., Louisburg
 Newell, J. B., Morris
 Quist, Emil, Glenwood
 Solvie, Martin, Cyrus
 Sorteburg, A. O., Louisburg
 Spangrud, Carl N., Starbuck
 Stock, Carl, Kensington
 Strand, John, Donnelly
 Sullivan, John, Morris
 Swenson, Emil, Clinton
 Tack, Earl, Montevideo
 Thimmesch, Bernard, Osakis
 Tolefson, Elmer, Madison
 Vaala, Louis, Madison
 Waller, August, Donnelly
 Weltzin, Oscar, Donnelly

Teachers' Training School, Summer, 1916—147

Abrahamson, Alma, Hanley Falls
 Anderson, Edith, Farwell
 Anderson, Emma, Morris
 Anderson, Teckla, Evansville
 Bailey, Grace, Eagle Bend
 Barsness, Anna, Glenwood

Barton, Louise, Herman
 Blondheim, Mayme, Morris
 Bohannan, Bessie, Beardsley
 Bolstad, Clara, Dawson
 Braaten, Selma, Starbuck
 Cairney, Julia, Morris

Carney, Elizabeth, Danvers
 Chapman, Annetta, Ortonville
 Christianson, Bessie, Starbuck
 Clark, Hannah, Carlos
 Claussen, Clara, New London
 Coleman, Mayme, Morris
 Condon, Elizabeth, Graceville
 Conlogue, Gertrude, Danvers
 Danielson, Ruth, Cyrus
 Dyrstad, Gina, Glenwood
 Eldred, Evelyn, Ortonville
 Erickson, Cora, Fergus Falls
 Eul, Esther, Morris
 Feda, Amelia, Carlos
 Feda, Emma, Carlos
 Fenton, Minnie, Hancock
 Ferrell, Evelyn, Morris
 Finstad, Olga, Starbuck
 Flatner, Irene, Morris
 Gallagher, Loretta, Benson
 Gorder, Evelyn, Starbuck
 Gorder, Victor, Starbuck
 Gregoire, Mary, DeGraff
 Haldorson, Elma, Hancock
 Haldorson, Tillie, Hancock
 Halvorson, Jennie, New London
 Hamilton, Lois, Alberta
 Hanrahan, Mary, Morris
 Hanson, Ella, Chokio
 Hatlelid, Anna, Cyrus
 Herbrandson, Ingeborg, Brooten
 Hilleren, Susia, Benson
 Hippe, Inga, Cyrus
 Hjort, Christine, Willmar
 Holte, Cora, Starbuck
 Homme, Agnes, Glenwood
 Honzo, Violet, Chokio
 Hustad, Manada, Kensington
 Irgens, Veda, Farwell
 Jacobson, Bergetta, Bird Island
 Jensen, Hilda, Granite Falls
 Johnson, Ellen, Alexandria
 Johnson, Elvera, Alexandria
 Johnson, Hanna, Benson
 Johnson, Hilma, Benson
 Just, Mary, Morris
 Kaldahl, Earnest, Glenwood
 Kane, Anna, Morris
 Kenna, Helen, Danvers
 Klévan, Pauline, Starbuck
 Knutson, Helga, Garfield
 Knutson, Rose, Garfield
 Koll, Theresa, Breckenridge
 Kreidler, Lola, Herman
 Landmark, Mabel, Benson
 Lowry, Bessie, Dassel
 Lowry, Jessie, Dassel
 Lukes, Anthon, Long Prairie
 Lund, Olive, Morris
 Lyons, Lloyd, Osakis
 Lyslo, Emma, Benson
 McCarthy, Mary, Morris
 McFarlane, Margaret, Sauk Center
 McIlravie, Isabel, Alexandria
 McIlravie, Tessie, Alexandria
 McTighe, Agnes, Holloway
 Maloney, Agnes, Morris
 Margeson, Mable, Kensington
 Meyer, Carolyn, Parkers Prairie
 Michels, Agnes, Morris
 Michels, Rose, Morris
 Modahl, Alice, Alexandria
 Moen, Alma, Terrace
 Moen, Ella, Terrace
 Moen, Mabel, Glenwood
 Mollman, Charlotte, Herman
 Murphy, Ella, Morris
 Nelson, Adelia, Cottonwood
 Nelson, Clara M., Clontarf
 Nelson, Harry, Morris
 Nelson, Ingeborg, Svea
 Nelson, Mary E., Grove City
 Nelson, Rose J., Hancock
 Norem, Mary, Alexandria
 Norsen, Esther, Wheaton
 Norton, Marie, Morris
 Norton, Viola, Morris
 Nygaard, Constance, Starbuck
 Nygaard, Nora, Starbuck
 Odden, Gunda, Echo
 Olen, Othelia, Benson
 Olson, Anna G., Alexandria
 Olson, Anna O., Belgrade
 Olson, Huldah, Stonington, Mich.
 Olson, Jennie, Belgrade
 Olson, Olga, Montevideo
 Opheim, Edwin, Cyrus
 Ostlund, Victor, Hoffman
 Palmer, Mabel, Sauk Center
 Palmer, Mary, Sauk Center
 Pederson, Elsie, Hanley Falls
 Philips, Mabel, Big Stone, S. D.
 Prince, Blanch, Herman
 Quackenbush, Ada, Chokio
 Quam, Berdina, Glenwood
 Raasch, Anna, Alberta
 Ranum, Helen, Starbuck
 Reisrud, Agnes, Starbuck
 Reitan, Marion, Hancock
 Ring, Agnes, Morris
 Sanders, Clara, Hoffman
 Satterlee, Esther, Montevideo
 Sauter, Barbara, Morris
 Sauter, Bathilda, Morris
 Sauter, Louise, Morris
 Schlegel, Iva, Chokio
 Schoonover, Blanche, Norcross
 Shepard, Helen, Morris

Simonson, Mabel, Hanley Falls
 Slette, Marie, Cottonwood
 Smart, Mary, Scales Mound, Ill.
 Stoneberg, Lawrence, Morris
 Stoneberg, Olga, Morris
 Susag, Mabel, Glenwood
 Swenson, Elizabeth, Evansville
 Tarum, Mae, Eagle Bend
 Tax, Louise, Osakis

Thompson, Gladys, Starbuck
 Thompson, Selma, Starbuck
 Tonnesens, Elizabeth, Alexandria
 Toombs, Grace, Glenwood
 Torpy, Maud, Morris
 Tripp, Mildred, Morris
 Ulstad, Augusta, Madison
 Wagner, Tena, Morris

Junior Short Course, 1917—32

Anderson, Josephine, Kerkhoven
 Boots, John, Johnson
 Brown, Harold, Sauk Center
 Derby, Francis, Herman
 Durdall, Henry, Hancock
 Ellingson, Elmer, Cyrus
 Estenson, Ruth, Hancock
 Galbraith, Virgil, Sauk Center
 Goodell, Kenneth, Herman
 Hoard, Irene, Herman
 Hoard, May, Herman
 Hulgren, Kermit, Donnelly
 Johnsrud, Stella, Herman
 Larson, Florence, Herman
 McCollier, Raymond, Herman
 Metzger, Ellen, Chokio

Nelson, Viola, Herman
 Ostby, Emma, Kerkhoven
 Otting, Irene, Herman
 Pierson, Lawrence, Herman
 Pierson, Myrtle, Herman
 Ritzschke, Bertha, Herman
 Ritzschke, Oscar, Herman
 Rotto, Isaac, Farwell
 Sandvig, Clara, Brooten
 Schuler, Magna, Herman
 Solvie, Ole, Cyrus
 Solvie, Valborg, Cyrus
 Stoneberg, Bertie, Herman
 Strong, Nydia, Herman
 Tollefson, Leonard, Farwell
 Ziebarth, Gertrude, Herman

Mothers' Week, 1916—36

Albers, Mrs. W. F., Donnelly
 Andert, Mrs. A. W., Alberta
 Barsness, Mrs. Albert, Starbuck
 Barsness, Mrs. Edwin, Starbuck
 Braun, Mrs. B., Alberta
 Desso, Mrs. F. A., Ortonville
 Eystad, Mrs. E., Alberta
 Farwell, Mrs. G. H., Alberta
 Fobey, Mrs. P. H., Alberta
 Fourgeron, Mrs. G. H., Alberta
 Ghort, Mrs. H., Alberta
 Ginnow, Mrs. E., Alberta
 Grafelman, Mrs. Fred, Alberta
 Gulbrandson, Mrs. O., Alberta
 Hodd, Mrs. F. L., Alberta
 Hustad, Mrs. L. P., Kensington
 Johnson, Mrs. Adolph, Hancock
 Larson, Mrs. L. A., Kensington

Larson, Mrs. L. M., Alberta
 Lemmerman, Mrs. H., Alberta
 Lippert, Mrs. W. P., Alberta
 Maanum, Mrs. F. A., Alberta
 Nordby, Mrs. L. P., Alberta
 Pederson, Mrs. W. F., Alberta
 Reistrud, Mrs. C. L., Starbuck
 Roberts, Mrs. C. W., Alberta
 Rotto, Mrs. J. L., Farwell
 Schultz, Mrs. J. A., Alberta
 Shippen, Mrs. Lee, Cyrus
 Solvie, Mrs. Edwin J., Hancock
 Solvie, Mrs. Martin, Cyrus
 Solvie, Mrs. Olaf, Cyrus
 Stewart, Mrs. G. H., Alberta
 Stock, Mrs. John, Kensington
 Thompson, Mrs. E. E., Starbuck
 Tollefson, Mrs. F., Farwell

Short Course in Embalming—42

Arnoldt, Otto, Janesville
 Benson, Ben E., Fergus Falls
 Berntsen, John F., Andover, S. D.
 Boxell, George, Howard Lake
 Britts, Ross W., Mantorville

Buchinger, Fredrick J., Minneapolis
 Elliott, William H., Minneapolis
 Erickson, Erick E., Braham
 Ferguson, Mrs. Bertha T., Minneapolis
 Foley, Michael V., Plainview

Gorham, Joseph E., Minneapolis
 Graf, Fred H., Minneapolis
 Greene, Stanley L., Rutland, N. D.
 Greer, Charles E., Iroquois, S. D.
 Guthunz, Henry, Jr., St. Paul
 Harkness, Ernest E., Rochester
 Heidenreich, Michael J., St. Paul
 Johnson, Elmer A., Belgrade
 Kelly, John J., Mankato
 Knott, Will D., Bristol, S. D.
 Koontz, Dwight F., Glenville
 Koop, Severin E., Brainerd
 Kozlak, Joseph A., Minneapolis
 Kraft, Leo R., Worthington
 Kroke, James O., Staples
 Langren, Lucia E., Litchfield

Lewis, J. Best, Palmyra, Mo.
 Lewis, Owen H., Lake Crystal
 Lindberg, Harry, Minneapolis
 Marti, Walter J., Sleepy Eye
 Oleson, Wilfred D., Isanti
 Pederson, Orland, Fosston
 Peterson, Alfred H., Waubun
 Peterson, Alfred T., Willmar
 Pluemer, Harry E., Potosi, Wis.
 Quist, Walter P., Minneapolis
 Rappe, Reuben H., Wells
 Schorn, Henry A., St. Paul
 Srb, Gilbert J., Dodge, Neb.
 Tyrholm, Harold T., New Richland
 Ulland, Obed C., Blooming Prairie
 Willett, Elmer, Minneapolis

GENERAL EXTENSION DIVISION

Minneapolis Business Courses—564

Ackley, Henry B.	Blair, Raymond E.	Carr, P. H.
Akin, Theo. W.	Boblett, G. I.	Carrier, Elmer P.
Albee, Thersa D.	Boege, John H.	Carrington, Henry J.
Alberg, Albert	Bofferding, Eugene	Cary, Walter E.
Alvord, S. W.	Bolduc, A. T.	Cassidy, T. G.
Amquist, Halvor Willet	Booker, A. W.	Ceder, Axel
Anderson, A. H.	Boor, William E.	Charlquist, F. R.
Anderson, E. T.	Borup, A. H.	Chase, Ray L.
Anderson, Edwin W.	Boulay, J. A.	Cheney, R. C.
Anderson, Emil T.	Boysen, Max C.	Christoferson, George W.
Anderson, F. W.	Brandt, L. Basil	Chute, Robert W.
Anderson, G. E.	Brant, L. B.	Clark, Norman E.
Anderson, Oscar W.	Braun, Linus A.	Clark, Richard R.
Anderson, R. A.	Braunstein, Harry A.	Clausen, L. A.
Anderson, Walter L.	Breager, Frank I.	Clemens, John B.
Antidel, E. G.	Brick, Paul	Clifford, Ralph E.
Armstrong, W. B.	Bright, Walter	Cody, E. M.
Arness, O. J.	Brisley, Warren B.	Cohn, Robert R.
Asselin, R. A.	Brittin, Lewis H.	Colle, Alfred
Atkin, A. G.	Brooks, Isabel	Collins, Alfred Leroy
Austin, Ella M.	Brown, H. C.	Collins, J. E.
Badger, Lester R.	Brown, Paul H.	Condit, L. A.
Bamcard, F. M.	Brown, Stewart W.	Confeld, David J.
Bardill, O. H.	Brown, Thomas C. W.	Connoy, John J.
Barney, Hadwen C.	Browne, Lanfear M.	Cotton, Alfred J.
Barr, Nick A.	Burbott, O. C.	Cullen, Arthur W.
Barton, A. D.	Burgi, Fred	Cunningham, Thomas E.
Bashair, Edith F.	Burkleo, Jane	Curran, Clare L.
Bates, Curtis	Burns, G. A.	Curtis, E. B.
Bayley, C. S.	Burns, W. J.	Dahl, C. J.
Beach, Florence	Byers, Paul H.	Danforth, M. L.
Beery, Charles B.	Cardozo, Ralph N.	Davis, Charles A.
Beinhorn, Genevieve	Carlson, Basil N.	Davis, Richard R.
Berglund, H. W.	Carlson, C. A.	Davison, F. A.
Berry, Harry Edwin	Carlson, C. W.	Dedrichtson, Harold E.
Bettridge, John E.	Carlson, G. H.	Derziel, Charlotte L.
Bigford, S. J.	Carlton, Arthur E.	De St. Croix, Lawrence
Blackman, H. E.	Carlton, Ralph I.	Diekmann, William H.

- Dillahunt, W. G.
 Dirba, Charles
 Dixon, H. S.
 Donlin, Joseph C.
 Dumas, John
 Dunkel, William J.
 Dunnigan, T. J.
 De Rabideaux, St. M.
 Earenfight, Linnette G.
 Eastman, Henry I.
 Edwards, Miss L. M.
 Eide, Alf
 Eldredge, E. T.
 Ellinger, William H.
 Ellis, Harris
 Ellison, Earl A.
 Englund, R. A.
 Erickson, E. J.
 Erickson, Herbert Garfield
 Estenson, Roy
 Evans, Edward E.
 Exworthy, Frances Harriet
 Fargo, Charles H.
 Farmer, E. H.
 Farrington, Bessie
 Felt, H. P.
 Ferguson, George A.
 Ferman, Joseph Walter
 Fessler, E. J.
 Fitzsimmons, S. J.
 Flanders, Mark P.
 Foley, Sarah
 Folsom, Edgar P.
 Fontaine, Leo P.
 Forester, Joseph A.
 Forschler, W. S.
 France, Alexander H.
 Fraser, Norman D.
 Fredlund, Paul
 Freeman, Howard H.
 Gallagher, A. J.
 Galvin, Eugene F.
 Gans, Ernest G.
 Gerde, A. M.
 Gerrish, F. Earl
 Gerth, H. J.
 Gibbons, Frank
 Giguere, George A.
 Gilbert, Carl G.
 Gilman, E. Dow
 Godley, Leon M.
 Goldberg, Isidore G.
 Goldberg, Zell
 Gorman, H. J.
 Graham, J. L.
 Greenberg, Herman
 Greene, Carl
 Greig, John E.
 Greiner, M. E.
 Guernsey, Newell Forbes
 Gurney, E. A.
 Gustafson, Arnold
 Gustafson, Victoria E.
 Gustafson, Walter J.
 Guttersen, Milton E.
 Haberland, G. W.
 Hadden, George N.
 Hagg, Arthur D.
 Hale, H. C.
 Hallman, W. C.
 Hamburg, W. C.
 Hancock, Archie
 Hannon, J. E.
 Hansen, George
 Hanson, Anton G.
 Harris, Sally P.
 Hartsough, Douglas J.
 Haslund, Arthur
 Hastie, A. E.
 Hauge, Arthur W.
 Hawkey, Hollis R.
 Hawkinson, Alieda C.
 Hawley, Harold H.
 Haynes, R. W.
 Hedquist, R. J.
 Heitsmith, Althea
 Hendricks, John
 Henry, Louis E.
 Hewetson, B.
 Hillgren, H. A.
 Hillman, P. L.
 Hittleman, Charles W.
 Hobbs, Arnold
 Hochthausen, Adolph L.
 Hodge, Albert C.
 Hodgins, Howard H.
 Hoffman, J. W.
 Holm, H. S.
 Holt, Clara Elizabeth
 Holt, Walter E.
 Horan, William R.
 Horstinson, Fred A.
 Hughes, C. F.
 Hurlburt, Harold F.
 Hyman, Philip N.
 Jackson, Clifford
 Jackson, W. J.
 Jacobson, Henry Norman
 Jacques, Grace
 James, F. G. C.
 Jarboe, J. F.
 Javoscak, Jack P.
 Jensen, Carl J.
 Jensen, Ernest W.
 Johnsen, Jennie A.
 Johnson, Arthur
 Johnson, Arthur C.
 Johnson, Arthur E.
 Johnson, A. E.
 Johnson, A. H.
 Johnson, A. R. H.
 Johnson, Clarence H.
 Johnson, C. M.
 Johnson, Ernest
 Johnson, Ernest E.
 Johnson, Ewan M.
 Johnson, Fred B.
 Johnson, F. E.
 Johnson, Helmer E.
 Johnson, Leander H.
 Johnson, Lillian P.
 Johnson, Nellie G.
 Johnson, O. Einär
 Johnson, Roy L.
 Johnson, William E.
 Jones, David G.
 Jones, David Thomas
 Jones, Earle R.
 Jones, Edward C.
 Jones, William R.
 Juvred, E. C.
 Kassube, Frank
 Keeman, Anten
 Kellberg, Ernest H.
 Kelly, M. J.
 Kennedy, Ammie M.
 Kidwell, R. B.
 King, F. E.
 Kingbay, J. B.
 Klason, Iver
 Klingensmith, Walter
 Knights, Ingram K.
 Knutson, Harry M.
 Koch, A. J.
 Koch, C. C.
 Kramer, William A.
 Krieg, W. J.
 Krone, Fred O.
 Kuehn, Henry Edward
 La Grange, Myron H.
 Lambert, Harry E.
 Lambert, R. W.
 Lane, J. Francis
 Lange, I. A.
 Larson, Agnes M.
 Larson, C. E.
 Larson, Clara
 Larson, Edwin A.
 Larson, Walter I.
 Lebeis, Clara F.
 Le Blanc, William
 Lee, George W.
 Lee, Reynold A.
 Lerner, Aaron H.
 Leitzman, Fred N.
 Lemm, Arthur
 Levien, Hazel A. G.

- Leviau, Verne C.
 Lewis, Appolonia
 Limberg, Paul H.
 Linder, H. W.
 Lindquist, Harry C.
 Lineburg, George F.
 Linne, Award
 Loberg, James M.
 Lockwood, Ralph P.
 Long, Louis Woodford
 Longworth, H. W.
 Ludke, Rose G.
 Lund, George A.
 Lundberg, Elsie M.
 Lundberg, Henry C.
 Lundgren, Paul J.
 MacDonald, E. A.
 McDonald, Sarah A.
 McElroy, Virginia Eleanor
 McHenry, Robert D.
 McInerney, Joseph
 McKewin, G. L.
 McLaughlin, Howard James
 McLaughlin, N.
 McLeod, Howard L.
 McNamara, J. R.
 Magee, O. E.
 Maguire, Irby A.
 Mandel, David Alexander
 Marcus, S. A.
 Marshall, Lloyd
 Martin, J. Miles
 Martinsen, Arnold B.
 Martinson, C. O.
 Mathews, John B.
 Matson, Verna
 Matthews, A. G.
 Meek, Mabel F.
 Meeker, Dean W.
 Meighan, J. J.
 Melamed, Louis
 Melton, Solon
 Michel, Clarence
 Michel, George A.
 Miller, C. R.
 Miller, O. H.
 Mills, G. A.
 Mitchell, George Lindsey
 Moe, James Odin
 Monasch, Jerome A.
 Monasch, Stanley B.
 Monson, Aaron
 Monson, E. G.
 Montgomery, Glenn E.
 Montgomery, Lawrence P.
 Morrell, Andrew
 Mosher, H. Leon
 Muckley, Elizabeth
 Mulcahy, Thomas
- Mulligan, Leo B.
 Mulvahill, John Elmer
 Munson, Loren J.
 Nash, James Linn
 Nauman, Richard
 Nelson, A. M.
 Nelson, Walter Irving
 Neudeck, W. E.
 Neumeier, Chester J.
 Newcomb, Glenn F.
 Newcomb, O. L.
 Nickel, Walter A.
 Nilsen, M. N.
 Nimerfroh, G. B.
 Nolan, Merrill C.
 Nordquist, Richard
 Nordstrom, Leonard
 Norman, Bert
 Noot, Arthur F.
 Norrborn, Oscar E.
 Norris, Donald R.
 Nyman, Martin
 Obara, S.
 O'Brien, Frank C.
 O'Connell, John F.
 O'Keefe, Allan J.
 O'Sullivan, Timothy
 Olsen, Mabel Juliet
 Olsen, Paul
 Olson, C. J.
 Olson, Elmore J.
 Olson, Floyd
 Olson, T. J.
 Oman, C.
 Onion, Charles A.
 Orr, R. V.
 Ortle, Arthur B.
 Oswald, Arthur F.
 Owen, Paul E.
 Paarola, George R.
 Pankopf, Raymond Albert
 Parson, Wilfred D.
 Parsons, Henry A.
 Paul, Ernest
 Penberthy, Henry H.
 Perine, Edward G.
 Person, Joseph
 Perry, H. M.
 Peterson, Art C.
 Peterson, Caroline E.
 Peterson, Clarence A.
 Peterson, Flora
 Peterson, Reuben
 Peterson, Walter
 Phillips, Parry
 Pierce, Harold E.
 Pillow, Emily Y.
 Plant, John H.
 Podany, S. P.
- Polkingham, J. W.
 Polseek, James
 Porter, Charles A.
 Powers, Edna M.
 Preus, Paul A.
 Prince, Edward G.
 Prisch, H. W.
 Pritchard, Hugh
 Provost, J. A.
 Purdham, Plummer
 Ralph, Harry W.
 Raymer, W. H.
 Read, William
 Reak, Lawrence D.
 Reed, George J.
 Rhea, Harold Hart
 Rickel, Francis J.
 Rickmire, P. L.
 Riecki, August
 Riley, F. H.
 Robins, John C.
 Roden, Thomas A.
 Rodgers, Frank A.
 Rodlum, Troy M.
 Roll, Helen
 Rose, Carroll H.
 Rose, J. S.
 Rotella, Joseph
 Roterung, Victor F.
 Ruben, Albert G.
 Russell, Ray E.
 Rutstrum, Caleri
 Rychman, Joseph
 Rydell, Edmund T.
 Rye, Clarence S.
 Rye, James A.
 Sage, Warren E.
 Salland, J. F.
 Sandahl, Harold E.
 Sande, Edwin
 Sandgren, Arthur N.
 Sandgren, Rudolph T.
 Sanford, Edward H.
 Scharf, Elmer J.
 Schonebaum, Theodore H.
 Schmal, G. P.
 Schultz, Henry F.
 Schwab, Martin
 Schwartz, Alfred B.
 Schwartz, S.
 Scott, K. C.
 Searle, Clinton E.
 Segelbaum, Charles S. M.
 Sharbach, Gordon
 Shattuck, Irvine E.
 Shedd, Franklin
 Sher, Ray L.
 Sheridan, Charles R.
 Silber, Mary I.

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|------------------------|-------------------------|-------------------------|
| Simonson, Adolph C. | Thompson, Edward | Weaver, Eglantine M. |
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- Herchmer, Cordelia
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 Kimball, Florence
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 Taylor, Fannie E.
 Teeter, Addie M.
 Teeter, Clo V.
 Ter Louw, W. H.
 Terry, Stephen N.
 Thoorsell, Emelia
 Thomas, Lucy
 Thomas, Mary E.
 Thomas, Miriam E.
 Thompson, Barbara Anna
 Thompson, Charles S.
 Thompson, Maud C.
 Thompson, Dr. Robert
 Thompson, Ruth Gage
 Thomson, Mrs. Agnes B.

- | | | |
|------------------------|------------------------|---------------------|
| Thomson, Elizabeth | Wallace, Frances | Whitney, Helen |
| Thorshaug, Olag | Waller, Lulu E. | Wick, Milton |
| Thurston, Adelaide | Walquist, Ann | Wicks, Judson L. |
| Tice, Ethel A. | Walters, Jessie V. | Wilkins, Mary L. |
| Tilden, Josephine E. | Walters, William N. | Wilkinson, Sarah H. |
| Tild-n, Rose E. | Ward, Susanna R. | Willard, Mary L. |
| Tillisch, Mary A. | Warner, F. Russell | Wilson, Ida L. |
| Tinkham, Bertha | Warwick, Margaret | Wilson, Vincent |
| Tobin, Marie C. | Waters, Laura A. | Wimber, Mary M. |
| Tomlinson, Bessie A. | Watkins, Lena Dell | Winslow, W. M. |
| Towler, Mary B. | Watson, H. O. | Winter, Winifred L. |
| Treadgold, Nell M. | Watson, Louise | Wohlgemuth, Anna |
| Trufant, Nellie | Watson, R. O. | Wolean, Alma B. |
| Tryon, W. E. | Watts, Effie E. | Wolfe, Florence |
| Tuahy, Katherine E. | Way, Marjorie | Wolfe, Vera |
| Turritin, Mary E. | Weatherhead, Louise C. | Wolfsberg, May E. |
| Twombly, M. Louise | Weber, Mary L. | Wood, Adelia N. |
| Ulbricht, Emma A. | Webster, Paul D. | Wood, Harriet |
| Underdahl, Lena | Weidner, Rose B. | Wood, S. V. |
| Urquhart, Jean | Welch, Richard D. | Wood, Stella |
| Valley, Rose V. | Wendell, Ida Marie | Woodford, Constance |
| Van Camp, Kate | Wentz, Anna | Woodruff, Pearl E. |
| Van Tuyl, Mrs. C. W. | Wentz, Edith | Woodward, Agnes Y. |
| Vaughn, Julia H. | Wenz, Arthur H. | Woodward, Charles |
| Voight, Alfrida H. | Wenz, Russell C. | Wright, Clara A. |
| Von Rohr, Lucy E. | Werket, Inga | Wyman, Ruth G. |
| Von Storke, Polly | West, Alice M. | Yahr, Cora |
| Voswenkel, Darsline E. | Westcott, Blanch A. | Yankoski, Frances |
| Waite, Beatrice M. | Westlund, Mary E. | Younker, Bessie E. |
| Waiste, Lucy B. | Wheeler, Carrie M. | Zickrick, Theodore |
| Walker, Miner A. | Wheeler, Eva G. | Zierold, Arthur A. |
| Wall, Stephen F. | White, Anabel | Zimmerman, Sarah |
| Wallace, Dora B. | White, Zada A. | |

MINNEAPOLIS ENGINEERING COURSES—168

- | | | |
|----------------------|----------------------|----------------------|
| Allen, W. E. | Christianson, Sigurd | Gerder, Robert L. |
| Alton, Albert R. | Cleworth, Frank | Goodwin, W. R. |
| Alton, William | Colberg, James J. | Grabner, Walter |
| Amidon, P. N. | Coleman, William P. | Grant, Mabel K. |
| Anderson, G. A. | Coolidge, R. A. | Gronvalle, John O. |
| Anderson, P. W. | Conoling, Charles N. | Gunderson, Harold S. |
| Baptiste, Noel | Corwin, J. R. | Hafner, J. M. |
| Batzli, Oscar | Cory, H. H. | Hahn, Stanley V. |
| Benson, R. E. | Cronon, Edmund D. | Hanson, Farley Le R. |
| Bishop, W. E. | Dafron, Fayette A. | Haupt, Theodore G. |
| Blade, J. Robert | Dahl, George L. | Hauskey, H. L. |
| Black, Joseph D. | Dean, Charles H. | Heath, Donald C. |
| Blum, John | Depel, Herbert O. | Hemphill, Arthur D. |
| Boardman, Douglas E. | Donald, D. C. | Hepp, Maylon H. |
| Bratberg, Anton | Donnelle, Samuel R. | Herman, C. Albert |
| Breneman, Lucis | Ebin, Louis | Herman, Maurice D. |
| Brinkman, A. L. | Enzer, Carl A. | Herrick, Arne |
| Brown, Mark G. | Flecke, Albert | Hill, Elmer M. |
| Buckett, Leslie D. | Fornell, H. W. | Hofmann, William C. |
| Buell, E. A. | Frank, Carl W. | Hoglin, Ole J. |
| Carlson, C. A. | Fullenwider, T. I. | Houghtaling, Jay |
| Carman, Ernest C. | Gauger, Paul Charles | Huston, Robert A. |
| Charlton, Leslie | Gauger, R. R. | Ingraham, Harry A. |

Jacobson, David	Loftfield, John E.	Peusch, Arthur F.
Johansen, Henry	Lorberbaum, Max	Radant, Alfred E.
Johnson, Arthur K.	Lynch, Thomas F.	Reever, H. L.
Johnson, Axel C.	McArthur, Francis	Robinson, R. B.
Johnson, Elmer A.	McGuire, John J.	Sanderson, Earle M.
Johnson, Edward J.	Macomber, William K.	Scharpf, Elmer L.
Johnson, Fred J.	Mahoney, G. P.	Schelen, J. Elmer
Johnson, Helge R.	Marking, C. A.	Schilling, Charles W.
Johnson, Minard	Mayhew, J. H.	Schultz, A. L.
Johnson, Nels O.	Meyers, R. F.	Schultz, Theodore
Kaercher, George E.	Miller, Harold L.	Seelert, Frederic W.
Kitzler, Philip	Mills, H. W., Jr.	Shields, Joseph J.
Klees, Emil	Molmsten, P. C.	Skooglin, Howard
Klingensmith, Frank	Moore, H. C.	Skarnes, Jay A.
Knight, Ralph J.	Moore, O. F.	Skarnes, R. F.
Knutson, Morgan	Mosher, R. W.	Smith, Arthur J.
Kortsan, Frank A.	Murray, Harry M.	Stachle, Gilbert C.
Krapp, Henry P.	Nelson, David	Sterling, Lawrence
La Du, Clarence A.	Nelson, John W.	Stowe, Charles
Lahtinen, William E.	Ness, Norman R.	Strom, Fred A.
Larson, Albert O.	Nordstrom, Carl	Tell, A. W.
Larson, Arnold	Noren, Clifford	Thomson, Harold
Larson, Ernest O.	Overlock, Russell F.	Thomson, H.
Larson, E. W.	Peck, Victor L.	Tomlinson, William
Larson, Hans C.	Peterson, Harvey F.	Trask, Donald M.
Larson, Nathan	Peterson, Roy K.	Trierweiler, Domico
Lavers, Albert	Peterson, William A.	Troyer, H. Y.
Lavers, Wallace	Peonidas, Phillip	Urth, Edwin
Lavine, E. W.	Pickard, L. W.	Walquist, John A.
Laurence, Paul J.	Pieh, Lillian M.	Weidt, Alun
Levin, J. D.	Pitt, Samuel W.	Wolft, Fred P.
Linden, Chris J.	Potell, Charles	Woyejpha, James
Lindsay, Gordon	Potter, De Loss M.	Yarnell, Clyde S.

MINNEAPOLIS LAW COURSES—28

Bush, Galem E.	Horrigan, J. F.	Mogg, Herbert W.
Card, Myrlin R.	Johnson, Roy J.	Mortenson, L. J.
Carey, John R.	Kernan, Thomas H.	Norton, Hugh V.
Comaford, Ralph H.	Kvasse, G. J.	Peterson, C. W.
Comer, Kenneth N.	La Plant, Frederick P.	Peterson, Iver E.
Conhery, Edwin	Lawrence, O. A.	Preus, Herman A.
Grice, Walter A.	McCluskey, Grant C.	Salesberry, Pearl A.
Grubbs, James Victor	McLimons, I. J.	Seymour, Burton W.
Hanson, William Edward	Meyer, Joseph	Thomas, C. Forrest
Haugen, Donald J.		

ST. PAUL BUSINESS COURSES—104

Adams, Lou M.	Angell, J. F.	Bergstrand, W. A.
Adams, Roman M.	Anthony, Theodore M.	Billstein, Lewis P.
Algren, Theodore N.	Arth, Frank J.	Blandin, A. A.
Allen, Phillip C.	Baker, O.	Blase, Esther M.
Anderson, C. A.	Baillie, Monroe	Bohen, Mark D.
Anderson, M. E.	Barnes, F. A.	Borovansky, I. J.
Anderson, R. W.	Beinhorn, Genevieve	Boyer, Merl
Anderson, W. L.	Benson, Ray J.	Brokaw, Frederick A.
Angell, Frank M.	Berg, R. F.	Buckham, C. J.

- Buetow, Herbert
 Bystrom, Richard A.
 Cane, Thomas J.
 Carlson, A. G.
 Carlson, C. R.
 Carroll, Charles P.
 Castner, Paul
 Cavitzel, J. A.
 Chase, Herbert F.
 Cherry, George W.
 Christ, Robert
 Christensen, Le Roy C.
 Clapp, W. D.
 Clark, Paul G.
 Coan, M. E.
 Cohn, Ben
 Colliton, R. A.
 Cottor, Emil F.
 Crowl, Oliver
 Danielson, Andrew W.
 Daus, P. E.
 Davidson, E. H.
 Dedon, Clarence L.
 Delander, B. T.
 Delander, N. P.
 Delaney, F. H.
 Doherty, G. J.
 Donnelly, Ignatius
 Doran, Lawrence
 Driscoll, Paul F.
 Driver, Elizabeth J.
 Duff, J. W.
 Dugan, Harry R.
 Eckenstein, Robert
 Eichhorn, C. H.
 Ehlers, Edwin
 Ekstrom, Charles E.
 Elmer, Carl A.
 Elmquist, Nan C.
 Emery, Grace
 Erbling, A. A.
 Erickson, John
 Fitzpatrick, E. R.
 Fleming, James J.
 Ford, Walter H.
 Foss, L. N.
 Fox, L. A.
 Frederick, S. B.
 Fritsch, Alma
 Fuller, Charles E., Jr.
 Gadacz, Stanley J.
 Gamble, John
 Gehan, J. P.
 George, Charles W.
 Gerringier, J. C.
 Glaunce, Ernst
 Gode, Fred J.
 Goff, F. W.
 Goodrich, Charles W.
 Goodson, Curtis C.
 Gordon, Louis H.
 Gothe, Oscar E.
 Green, Edward F.
 Green, Q. M.
 Greenfield, Joseph W., Jr.
 Griffin, C. B.
 Grove, Harold A.
 Gruber, Jeffrey
 Gullickson, O. L.
 Hamper, Thomas J.
 Hane, Ralph
 Hanson, Earl S.
 Harrington, Gerry
 Harvey, Clifford
 Haselbeck, H.
 Heard, Charles
 Henly, Elkan N.
 Henly, Harold J.
 Hess, George H., Jr.
 Hoerjts, Vincent J.
 Hoffman, Nathan W.
 Hoklas, H. W.
 Honebrink, W.
 Horn, Dora
 Horton, W. S.
 Hovig, Lawrence H.
 Hueller, David S.
 Huelster, Howard N.
 Hunt, Herbert
 Iffert, Carl N.
 Jacksen, Leo B.
 Jelinski, Joseph N.
 Jensen, Archie O.
 John, R. P.
 Johnson, Arthur G.
 Johnson, Gilbert O.
 Johnson, Harry L.
 Johnson, J. B.
 Kasmirski, Aloysius W.
 Kelly, Tracy
 Kerker, Thomas
 Kirn, H. E.
 Klawter, Frederick C.
 Knebel, Robert L.
 Knudson, Walter
 Kopp, George M.
 Krieg, W. S.
 Kueffner, William R.
 Kulp, D. E.
 Landman, Norman
 Lang, F. W.
 Larson, Edward J.
 Lawrence, Adolph A.
 Leaf, Edward N.
 Leavitt, F. A.
 Lemke, F. J.
 Lewis, Edward C.
 Lee, Joseph
 Lillengren, Harry
 Lilly, Lawrence
 Linnervoth, Sidney
 Ludke, Edward J.
 Lufkin, Hamilton
 McCullum, M. E.
 McCumber, K. H.
 McDermott, J. Daniel
 McEllistrem, Marcus
 McElweel, S. P.
 McGillick, John
 McNanmon, John T.
 McNece, A. W.
 Mahoney, J. K.
 Maier, Theodore
 Maley, C. A.
 Maley, Paul
 Marien, Pierre B.
 Maloney, William
 Martin, George P.
 Marriott, Edwin
 Marvin, William W.
 Matthews, Henry G.
 Maurer, Paul G.
 Melamed, M. L.
 Meyer, M. F.
 Miller, Herbert
 Miller, Harriet
 Miller, R. B.
 Minea, B. V.
 Mingaye, H. T.
 Montgomery, William S.
 Moritz, Ray W.
 Morrell, J.
 Mulliken, C. E.
 Mulliken, Walter F.
 Munson, August A.
 Munson, Clifford R.
 Neass, A. E.
 Nelson, D. P.
 Nelson, E. J.
 Nelson, Harold
 Nelson, Henry
 Nelson, Hugo E.
 Nelson, J. A.
 Nelson, J. Edwin
 Nelson, Martin A.
 Oas, Edward R.
 Oberg, Staffird L.
 Oberschulle, L.
 O'Connor, Thomas P.
 Olsen, Henry
 Olson, Frank
 Olson, George
 Olson, Orde C.
 Owen, G.
 Pabst, George W., Jr.
 Parsons, Axel Edward
 Patterson, D. K.

Pearson, Elmer	Schiffer, Meyer J.	Swan, I. J.
Pearson, Godfrey	Schilling, P. A.	Swanson, H. C.
Peterson, Arthur W.	Schulstad, Einar T.	Swanson, Albert
Peterson, George A.	Schulze, H. C.	Timmerman, A. H.
Peterson, Melvin A.	Shannon, Thomas J.	Thomson, Clyde
Peterson, Paul B.	Shapiro, A. H.	Thomssen, R. H.
Pettibone, E. M.	Shipstad, Harry	Thorson, G. H.
Pickering, Frank L.	Simerman, G. A.	Thorson, Oscar
Pihaly, Louis	Skaar, H. O.	Tobin, George L.
Prince, W. W.	Skok, Eugene L.	Ulsaker, M. O.
Proran, Godfrey	Sladek, A. L.	Van Brunt, L. J.
Quinn, S. J.	Sladek, Jerome C.	Vars, W. Keith
Quinn, T. L.	Smith, Leroy R.	Vernon, Arthur
Quirmbach, C. H.	Smith, Stanley J.	Wagner, William E.
Rangitsch, Frank J.	Spicker, W. E.	Ward, Pier C.
Reinhardt, H. A.	Spinn, Frank G.	Warn, A. W.
Reinking, Benjamin F.	Spitolske, Leon P.	Weigel, Ernest J.
Rice, J. M.	Staberg, James	Westfall, William G.
Ringins, Edward	Stiehm, A. W.	Wicker, O. A.
Ringold, William	Stodle, Nils	Williams, L. Stanley
Robertson, G. A.	Stoffel, John C.	Wilson, F.
Rosenthal, H.	Stoffel, John J.	Wolff, Otto
Rudcen, F. J.	Stolpestad, A.	Wood, George F.
Schaber, Harold P.	Struble, Dwight S.	Woods, Leon I.
Schaffelke, Henry A.	Stutzman, W. J.	

ST. PAUL COLLEGIATE COURSES—120

Allen, Harriet	Holland, Mary D.	Miller, William
Allen, Mildred	How, Lucy	Michaels, J. C.
Ames, Elizabeth	How, Mary W.	Myers, Olivia M.
Borden, Gertrude C.	Huspek, Louis	Newton, Millicent
Borerp, Sophie C.	Jackson, Mary Isabel	Palmquist, Axel F.
Brandt, R. B.	Johnson, Jennie U.	Parkinson, Laura D.
Brey, Florence	Johnston, Ida A.	Perry, Alice E.
Brill, Alice	Keppers, William M.	Pope, Emily H.
Brill, Edith	King, Margaret	Quin, Henry
Browns, Claire S.	Kinsey, Helen M.	Quinlan, Mrs. H. T.
Bruce, Ethel M.	Kneip, Agnes	Rockhaus, Henrietta
Buell, Irene Lucile	Larson, Helen Ingeborg	Rittle, Anna E.
Buell, Myra Whitney	Lessing, Albert J.	Roverud, Ella M.
Clark, Harry S.	Levine, J. A.	Ryan, Frances L.
Clinton, P. M.	Lewis, Margaret	Salisbury, L. J.
Converse, Lulu R.	Lillie, Florence E.	Sell, Mrs. John M.
Courteau, Stella	Lorch, Anna	Sell, John M.
Daley, Mary E.	Lowry, Edith P.	Sister Agnes M. Mahoney
Davies, Edith W.	Lowry, Ethelwyn	Sister Eleanore Michel
Driscoll, Charles B.	Lyksett, Sylvan L.	Sister Elizabeth M. Martens
Dunn, Teresa M.	McClellan, Mary F.	Sister Frances de Sales
Emery, Rhoda J.	McClure, Carol	Larpeur
Estby, Ellen	McMullen, Catherine H.	Sister Gregaria Schluter
Grant, Mary J.	McMurrin, Mrs. E.	Sister Jane Margaret
Ginsberg, Annie	McMurrin, J. P.	Cullinan
Hauser, William A.	Manlove, Mrs. Sarah S.	Sister Jeanne Marie
Hayes, H. J.	Mann, Mrs. Frederick	Sister Louise M. Lohmar
Heinze, Robert	March, Lulu	Sister Mary A. McCarthy
Hertz, Mrs. Esther	Marshall, E.	Sister Mary A. O'Connor
Hilbert, Mrs. P. A.	Maxwell, Oliver I.	Sister Mary A. Naughton
Hodapp, Marie	Miller, Omar	Sister Mary C. Shepard

Sister Mary F. Whaley	Smith, Mrs. E. Fay	Tobin, Marie
Sister Mary H. Pattner	Snell, George F.	Tolson, Edgar
Sister Mary T. Dougherty	Spencer, Ambrose P.	Van Winkle, John H.
Sister Mary V. O'Brien	Stone, R. E.	Vaughan, Bernard
Sister Rose E. Schmitz	Tallman, Kate E.	Vibert, Mrs. Frederick D.
Sister Rose J. Brennan	Taylor, William S.	Woodward, Lawrence B.
Slincy, Katherine A.		

ST. PAUL ENGINEERING COURSES—26

Appell, Caspar	Gray, Walter R.	Rosenthal, Leo
Appell, Henry J.	Johnston, Harrison	Schuelter, H. A.
Berger, J. Joseph	Keating, James E.	Simons, Harry
Berglund, R. W.	Ledy, Jay H.	Stanton, D. R.
Booraem, H.	Murtz, Rodney S.	Villaume, Julius
Culligan, F. H.	Rand, F. L.	Villaume, Louis
Curry, J. S.	Reiff, E. R.	Walsh, Edward
Donovan, J. S.	Reilly, Roger	Wirth, Henry
Drake, L. R.	Rich, George S.	

DULUTH BUSINESS COURSES—59

Adair, Mark W.	Frestedt, George W.	McKibbin, T. E.
Arneson, Anke E.	Friestad, Anker F.	Marjamaa, Jofet
Beschenbonel, Carl C.	Goss, Leander M.	Meaker, James, Jr.
Bethune, A. J.	Grogan, C. R.	Moore, Philip R.
Bischoff, Ray W.	Grogan, R. S.	Mostin, Erling
Brown, C. D.	Hansen, Fred W.	Olson, Charles
Carlson, C. A.	Hanson, J. W.	Olson M. J.
Chisholm, J. A.	Johnson, Arthur J.	Pattinson, C. R.
Christensen, Paul	Johnson, Frederick S.	Peterson, Arthur C.
Coughlin, Lester W.	Johnson, P. A.	Peterson, Carl W.
Crosby, Warren J.	Kane, Ralph W.	Pyfer, George A.
Culmer, W. C.	Kugler, Ernest	Sibbald, Bruce F.
Cyr, A. T.	Larrabee, J. W.	Smith, William M., Jr.
Denney, Harry J.	Laskowski, Frank S.	Stadler, A. E.
Drimple, Kenneth	Leonard, William H.	Spoeri, Elmer J.
Durham, K. W.	Linne, Elmer F.	Stinberg, E. W.
Evans, Charles G.	Linne, T. J.	Syverson, S. H.
Fischer, Sherwood S.	Lundgren, S. F.	Townsend, R. E.
Fossett, Charles R.	Lundstrom, Roy	Williams, Maude
Franséen, Carl G.	Lyle, Arthur J.	

DULUTH ENGINEERING COURSES—10

Anderson, Edward	Hamilton, Clarence E.	Scheuring, Frank W.
Blade, Eric	Lykholm, Lawrence	Schumann, John E. C.
Diers, Charles B.	Melgard, Alfred	Sullivan, Henry J.
Ericson, C. A.		

STILLWATER COLLEGIATE COURSES—31

Allenson, Hulda	Davis, Miss Frank C.	Holcombe, Selma V.
Boyle, Marie	Emerson, Nell E.	Jackson, Amanda J.
Brotherton, Sadie C.	Glennon, Gertrude	Jenks, Mary S.
Brown, Martha D.	Gowen, Olive E.	Johnston, W. W.
Converse, Mrs. Theodore	R. Haefner, Alice	Kottka, Evelyn
Costello, Ann G.	Hitchcock, Leila	Kunde, Louise H.

Lee, Dorothy D.
Lindbloom, Etta
McCallam, Antoinette
McCarthy, Alice M.
Marsh, Kate G.

Melby, Olga
Nolan, Mary A.
Payne, Cora Alice
Smith, Leila A.

Soule, Maude E.
Thompson, Pearl
Tollifson, Hazel
Wigren, Winnie

MERCHANTS' SHORT COURSE—91

Abey, Joseph A.
Agrinson, J. O.
Anderson, A.
Aure, Clarence
Baldwin, D. K.
Berg, M. I.
Bleziu, Marcus
Blix, A. J.
Bostrom, Edwin
Boyum, A. S.
Branes, Alfred G.
Braun, M. A.
Brereton, B. U.
Buss, Erwin F.
Buss, Mrs. Erwin F.
Campbell, Roland P.
Chapin, Harold F.
Chevrier, Horace
Connell, T. A.
Cornwall, Walter
Cummings, Gerald
Curle, John H.
Danulson, Carl J.
Dauk, George A.
Dawald, John J.
DeGroot, R. H.
Droll, F. M.
Ellingson, G. E.
Farsberg, A. T.
Fielland, Carl
Fischer, Ira B.
Fladager, Maurice
Fournier, William A.
Ganger, John H.
Ganz, Jay A.
Gould, C.
Gould, Mrs. C. F.
Grinager, C. F.
Gray, A. N.
Hanson, H. O.
Hanson, J. B.
Heljus, Albert

Herbst, H. H.
Herrmann, W. C.
Hoffman, B. M.
Hogen, Ralph
Holen, S. I.
Holm, A. E.
Holm, Victor E.
Ingebretzen, A. M.
Johnson, O. C.
Johnson, Norman
Johnson, N. A.
Johnson, T. Algot
Johnson, W. E.
Jones, George W.
Juni, William C.
Keator, B. C.
Klefstad, Gilman
Knutson, Harlan
Krebsboch, W. S.
Krueger, W. J.
Larson, Addie
Lindstrom, O. L.
Lodermeier, Karl V.
Lurdeman, Edward A.
McCom, N. M.
McCom, R. A.
Mahlum, Arnold
Mann, E. Earl
Markle, George W.
Marshall, H.
Medalia, H. A.
Meier, Peter
Moe, Hans
Moen, Helmer
Monson, William
Moses, B. F.
Myhre, John E.
Neessen, Arthur
Nelson, C. E.
Nelson, C. H.
Nelson, Gust
Nelson, U. F.

Ochs, Ferdinand
Olson, Eng
Parks, Earl S.
Pederson, L. C.
Peterson, Charles
Peterson, E. W.
Peterson, D. A.
Peterson, W. T.
Priske, W. A.
Pugsley, E. U.
Quarve, C. A.
Quarve, Levard
Ramsey, L. R.
Ranitscher, Harry
Rannard, Charles F.
Romstad, H. L.
Rorvick, Harold
Rubin, Alexander
Salo, Walter
Scheie, O. K.
Schottler, H. C.
Simon, N. W.
Sorenson, N. C.
Steel, N. M.
Stuart, Howard
Sullivan, M. F.
Swanson, F. G.
Swedback, C.
Swenson, Lewis
Swenson, William E.
Thomas, John B.
Thomas, W. L.
Thue, H. H.
Trygsbad, John
Tuten, T. T.
Varco, L. G.
Waller, E. C.
Wardeberg, E. O.
Whaley, E. R.
Wood, L. L.
Yocum, Mrs. C. J.

SHORT COURSE IN RED CROSS WORK—25

Bastian, Agnes I.
Cousins, Dorothy
Dale, Florence
Dight, Edith
Drake, Leah R.

Falconer, Mrs. Paul
Gibbon, Mrs. L. L.
Glottfelter, Helen
Griffin, Viola E.
Hutchinson, Abbie M.

Johnson, Mrs. Ella
Kemper, Mae J.
Mitchell, Constance
Nelson, Julia A.
Nicholson, Mrs. E. E.

O'Connell, Mary C.
Passer, Mrs. Irene
Peterson, Esther A.
Rivers, Elizabeth A.

Sharp, Julia A.
Strehlow, Harriet
Walters, Alice

Wind, Myrtle
Woolly, Mrs. Olive
Wray, Mrs. W. E.

SUMMARY OF ATTENDANCE

1916-17

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

	Men	Women	Total
Senior Class	87	194	281
Junior Class	181	232	413
Sophomore Class	364	325	689
Freshman Class	486	373	859
Mid-Year Freshman Class.....	34	26	60
Unclassed	38	83	121
Arts and Music Course—			
Senior Class	1	3	4
Junior Class .....	...	4	4
Sophomore Class	1	29	30
Freshman Class .....	...	20	20
	1,192	1,289	2,481

COLLEGE OF ENGINEERING AND ARCHITECTURE

	Men	Women	Total
Post-Senior Class—			
Civil	7	...	7
Electrical	14	...	14
Mechanical	5	...	5
	26	...	26
Senior Class—			
Civil	10	...	10
Electrical	21	...	21
Mechanical	22	...	22
Architecture	10	...	10
	63	...	63
Junior Class—			
Civil	25	...	25
Electrical	24	...	24
Mechanical	20	...	20
Architecture	7	...	7
General	6	...	6
	82	...	82
Sophomore Class—			
Civil	41	...	41
Electrical	51	...	51
Mechanical	35	...	35
Architecture	22	1	23
General	24	...	24
	173	1	174

Freshman Class—

	Men	Women	Total
Civil	20	...	20
Electrical	58	...	58
Mechanical	24	...	24
Architecture	22	3	25
General	12	...	12
Undecided	25	...	25
	161	3	164
Irregular Students	18	3	21
	523	7	530

DEPARTMENT OF AGRICULTURE

	Men	Women	Total
College of Agriculture—			
Agricultural Course:			
Senior Class	82	...	82
Junior Class	85	...	85
Sophomore Class	96	1	97
Freshman Class	104	1	105
Unclassed	13	...	13
	380	2	382
Home Economics Course:			
Senior Class .....	...	73	73
Junior Class .....	...	91	91
Sophomore Class .....	...	76	76
Freshman Class .....	...	69	69
Unclassed .....	...	16	16
	...	325	325
Forestry Course:			
Senior Class	3	...	3
Junior Class	10	...	10
Sophomore Class	11	...	11
Freshman Class	15	...	15
	39	...	39
College Summer School:			
Total registration	134	67	201
Duplicates registered 1916-17.....	38	36	74
Net registration	96	31	127
Total for College.....	515	358	873
Central School of Agriculture—			
Senior Class	154	60	214
Junior Class	121	52	173
Freshman Class	187	49	236
Unclassed	63	3	66
	526	163	689
Normal Course .....	...	12	12
Total for School.....	526	175	701

SUMMARY OF ATTENDANCE

283

Short Courses—

	Men	Women	Total
Dairy School:			
Butter and Cheese Makers' Course.....	77	...	77
Ice-Cream Makers' Course.....	27	...	27
	<hr/>	<hr/>	<hr/>
	104	...	104
Less duplicates	18	...	18
	<hr/>	<hr/>	<hr/>
	86	...	86

Farmers' and Home-Makers' Week

Short Course	1,324	307	1,631
Editors' Week Short Course.....	58	2	60
Boys' and Girls' Week Short Course.....	666	314	980
Traction Engineering Short Course.....	26	...	26
Teachers' Training School.....	135	1,007	1,142
Rural Life Conference	136	34	170
Extension Gymnasium	25	...	25
	<hr/>	<hr/>	<hr/>
Total for Short Courses.....	2,474	1,664	4,138
Less duplicates	42	7	49
	<hr/>	<hr/>	<hr/>
Net total	2,432	1,657	4,089
Total at University Farm.....	3,554	2,233	5,787
Less duplicates	223	76	299
	<hr/>	<hr/>	<hr/>
Net total	3,331	2,157	5,488

Northwest School of Agriculture—

School of Agriculture:			
Advanced Class	5	...	5
Teachers' Training Class.....	...	7	7
Senior Class	19	8	27
Junior Class	20	5	25
Freshman Class	103	33	136
	<hr/>	<hr/>	<hr/>
	147	53	200
Farmers' Week	477	25	502
Junior Short Course.....	51	9	60
Teachers' Training School.....	14	175	189
	<hr/>	<hr/>	<hr/>
Total for Short Courses.....	542	209	751
Total at Crookston.....	689	262	951
Less duplicates .....	...	3	3
	<hr/>	<hr/>	<hr/>
Net total	689	259	948

West Central School of Agriculture—

School of Agriculture:			
Fourth Year	2	1	3
Senior Class	15	14	29
Junior Class	12	11	23
Freshman Class	59	23	82
	<hr/>	<hr/>	<hr/>
	88	49	137

THE ANNUAL REGISTER

	Men	Women	Total
Farmers' Short Course.....	53	...	53
Boys' and Girls' Week.....	15	17	32
Teachers' Training School.....	8	139	147
Mothers' Week .....	...	36	36
Total for Short Courses.....	76	192	268
Total at Morris	164	241	405
Less duplicates .....	...	1	1
Net total	164	240	404
Total for Department of Agriculture.....	4,407	2,736	7,143
Less duplicates (including those not above)..	223	80	303
Net total	4,184	2,656	6,840

LAW SCHOOL

Regular Law

	Men	Women	Total
Third-Year Class	40	...	40
Second-Year Class	51	1	52
First-Year Class	68	...	68
Unclassed	3	...	3

Special Law

Third-Year Class	7	...	7
Second-Year Class	8	...	8
First-Year Class	44	...	44
	221	1	222

MEDICAL SCHOOL

Sixth-Year Class	Men 43	Women 2	Total 45
Fifth-Year Class	65	2	67
Fourth-Year Class	78	1	79
*Third-Year Class	67	7	74
Special Students	14	1	15
	267	13	280
The School for Nurses:	Men	Women	Total
Third-Year Class .....	...	20	20
Second-Year Class .....	...	17	17
Preliminary .....	...	29	29
Accredited .....	...	2	2
	...	68	68
Short Course in Embalming.....	40	2	42

*Second- and First-Year students are listed in the College of Science, Literature, and the Arts.

SUMMARY OF ATTENDANCE

285

COLLEGE OF DENTISTRY

	Men	Women	Total
Senior Class	94	5	99
Junior Class	84	...	84
Sophomore Class	89	...	89
Freshman Class	97	1	98
Irregular Students	2	...	2
	<hr/>	<hr/>	<hr/>
	366	6	372

SCHOOL OF MINES

	Men	Women	Total
Senior Class	15	...	15
Junior Class	21	...	21
Sophomore Class	20	...	20
Freshman Class	21	...	21
First-Year Class	3	...	3
	<hr/>	<hr/>	<hr/>
	80	...	80

COLLEGE OF PHARMACY

	Men	Women	Total
Post-Graduates	2	...	2
Senior Class	34	3	37
Junior Class	13	4	17
Sophomore Class	5	...	5
Freshman Class	38	5	43
Special Students	3	...	3
	<hr/>	<hr/>	<hr/>
	95	12	107

SCHOOL OF ANALYTICAL AND APPLIED CHEMISTRY

	Men	Women	Total
Post-Senior Class	1	...	1
Senior Class	18	1	19
Junior Class	14	...	14
Sophomore Class	22	...	22
Freshman Class	42	1	43
Irregular Students	4	...	4
	<hr/>	<hr/>	<hr/>
	101	2	103

COLLEGE OF EDUCATION

	Men	Women	Total
Senior Class	17	24	41
Junior Class	8	32	40
Unclassed Students	14	109	123
	<hr/>	<hr/>	<hr/>
	39	165	204

	Men	Women	Total
University High School:			
Post-Graduates	1	...	1
Senior Class	15	11	26
Junior Class	19	10	29
Sophomore Class	15	9	24
Freshman Class	32	26	58
	<hr/>	<hr/>	<hr/>
	82	56	138

GRADUATE SCHOOL

	Men	Women	Total
Registration	285	98	383

UNIVERSITY SUMMER SESSION

	Men	Women	Total
Registration	418	650	1,068
Duplicates registered 1916-17.....	192	189	381
	<hr/>	<hr/>	<hr/>
Net registration.....	226	461	687

COLLEGE OF DENTISTRY SUMMER SESSION

	Men	Women	Total
Registration	85	1	86
Duplicates registered 1916-17.....	67	1	68
	<hr/>	<hr/>	<hr/>
Net registration	18	...	18

MEDICAL SCHOOL SUMMER SESSION

	Men	Women	Total
Registration	89	3	92
Duplicates registered 1916-17.....	69	3	72
	<hr/>	<hr/>	<hr/>
Net registration	20	...	20
Total for Summer Sessions.....	264	461	725
Less duplicates	8	...	8
	<hr/>	<hr/>	<hr/>
Net total	256	461	717

SUMMARY OF TOTALS

	Men	Women	Total
College of Science, Literature, and the Arts.....	1,192	1,289	2,481
College of Engineering and Architecture.....	523	7	530
Department of Agriculture.....	4,184	2,656	6,840
Law School.....	221	1	222
Medical School (including Short Course in Embal- ing and School for Nurses).....	307	83	390
College of Dentistry.....	366	6	372
School of Mines.....	80	...	80
College of Pharmacy.....	95	12	107
School of Analytical and Applied Chemistry.....	101	2	103

SUMMARY OF ATTENDANCE

287

	Men	Women	Total
College of Education (including University High School)	121	221	342
Graduate School	285	98	383
Summer Sessions 1916 (net).....	256	461	717
	<hr/>	<hr/>	<hr/>
	7,731	4,836	12,567
Less duplicates	-81	-28	-109
	<hr/>	<hr/>	<hr/>
	7,650	4,808	12,458
Students of collegiate grade (net).....	3,859	2,452	6,311
Students of sub-collegiate grade (net) (including Agricultural Schools, University High School, Short Courses in Agriculture and Short Course in Embalming)	3,791	2,356	6,147

GENERAL EXTENSION DIVISION

	Men	Women	Total
Minneapolis Business Courses.....	514	50	564
Minneapolis Collegiate Courses.....	239	817	1,056
Minneapolis Engineering Courses.....	166	2	168
Minneapolis Law Courses.....	27	1	28
	<hr/>	<hr/>	<hr/>
	946	870	1,816
St. Paul Business Courses.....	98	6	104
St. Paul Collegiate Courses.....	30	90	120
St. Paul Engineering Courses.....	26	...	26
	<hr/>	<hr/>	<hr/>
	154	96	250
Duluth Business Courses.....	58	1	59
Duluth Engineering Courses.....	10	...	10
	<hr/>	<hr/>	<hr/>
	68	1	69
Stillwater Collegiate Courses.....	1	30	31
Merchants' Short Course.....	88	3	91
Short Course in Red Cross Work.....	...	25	25
Correspondence Courses	113	120	233
	<hr/>	<hr/>	<hr/>
	1,370	1,145	2,515
Total for Colleges and Schools (net).....	7,650	4,808	12,458
Total for Extension Division.....	1,370	1,145	2,515
	<hr/>	<hr/>	<hr/>
Total registration for University.....	9,020	5,953	14,973

Bulletin of The University of Minnesota

GENERAL INFORMATION

1916-1917



VOL. XIX. NO. 3 APRIL 1916

Entered at the Post-Office
in Minneapolis as second-class matter
Minneapolis, Minn.

The Bulletin of the University of Minnesota is issued as often as twice a month during the University year.

The Bulletin comprises—

Original Series. Containing the reports of the President and of the Board of Regents, the Register, the Bulletin of General Information, the annual announcements of the individual colleges of the University, etc.

General Series. Containing announcements of departments of instruction, reports of University officers, etc.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should state specifically which bulletin or what information is desired. Address

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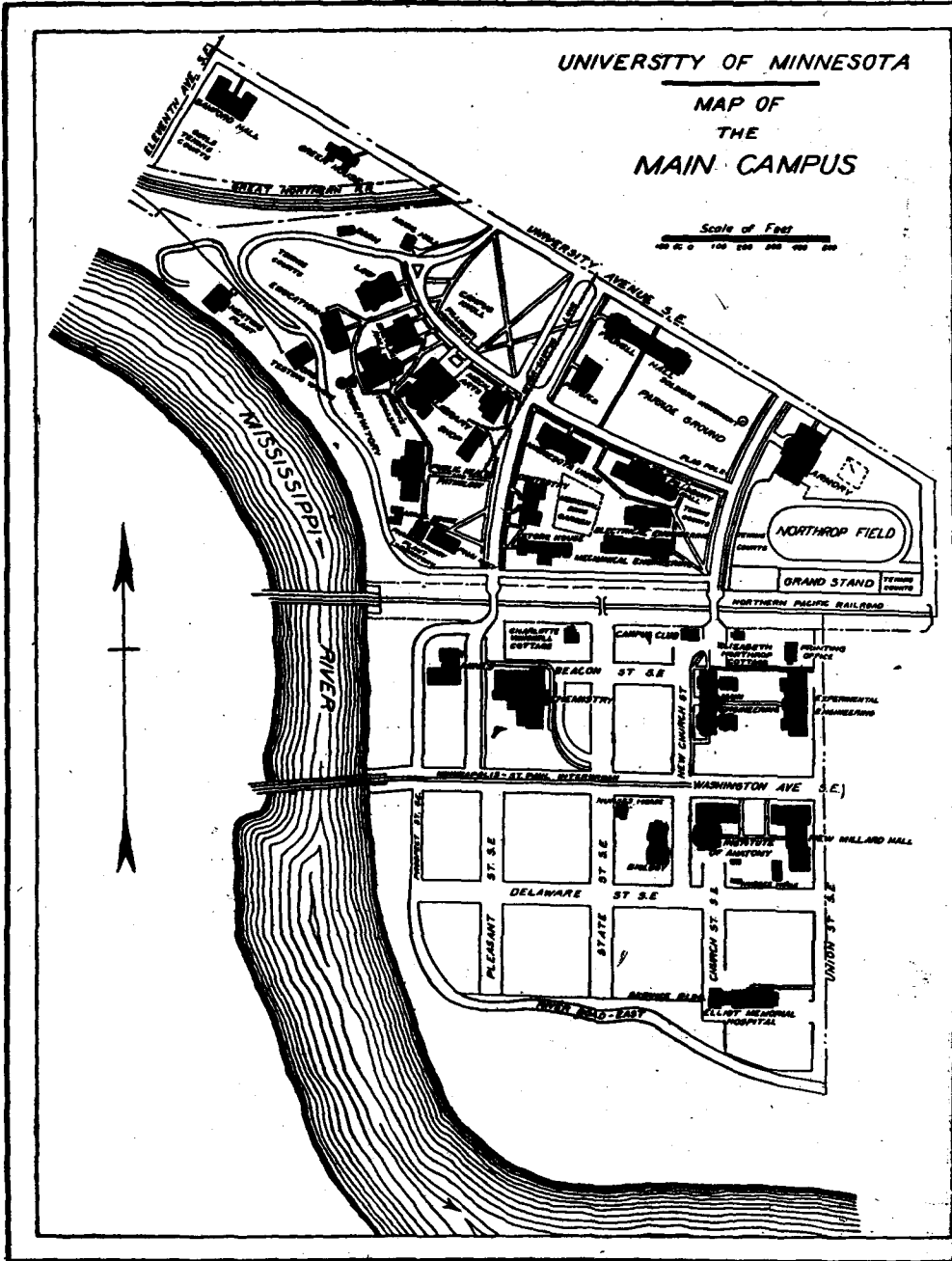
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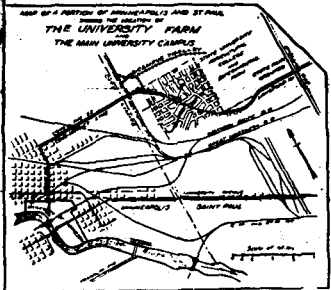
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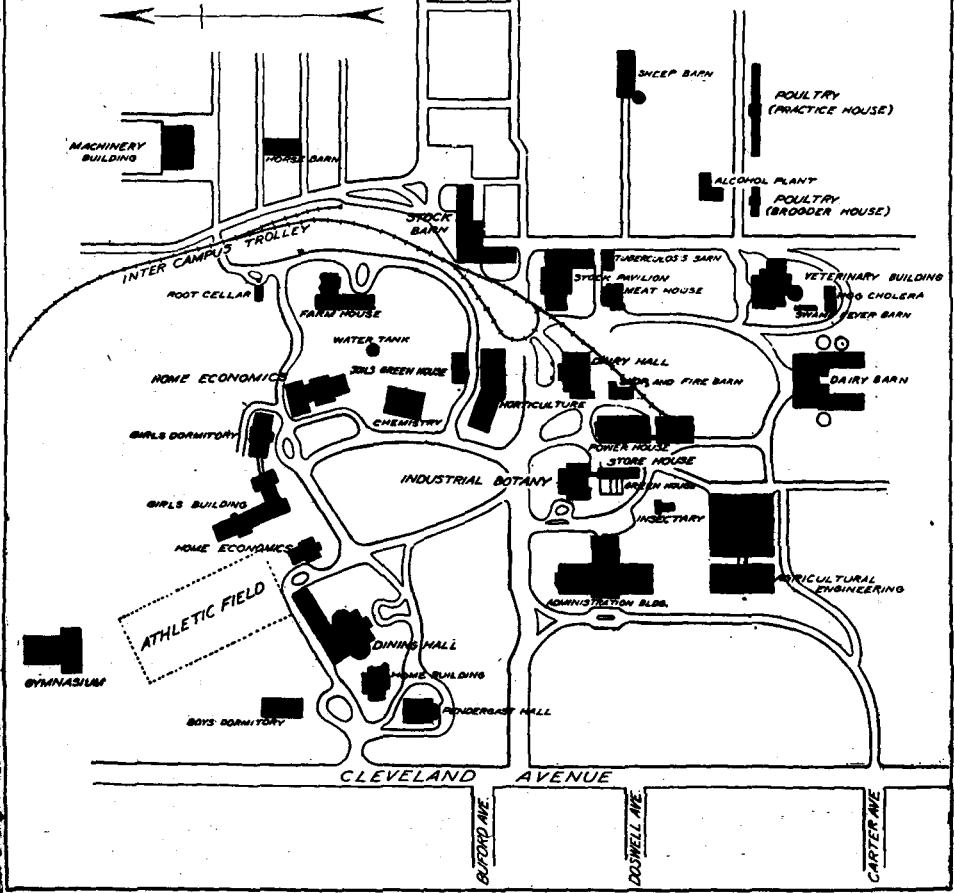
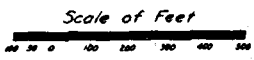
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Area of Main Campus, 108.5 acres



UNIVERSITY OF MINNESOTA
 MAP OF THE CAMPUS
 OF THE
 UNIVERSITY FARM



O. S. Zehner.

Area of University Farm, 422.56 acres

1916							1917													
JULY							JANUARY							JULY						
Su	Mo	Tu	W	Th	Fr	Sa	Su	Mo	Tu	W	Th	Fr	Sa	Su	Mo	Tu	W	Th	Fr	Sa
..	..	..	..	..	..	1	..	1	2	3	4	5	6	1	2	3	4	5	6	7
2	3	4	5	6	7	8	7	8	9	10	11	12	13	8	9	10	11	12	13	14
9	10	11	12	13	14	15	14	15	16	17	18	19	20	15	16	17	18	19	20	21
16	17	18	19	20	21	22	21	22	23	24	25	26	27	22	23	24	25	26	27	28
23	24	25	26	27	28	29	28	29	30	31	..	..	..	29	30	31	..	..	..	..
30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
AUGUST							FEBRUARY							AUGUST						
..	..	1	2	3	4	5	..	..	..	..	1	2	3	..	..	1	2	3	4	
6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11
13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
27	28	29	30	31	..	..	25	26	27	28	..	..	..	26	27	28	29	30	31	..
..
SEPTEMBER							MARCH							SEPTEMBER						
..	..	..	..	..	1	2	..	..	..	..	1	2	3	..	..	..	..	..	1	2
3	4	5	6	7	8	9	4	5	6	7	8	9	10	2	3	4	5	6	7	8
10	11	12	13	14	15	16	11	12	13	14	15	16	17	9	10	11	12	13	14	15
17	18	19	20	21	22	23	18	19	20	21	22	23	24	16	17	18	19	20	21	22
24	25	26	27	28	29	30	25	26	27	28	29	30	31	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..
OCTOBER							APRIL							OCTOBER						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	..	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13
15	16	17	18	19	20	21	15	16	17	18	19	20	21	14	15	16	17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
29	30	31	..	..	..	..	29	30	..	..	..	..	..	28	29	30	31	..	..	..
..
NOVEMBER							MAY							NOVEMBER						
..	..	..	1	2	3	4	..	..	1	2	3	4	5	..	..	..	..	1	2	3
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24
26	27	28	29	30	..	..	27	28	29	30	31	..	..	25	26	27	28	29	30	..
..
DECEMBER							JUNE							DECEMBER						
..	..	..	..	..	1	2	..	..	..	..	1	2	..	..	..	..	..	..	1	
3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8
10	11	12	13	14	15	16	10	11	12	13	14	15	16	9	10	11	12	13	14	15
17	18	19	20	21	22	23	17	18	19	20	21	22	23	16	17	18	19	20	21	22
24	25	26	27	28	29	30	24	25	26	27	28	29	30	23	24	25	26	27	28	29
31	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..

UNIVERSITY CALENDAR

1916-1917

The University year covers a period of thirty-eight weeks. Commencement Day is always the second Thursday in June.

1916

September	13	Wednesday	Registration closes except for new students
September	13-20	Week	Fees payable except for new students
September	19-26	Week	Examinations for the removal of conditions (except Colleges of Agriculture and Forestry), entrance examinations, registration of new students, and payment of fees.
September	27	Wednesday	First semester begins
October	2	Monday	Agricultural College, farm experience examinations
October	2	Monday	School of Agriculture, first term begins
October	5	Thursday	Senate meeting, 4:00 p.m.
November	6	Monday	Dairy School opens
November	7	Tuesday	Election day; a holiday
November	22	Wednesday	Medical School second quarter begins
November	29	Wednesday	Thanksgiving recess begins 9:00 p.m.
December	2	Saturday	Dairy School closes
December	4	Monday	Thanksgiving recess ends 8:00 a.m.
December	4-9	Week	Second semester condition examinations, Colleges of Agriculture and Forestry
December	4-9	Week	Short course for ice-cream makers
December	7	Thursday	Senate meeting, 4:00 p.m.
December	22	Friday	Christmas vacation begins 9:00 p.m.
December	22	Friday	School of Agriculture, first term closes
1917			
January	1-6	Week	Farmers' Short Course
January	3	Wednesday	Christmas vacation ends 8:00 a.m.
January	3	Wednesday	School of Embalming begins, eight weeks' session
January	9	Tuesday	School of Agriculture, second term begins
January	24	Wednesday	Second semester registration closes, except for new students
January	29	Monday	Final examinations begin
January	31	Wednesday	Payment of fees for second semester closes, except for new students
February	1	Thursday	Senate meeting, 4:00 p.m.
February	5-6	Monday-Tues.	Registration and payment of fees for new students

February	7	Wednesday	Second semester begins
February	12	Monday	Lincoln's Birthday; a holiday
February	22	Thursday	Washington's Birthday; a holiday
March	28	Wednesday	School of Agriculture closes
April	2-7	Week	Junior Short Course
April	5	Thursday	Easter recess begins 9:00 p.m.
April	11	Wednesday	Easter recess ends 8:00 a.m.
April	11	Wednesday	Medical School fourth quarter begins
April	16-21	Week	Condition examinations in certain colleges
May	1	Tuesday	Traction Engineering Course begins
May	3	Thursday	Senate meeting, 4:00 p.m.
May	30	Wednesday	Memorial Day; a holiday
June	1	Friday	Final examinations begin 2:00 p.m.
June	9	Saturday	Second semester closes
June	10	Sunday	Baccalaureate service
June	11	Monday	Senior Class Day exercises
June	11-18	Week	Military Encampment, Fort Snelling
June	13	Wednesday	Alumni Day
June	14	Thursday	Forty-fourth Annual Commencement
June	15	Friday	Summer vacation begins
June	18	Monday	Summer Session begins

The University year for 1917-1918 will begin Tuesday, September 18.

Program of Entrance Examinations 1916-1917

Entrance examinations for admission to the various colleges of the University will be conducted according to the following schedule, in Room 112, Library Building, unless otherwise specified.

Any student finding a conflict in his program should report to the Registrar for adjustment.

Tuesday,	Sept. 19	9 a.m.	Business Subjects, Elementary Algebra, Plane Geometry
		2 p.m.	Manual Subjects, Domestic Art and Science, Agriculture, Higher Algebra, Solid Geometry
Wednesday,	Sept. 20	9 a.m.	Astronomy, Botany, Geology, Chemistry, Physiography, Zoology, Physics, Physiology
		2 p.m.	American Government, History, Economics, Commercial Geography, History of Commerce, Economic History of England, Economic History of the United States
Thursday,	Sept. 21	9 a.m.	English
		2 p.m.	German, Greek, French, Latin, Scandinavian, Spanish

A representative of each department will be at the office of the head of the department each forenoon of entrance examination week from 9 to 12 to give information and advice.

Condition Examinations

Regular examinations for the removal of conditions are given at no other times than (1) the week following the Easter recess, (2) the registration week in September, and (3) the week following the Thanksgiving recess, for students in the Colleges of Agriculture and Forestry.

The examinations in second-semester courses are given in the September period and those in first-semester courses are given after the Easter recess or in September, or at both times, as each school or college may determine. No student may take more than one examination to remove a condition.

Examination schedules for the respective schools and colleges may be secured at the Registrar's office.

ORGANIZATION OF THE UNIVERSITY

The University is organized in Schools, Colleges, and Divisions as follows:

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

THE COLLEGE OF ENGINEERING AND ARCHITECTURE

THE DEPARTMENT OF AGRICULTURE, including—

THE COLLEGE OF AGRICULTURE

THE COLLEGE OF FORESTRY, including—

FOREST EXPERIMENT STATIONS AT ITASCA AND CLOQUET

THE CENTRAL SCHOOL OF AGRICULTURE, UNIVERSITY FARM

THE NORTHWEST SCHOOL OF AGRICULTURE, CROOKSTON

THE WEST CENTRAL SCHOOL OF AGRICULTURE, MORRIS

THE EXPERIMENT STATIONS, including—

THE MAIN STATION, ST. ANTHONY PARK

THE NORTHWEST EXPERIMENT STATION, CROOKSTON

THE NORTH CENTRAL EXPERIMENT STATION, GRAND RAPIDS

THE WEST CENTRAL EXPERIMENT STATION, MORRIS

THE NORTHEAST DEMONSTRATION FARM AND EXPERIMENT
STATION, DULUTH

THE SOUTHEAST DEMONSTRATION FARM AND EXPERIMENT
STATION, WASECA

THE FRUIT-BREEDING FARM, ZUMBRA HEIGHTS

THE LAW SCHOOL

THE MEDICAL SCHOOL, including—

THE SCHOOL FOR NURSES

THE SCHOOL OF EMBALMING

THE COLLEGE OF DENTISTRY

THE SCHOOL OF MINES, including—

MINNESOTA SCHOOL OF MINES EXPERIMENT STATION

THE COLLEGE OF PHARMACY

THE SCHOOL OF ANALYTICAL AND APPLIED CHEMISTRY

THE COLLEGE OF EDUCATION

THE GRADUATE SCHOOL

THE UNIVERSITY EXTENSION SERVICE, including—

GENERAL EXTENSION DIVISION

AGRICULTURAL EXTENSION DIVISION

THE BOARD OF REGENTS

The Hon. FRED B. SNYDER, Minneapolis, President of the Board	- - 1922
GEORGE EDGAR VINCENT, Minneapolis	- - - - - <i>Ex officio</i>
The President of the University	
The Hon. J. A. A. BURNQUIST, St. Paul	- - - - - <i>Ex officio</i>
The Governor of the State	
The Hon. C. G. SCHULZ, St. Paul	- - - - - <i>Ex officio</i>
The Superintendent of Education	
The Hon. W. J. MAYO, Rochester	- - - - - 1919
The Hon. MILTON M. WILLIAMS, Little Falls	- - - - - 1919
The Hon. JOHN G. WILLIAMS, Duluth	- - - - - 1920
The Hon. GEORGE H. PARTRIDGE, Minneapolis	- - - - - 1920
The Hon. A. E. RICE, Willmar	- - - - - 1921
The Hon. CHARLES L. SOMMERS, St. Paul	- - - - - 1921
The Hon. PIERCE BUTLER, St. Paul	- - - - - 1922
The Hon. C. W. GLOTFELTER, Waterville	- - - - - 1922

EXECUTIVE OFFICERS

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 GEORGE H. HAYES, University Comptroller and Secretary of the Board of Regents
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 EDWARD E. NICHOLSON, M.A., Assistant Dean of the College of Science, Literature, and the Arts
 FRANCIS C. SHENEHON, C.E., Dean of the College of Engineering and Architecture
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 FREDERICK J. WULLING, Ph.D., LL.M., Dean of the College of Pharmacy
 GEORGE B. FRANKFORTER, Ph.D., Dean of the School of Chemistry
 LOTUS D. COFFMAN, Ph.D., Dean of the College of Education
 GUY STANTON FORD, Ph.D., Dean of the Graduate School
 RICHARD R. PRICE, M.A., Director of University Extension
 MARGARET SWEENEY, Ph.D., Dean of Women

THE UNIVERSITY OF MINNESOTA

DESCRIPTION OF DEPARTMENTS

The College of Science, Literature, and the Arts offers a four-year course of study leading to the degree of Bachelor of Arts. The work is elective within certain limitations intended to secure a proper balance between breadth of foundation and liberal culture on the one hand and specialized training on the other. A four-year course in Business Education was introduced in 1915-1916.

In this college are given also the first two or three years of the combined courses leading to the degrees of Bachelor of Science or Bachelor of Arts and Doctor of Medicine; the two years of college work required for entrance to the Law School; and various non-professional subjects required in other schools and colleges of the University.

The College of Engineering and Architecture offers courses of study of five years each, in Civil, Mechanical, and Electrical Engineering, and Architecture, leading to the degrees of Civil, Mechanical, and Electrical Engineer, and Architect. The degrees of Bachelor of Science in Engineering and Bachelor of Science in Architecture are conferred at the end of the fourth year. This college also offers work in the Graduate School leading to the degree of Master of Science.

Engineering for Manufacturers, Contractors, and Administrators.—The four-year course in General Engineering, leading to the degree of Bachelor of Science in Engineering, is excellent preparation for careers in certain business fields akin to engineering. These semi-engineering activities in part are: the operation of such public utilities as light and power plants, traction companies, railway and irrigation systems; the management of manufacturing establishments, such as automobile factories, locomotive works, flour and saw mills; the direction of construction in contracting work; salesmanship in the materials of construction including water wheels, electrical and other machinery. The course includes the mathematics, shop work, physics, mechanics, and chemistry of the standard Engineering Course. It includes liberal electives for such specialized work as will serve to fit men for the particular fields anticipated. Such subjects as Economics, Sociology, Psychology, Business Management, Accounting Principles, Banking, Public Utilities, and Business Law may be taken as supplementary to the technical subjects.

In the course in Civil Engineering, a period of five weeks is spent in camp. This summer survey work is required of all students in this course in the vacation following the junior year.

Excellent facilities exist in the college for practicing engineers to carry on graduate work in engineering and architecture.

The College of Agriculture offers four-year courses in Agriculture and Home Economics leading to the degree of Bachelor of Science. The

work in Agriculture includes general courses in Agricultural Education, Manual Training, Agronomy and Farm Management, Dairy and Animal Husbandry, and Horticulture. Special Agricultural Science Courses are also offered in Agricultural Chemistry, Agricultural Economics, Entomology, Plant Pathology, and Soils. The courses in Home Economics include a general course, a teachers' course in the general field of Home Economics, and a special teachers' course in Textiles and Clothing.

The College offers to all students in Agriculture and Home Economics the courses necessary for the University Teachers' Certificate in preparation for teaching in secondary schools.

Graduate work is offered in all special lines of Agriculture. The special problems are for the most part correlated with work in the Experiment Station.

The Summer Session of the College of Agriculture begins about the middle of June and continues for six weeks. Courses are offered in Agriculture and Home Economics adapted to the needs of teachers and others not in attendance during the regular college session and also to regular students. The State Teachers' Training School is held at the same time and place.

The College of Forestry offers a four-year course leading to the degree of Bachelor of Science. In addition to the work given at the University Farm, six months' work, two freshman and four junior, is given at Itasca State Park, where a well equipped demonstration forest is available as a laboratory. The college also controls a Forest Experiment Station at Cloquet, which offers a good field for graduate students and original research. Provision is made for graduate work in all the various lines of sylviculture and utilization.

The Schools of Agriculture offer three-year courses of study adapted especially to the needs and opportunities of farm boys and girls. They offer courses of special training for practical farm life and for practical home economics. The Central School is located at St. Anthony Park; the Northwest School, at Crookston; and the West Central School, at Morris.

The Dairy School offers a five-weeks' course of practical instruction in dairying, especially designed for those who are actually engaged in the manufacture of butter and cheese. (November and December.)

The Farmers' and Home-Makers' Week is held early in January. Instruction in Agriculture and Home Economics is offered in regular classes, important conferences are held and many agricultural organizations of the State hold their sessions at this time.

A Short Course for Veterinarians, one week in length, is held in February. Lectures are given by members of the State Live Stock Sanitary Board and by members of the staffs of the Division of Veterinary Medicine and other divisions of the College and clinical work is conducted by veterinarians of national reputation.

The School of Traction Engineering is a five-weeks' course of practical instruction in the operation and handling of traction engines and other farm machinery. Engineers' licenses of different grades are given according to previous experience. (May.)

The Experiment Station conducts experiments along the various lines of agriculture which are of interest to farmers. It is closely correlated with the College of Agriculture. Its object is the solution of agricultural problems of importance in Minnesota. It offers secondarily educational and research advantages to undergraduate and graduate students of the College of Agriculture. The main station is located at St. Anthony Park; substations are located at Crookston, Grand Rapids, and Morris. Demonstration experimental farms are also located at Waseca and Duluth.

The Extension Work of the Department of Agriculture is correlated with the Farmers' Institute work and aims to bring to the farmers of the State information leading to the improvement of the farm and home. It reaches farmers by institutes, lectures, demonstrations, and demonstration farms, industrial and agricultural contests, a press bureau, and by correspondence and personal visits.

The Law School offers a course covering a period of three academic years, leading to the degree of Bachelor of Laws. Candidates for admission to the Law School must have completed at least two years of work in the College of Science, Literature, and the Arts of the University of Minnesota, or some other college or university of equal grade. A special pre-legal course of two years, covering those subjects which are particularly desirable as preliminary to the study of law, is offered by the College of Science, Literature, and the Arts. Seniors in that college are permitted to take the work of the first-year class in law and count the same as the equivalent of one year's work towards their Academic degree. This provision enables students to obtain the degrees of Bachelor of Arts and Bachelor of Laws in six years. The so-called "case system" method of teaching law, approved by the leading law schools of the country, is employed.

The Medical School is the only institution giving medical instruction in the State of Minnesota.

Admission to the Medical School is had through the College of Science, Literature, and the Arts of this or other recognized University.

All students are required to secure the B.S. or B.A. degree before receiving the degree of Doctor of Medicine. The College of Science, Literature, and the Arts and the Medical School unite in offering the following courses of study:

1. A combined course leading to the degrees of Bachelor of Science and Doctor of Medicine and consisting of: (a) two years of work in the College of Science, Literature, and the Arts, including certain required subjects (see page 24); (b) five years in the Medical School, covering four years of graded study and one year in a hospital internship or an advanced laboratory study or research.

2. A combined course leading to the degrees of Bachelor of Arts and Doctor of Medicine. Students who present three years of properly selected work in the College of Science, Literature, and the Arts, including the required subjects noted, may elect the first year in medicine in their senior academic year, receiving the B.A. degree at its close and the M.D. degree upon the successful completion of the remaining four years in medicine.

3. The School for Nurses, organized in connection with the University Hospital service, is under the control of the Faculty of the Medical School.

It offers a three-year course, the first six months occupied in preliminary study in the Medical School, in the School of Chemistry and in the hospital service; the remaining two and one-half years in residence and in hospital and out-patient training.

4. The School of Embalming offers an annual course of eight weeks. A certificate covering the successful completion of the work is granted, which is accepted by the State Board of Health, in lieu of examination for an embalmer's license.

5. Graduate and research work is offered to qualified students. (See page 16).

The College of Dentistry offers a four-year course of study, of nine months each, leading to the degree of Doctor of Dental Surgery.

The University offers an optional six-year course of study leading to the degrees of Bachelor of Arts and Doctor of Dental Surgery at the end of the six-year course.

The College of Pharmacy has discontinued its two-year course. Its regular and shortest course now extends over three years and leads to the degree Pharmaceutical Chemist (Phm.C.). A four-year course leading to the degree Bachelor of Science in Pharmacy (B.S. in Phm.) is also offered. This course includes all of the Pharmaceutical Chemist course and the equivalent of one year in the College of Science, Literature, and the Arts. Two graduate courses, leading to the degrees respectively of Master of Science in Pharmacy and Doctor of Science in Pharmacy, are open to those who have the Bachelor's degree in Pharmacy and who have shown exceptional scholarship and ability.

The School of Mines offers three regular courses, namely, Mining Engineering, Mining Engineering (specializing in Geology), and Metallurgy, leading to the degrees of Engineer of Mines (E.M.), Engineer of Mines (in Geology) [E.M. (Geology)], and Metallurgical Engineer (Met.E.), respectively.

Students with satisfactory preparation in Elementary and Higher Algebra and Plane and Solid Geometry may graduate in four years. Students presenting high-school credentials to the extent indicated on page 25, may graduate in five years.

Courses in the school are designed for the purpose of preparing men to enter their profession with a thoro grounding in mathematics, in the sciences, and in the fundamental principles of mining engineering and

metallurgy. A system of apprenticeship during summer vacations has been inaugurated. This work has become part of the curriculum and is required of all students who are candidates for degrees.

The School of Analytical and Applied Chemistry offers three courses. Two of these, the Analytical and the five-year course in Arts and Chemistry, are designed for those who wish to become teachers of chemistry, analysts, and investigators. The four-year Analytical Course leads to the degree of Bachelor of Science in Chemistry, while the Arts and Chemistry Course leads to the degree of Bachelor of Arts after four years and Bachelor of Science in Chemistry at the end of the fifth.

The third or Applied Course extends over five years, leading to the degree of Bachelor of Science at the end of four years and Chemical Engineer at the end of the fifth. These courses aim to give the student a broad foundation in chemistry and some of the allied sciences.

The College of Education offers a practical and a theoretical training for prospective high-school teachers and principals, for principals of elementary schools, for supervisors of special studies, and for superintendents of school systems.

Students are admitted to the college only after the completion of at least two full years of college work, during which time they should have pursued at least one course in general psychology, and prospective high-school teachers should have given especial attention to one or more of the subjects which they expect to teach. The two-years' course of study, beginning with the junior year, leads to the degree of Bachelor of Arts in Education. A third year leads to the degree of Master of Arts, including advanced studies in education and philosophy, and in one or more of the subjects of the secondary curriculum, at the option of the candidate.

The Graduate School gathers into a single organization and unites for the purpose of administration all the activities of the University in all its schools and colleges in so far as they relate to advanced instruction offered for the second or higher degrees, viz., Master of Arts and Doctor of Philosophy, Master of Science, and Doctor of Science. The privileges of this school are in general open to all who have received Bachelors' degrees from reputable colleges and universities, based on courses substantially equivalent to those at this University.

Graduate work in medicine is maintained by the Medical School and the Mayo Foundation for medical education and research, jointly. The degrees of B.S. and M.D. and one year of intern service in an acceptable hospital are prerequisites of registration. A number of fellowships and scholarships are provided for selected students undertaking graduate courses in chosen specialties in medicine. These courses cover a period of three years and lead to the degree of D.Sc.

The University Summer Session is organized for six weeks in June and July under the authority of the Board of Regents as a regular part of the University. Courses carrying university credit, including all the subjects of the state professional certificate, are offered for college stu-

dents, experienced teachers, and others who desire the opportunity for advanced study. Students may secure not more than six credits at one session.

Courses in Agriculture and Home Economics, for which university credit is given, are offered by the College of Agriculture.

Summer courses are offered also by the College of Engineering, the Medical School, and the College of Dentistry.

Special Courses.—In practically all of the colleges, students of mature age and adequate preparation are permitted to pursue, under the direction of the Faculty, one or two distinct lines of study.

University Extension.—All extension work of the University of Minnesota has been established as an organic unit of the University under the title of Extension Service. The Extension Service of the University functions in two main lines, the General Extension Division and the Agricultural Extension Division.

The work of the Agricultural Extension Division is indicated on page 14. The General Extension Division conducts evening classes and correspondence courses, provides for communities, faculty lecturers and lyceum courses of popular lectures and entertainments, maintains a municipal reference bureau and a lantern-slide loan system, fosters debating in the public schools, holds an annual short course in merchandising, offers guidance for the development of community centers, and manages an annual program of University Weeks in certain towns of the state.

Bulletins of evening classes, correspondence, and lecture courses may be had upon request.

ADMISSION

GENERAL REQUIREMENTS

Admission to the colleges or schools of the University which accept students direct from the high school is either by certificate or examination, or both. The candidate must offer fifteen units of high-school work so chosen as to include those subjects required by the college or school which he desires to enter. No candidate will be admitted with less than fifteen units. The Registrar may, however, authorize substitutions in the list of required subjects to the extent of one unit in case the candidate did not have an opportunity to take all the required subjects, unless otherwise stated in the requirements of the individual college or school.

Freshman students will be admitted at the opening of the second semester in February in the Colleges of Science, Literature, and the Arts, Agriculture, and Forestry. All other students admitted at this time must present credentials of advanced standing from other colleges showing their qualification to continue the second semester's work.

Under List of Entrance Subjects is shown the minimum and maximum number of units of any one subject that will be accepted by any college of the University. For a statement of the specific units required in any subject or group, see Requirements of Individual Colleges, pages 21-26.

ADMISSION BY EXAMINATION

Entrance examinations are offered at the University during the opening week, September 19 to 26. Candidates entering by this method must pass examinations in fifteen units so chosen as to satisfy the specific requirements of the college to which entrance is desired. (See Requirements of Individual Colleges.) Certificates from the College Entrance Examination Board and from the High School Board are accepted in lieu of examinations in the subjects they represent. Those desiring to take examinations should notify the Registrar in writing not later than September 1. See schedule of examinations, page 8.

ADMISSION BY CERTIFICATE

Graduates of the following courses, provided their preparation satisfies the specific requirements of the college they desire to enter, may be admitted to the freshman class upon presentation of credentials in proper form. See Registration, page 19.

1. Any four-year course of a Minnesota state high school or other accredited school in the state.
2. A four-year course of schools in any other state accredited to the state university of that state.
3. The Advanced Latin and Advanced English courses of the Minnesota state normal schools.

The student who does not hold a diploma from an approved school may gain admission by examination as indicated above.

REGISTRATION

The applicant for admission should request the principal or superintendent to forward to the Registrar of the University a complete transcript of his high-school or preparatory-school record showing the number of weeks and hours per week spent upon each study, with the grades entered as *passed*, *passed with credit*, or *passed with honor*. Credential blanks prepared by the University must be used. These blanks may be secured upon application at the Registrar's office. Upon receipt of the credentials at the University the Registrar will notify the applicant with regard to his admission, and will send directions for registration.

Students who were in attendance the preceding year are required to have their registration completed two weeks before classes begin, and fees paid one week before such time. Blanks for the purpose are mailed from the Registrar's office in ample time. Those not receiving the material by September 1 should notify the Registrar at once. See calendar, page 7, and penalty fees, page 39.

Students entering the University for the first time must complete registration and pay fees not later than the day preceding the opening of classes. See calendar, page 7, and penalty fees, page 39.

LIST OF ENTRANCE SUBJECTS

The term *unit* means not less than five recitations of forty minutes each per week for a school year of at least thirty-six weeks. In manual subjects and kindred courses, it means the equivalent of ten recitation periods per week for thirty-six weeks.

GROUP A: ENGLISH

English, four units.*

- (a) Principles of rhetoric
- (b) Practice in written expression in each of the years of the course, on an average of not less than one hour a week.
- (c) Classics

GROUP B: LANGUAGES

Latin—

Grammar, one unit
Caesar, four books, one unit
Cicero, six orations, one unit
Virgil, six books, one unit

German—

Grammar, one unit
Literature, one, two, or three units

French—

Greek—

Grammar, one unit
Anabasis, four books, one unit

Grammar, one unit

Literature, one, two, or three units

* Three units will satisfy the English requirement in the Colleges of Engineering and Dentistry and the Schools of Mines and Chemistry, and, when the applicant presents four units in one foreign language or two units in each of two foreign languages, will suffice for the other colleges.

Spanish—

Grammar, one unit
Literature, one, two, or three units

Scandinavian Languages—

Grammar, one unit
Literature, one, two, or three units

GROUP C: HISTORY AND SOCIAL SCIENCES

History—

Ancient, to Charlemagne, one unit
Modern, from Charlemagne, one unit
English, one-half or one unit
Senior American, one-half unit

Social Sciences—

American Government, one-half or one unit

Elementary Economics, one-half unit

Commercial Geography, one-half or one unit

History of Commerce, one-half or one unit

Economic History of England, one-half unit

Economic History of the United States, one-half unit

GROUP D: MATHEMATICS

Elementary Algebra, one unit
Plane Geometry, one unit
Higher Algebra, one-half unit

Solid Geometry, one-half unit

Trigonometry, one-half unit

GROUP E: NATURAL SCIENCES

Physics, one unit
Chemistry, one unit
Botany, one-half or one unit
Zoology, one-half or one unit

Physiology, one-half unit

Astronomy, one-half unit

Geology, one-half unit

Physiography, one-half unit

GROUP F: VOCATIONAL AND MISCELLANEOUS SUBJECTS

Not to exceed four units may be offered from the following list:

Art, one unit

Public Speaking and Debate, one unit

Business Subjects—

Business Law, one-half unit
Business Arithmetic, one-half unit
Elementary Bookkeeping, one unit

Advanced Bookkeeping, one unit
Stenography and Typewriting, two units

Manual Subjects—

Freehand Drawing, two units
Mechanical Drawing, two units
Domestic Art and Sciences, four units

Shop Work, two units

Modeling and Wood Carving, one unit

Normal Training Subjects—

One to three units from schools giving normal courses approved by the State High School Board, provided the applicant has had one year of subsequent teaching experience.

Agriculture—

One to four units from schools receiving special state aid for Agriculture and also from other schools in which such course in Agriculture is approved by the State High School Board, as fast as the said schools are prepared to offer work in Agriculture.

REQUIREMENTS OF THE INDIVIDUAL COLLEGES

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

1. *Regular Bachelor of Arts Course*

(1) English, four units; or three units of English accompanied by four units of one foreign language, or two units in each of two foreign languages.

(2) Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.

(3) Enough additional work to make in all fifteen units of which not more than four may be in Group F.

2. *Academic-Medical Course*

Same as 1 above, except that two units of Latin are required.

3. *Academic-Law Course*

Same as 1 above.

4. *Arts and Music Course*

Same as 1 above, also certificate from the Department of Music showing that the applicant is qualified to pursue the courses offered.

5. *Arts and Chemistry Course, five years*

Same as 1 above.

6. *Graduates of Minnesota State Normal Schools*

Graduates of the Advanced Graduate course of a Minnesota state normal school are admitted with advanced standing equivalent to one year's credit, and receive the degree of Bachelor of Arts upon completing in this college ninety credits provided they comply with the usual requirements for graduation. Such students will not be permitted to elect the following courses for credit: Education 1, 2, 3, or 105, Rhetoric 1-2, or Psychology 1-2 or 5.

Individual graduates of the Advanced Latin course (five years) or of the Advanced English course (five years) of a Minnesota state normal school, who, on the basis of maturity and ability, present from the president of the normal school certificates of special fitness, will be admitted with advanced standing under the same regulations and proviso.

This does not include those students of any of the above classes who substitute for the more advanced work of certain courses specialized work in preparation for elementary teaching.

7. *Unclassed Students*

Unclassed students are: (1) persons of mature years engaged in teaching or other occupation, but registered in this college without hav-

ing satisfied the entrance requirements in full; (2) all others who have been permitted to register for less than eleven hours of work. Only by permission of the Administrative Board and upon the presentation of satisfactory reasons for not taking the regular course will an applicant be admitted as an unclassified student. Unless he takes the same examinations or presents the same credentials as are required of those who enter the freshman class he can be admitted only upon vote of the Faculty. A new application must be made each semester.

8. *Special Music Students*

Same as 4 above.

COLLEGE OF ENGINEERING AND ARCHITECTURE

Including Courses in Civil, Electrical, and Mechanical Engineering, and Architecture

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit; Higher Algebra, one-half unit, and Solid Geometry, one-half unit.
3. Chemistry, one unit.
4. Enough additional work to make in all fifteen units of which not more than three may be in Group F.

One unit may be accepted in lieu of one unit from the above required subjects; but if this be offered as a substitute for Mathematics or Chemistry the resulting deficiency must be removed as hereinafter provided.

Should the deficiency occur in Solid Geometry this must be made up prior to the beginning of the second semester; otherwise deficiencies must be removed before entering upon any work of the sophomore year.

Students looking forward to the study of architecture will find it greatly to their advantage to take as much freehand drawing as possible in high school, to elect French as their language, and to cover the field of general history as far as possible.

COLLEGES OF AGRICULTURE AND FORESTRY

Including Courses in Agriculture, Home Economics, and Forestry

Students entering these colleges should submit their credentials to the enrollment committee, University Farm, St. Paul.

1. English, four units; or three units accompanied by four units of one foreign language, or two units in each of two foreign languages.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.
3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

Prospective students in Agriculture and Forestry are urged to present Higher Algebra, Chemistry, and Physics for entrance. This will permit the selection of vocational electives during the college course in place of Mathematics, Physics, and a portion of the Chemistry otherwise required.

Prospective students in Home Economics are urged to elect biology, Physiology, Chemistry, and Physics, as a part of their high-school course.

For students in Agriculture farm experience is required for admission under the following regulations:

A working knowledge of the fundamental operations of the farm, such as harnessing horses, milking cows by hand, plowing, planting, and harvesting the common crops, will be required of those entering the Agricultural courses.

It is provided, however, that students transferring from other colleges or universities to the junior year of any of the special science courses will be exempt from this requirement.

This is not to be understood as superseding the regulation which provides for at least six months' of approved farm experience before graduation.

Schools of Agriculture

These schools are not of collegiate grade. For further information, see special bulletins. Graduates of these schools may be admitted to the College of Agriculture on the certification of the completion of the following additional work in an accredited high school:

1. English, two units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.
3. Electives, four units, none of which may be from Group F.

LAW SCHOOL

Regular Students

Students desiring to enter the Law School must first complete two full years (not less than fifty-eight credits) of collegiate work in science, literature, and arts at this or some other university or college of equal rank. See admission to the College of Science, Literature, and the Arts, page 21. Such candidates may be admitted upon presenting their credentials to the Registrar.

A special pre-legal course is offered by the College of Science, Literature, and the Arts covering those subjects which are particularly desirable as preliminary to the study of law.

The Law Faculty recommends that prospective law students devote the major part of their time while in high school to the study of the following subjects: English, Latin, History, Mathematics, French or German, and Science.

Special Students

Applicants who are twenty-one years of age and have preliminary education sufficient at least to entitle them to admission to the College of Science, Literature, and the Arts, may, upon furnishing satisfactory evidence of their ability to pursue the law course with profit to themselves and without hindrance to the regular students, in the discretion of the

Faculty, be admitted to the Law School as special students. Such special students are not candidates for a degree.

Special students entering with fifty-two academic credits may become regular students by complying with the requirements for admission before the beginning of their second year in the Law School, *provided* they have passed all the subjects required of the first-year law class.

MEDICAL SCHOOL

Registration of students entering the Medical School is limited to eighty. Applicants will be selected by tests of preliminary training, general information, and personal fitness.

Prospective Medical students must complete two years (not less than sixty credits) of collegiate work in science, literature, and the arts at this or some other university or college of equal rank. The high-school preparation of such students must satisfy the requirements for admission to the College of Science, Literature, and the Arts and should include two units of Latin, two of German, and one of Chemistry. The sixty college credits required must include six credits each in Rhetoric, General Chemistry,* Qualitative Analysis,* Zoology, Social Science; eight credits in Physics, and enough German to enable the student to read scientific publications in that language with facility. This will usually require two years of collegiate work in addition to high-school credits in this language.

The degree of Doctor of Medicine is conferred only upon those who have received the Bachelor's degree in Arts or Science from this or some other recognized university or college. Combined courses are offered by the College of Science, Literature, and the Arts and by the Medical School, which lead to either of the Bachelor's degrees and, subsequently, to the degree in medicine.

Those who at the time of entrance have a Bachelor's degree from an approved institution other than the University of Minnesota may be allowed reasonable deviation from the exact credits mentioned above. But thoro college courses in Physics, Chemistry, and Biology and a reading knowledge of modern languages (particularly German) are indispensable as preparation for medical study.

Special Students

Physicians and others who would profit by the work may be admitted as special students. Such students are not candidates for the degree.

School for Nurses

Graduation from an approved high school or other preparatory school on the accredited list is a prerequisite for admission. Preference, how-

* Those who have had good training in preparatory Chemistry will take a combined course of six credits in General Chemistry and Qualitative Analysis, and six credits of Organic Chemistry. In 1918 and thereafter Organic Chemistry will be a premedical requirement.

ever, will be given to women of superior preliminary training. Applicants must not be less than twenty, nor more than thirty-five, years of age. They must submit to the committee satisfactory evidence of physical and mental fitness and of good character and will undergo a general physical examination by the school physician.

Upon receipt of credentials at the Registrar's office, applicants will be notified with regard to the details of registration.

All applicants matriculated will be required to take the preliminary course of instruction covering a period of six months, and must pass the examinations at its close. This period will be one, not only of preliminary training, but of probation. The Faculty reserves the right to pass upon the general fitness of the student to enter the hospital service at the close of that time.

School of Embalming

One year of high-school work or its equivalent in other satisfactory preparatory schools is a prerequisite for admission. Applicants must submit credentials covering this work and satisfactory evidence of good character. The course begins January 3. Examination is held at the close of the course and, successfully passed, entitles the student to a certificate.

COLLEGE OF DENTISTRY

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.
3. Enough additional work to make in all fifteen units of which not more than four may be in Group F.

Preparation of at least one year in Chemistry, and two or more years in Manual Training is recommended.

On account of the limited capacity of the College of Dentistry not more than ninety freshmen can be admitted. Applications for admission should be in the Registrar's office not later than July 25.

Candidates will be selected according to quantity and quality of preparation, and when necessary their fitness shall be determined by competitive examination and conference with the Student Work Committee.

All other qualifications being equal, residents of Minnesota will be given prior consideration for vacancies existing at the date of their application.

SCHOOL OF MINES

It is recommended that students who come poorly prepared in mathematics enter the five-year courses.

Five-Year Courses

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; and Plane Geometry, one unit.
3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

Four-Year Courses

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit; Higher Algebra, one-half unit; Solid Geometry, one-half unit.
3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

No substitution for the mathematics requirement can be made in this course.

It is recommended that students who enter the four-year courses review their mathematics, especially Higher Algebra and Solid Geometry. Those who are unable to carry satisfactorily freshman mathematics will be compelled to drop back into the five-year course.

COLLEGE OF PHARMACY

Graduation from a four-year high-school course or equivalent training is required for admission to the regular courses in pharmacy. Applicants are advised to secure preparation in two units of Latin and one unit each of Physics, Chemistry, Botany, and Physiology.

SCHOOL OF ANALYTICAL AND APPLIED CHEMISTRY

Arts and Chemistry Course (five years)

1. English, three units.
2. Mathematics: Elementary Algebra, one unit; Plane Geometry, one unit.
3. Enough additional work to make in all fifteen units, of which not more than four may be in Group F.

Analytical Course (four years) and Applied Course (five years)

The requirements are the same as in Arts and Chemistry above, except that in addition to the mathematics indicated one-half unit of Higher Algebra must be presented.

COLLEGE OF EDUCATION

Applicants for admission to this college must present credentials showing:

1. The completion of a regular four-year high-school course.
2. The completion of two full years of collegiate work (not less than sixty credits) in science, literature, and arts at this or some other college or university of equal rank.

Graduation from Advanced Graduate normal courses (two years beyond the high school) is considered equivalent to (1) and (2) above.

Graduates of a five-year normal course, if individually recommended by the normal school president, are allowed forty-two credits and are admitted to the College as unclassified students pending the completion of eighteen additional credits.

ADMISSION AS UNCLASSED STUDENTS

Only by permission of the proper officers and upon the presentation of satisfactory reasons for not taking the regular course will an applicant be admitted as an unclassified student. He must take the same examinations or present the same credentials as are required of those who enter as regular students. Exceptions can be made only upon vote of the appropriate faculty. A new application must be made each semester to the committee in charge. No unclassified student shall be admitted to the School of Mines.

ADMISSION TO ADVANCED STANDING

1. *From Other Colleges*

This University accepts credits from all reputable colleges and universities toward advanced standing. Such credits are accepted as far as they represent courses equivalent to the work done in this institution. In bringing or sending records from other institutions, the certificate must be upon the official blank of the institution granting the certificate and should show:

- (a) The subject studied; catalog course number and descriptive title.
- (b) The number of weeks and hours a week spent upon each subject.
- (c) The value of the course expressed in semester credits.
- (d) The result. The exact grades should be stated, accompanied by an explanation of the marking system employed.

Upon receipt of the student's credentials the Registrar will notify the applicant concerning his classification and will send directions for registration.

All statements concerning advanced standing and classification are provisional, subject to the applicants' completing one year of work satisfactorily at the University.

Candidates wishing to gain advanced standing by examination are allowed examinations without charge, provided such be taken within six weeks after matriculation.

2. *From Minnesota Normal Schools*

Graduates of the Advanced Graduate course of a Minnesota State Normal School are admitted to the College of Science, Literature, and the Arts with one year (30 credits) of advanced standing. Graduates of such advanced courses are admitted to the College of Education with an allowance of sixty credits toward graduation.

Individual graduates of the Advanced Latin course (five-year) or of the Advanced English course (five-year) of a Minnesota State Normal School who, on the basis of maturity and ability, present certificates of special fitness from the President of the Normal School, will be admitted with thirty credits of advanced standing. Graduates of such courses are admitted to the College of Education with an allowance of forty-two credits toward graduation.

3. *Miscellaneous*

Credit in Shop Work and Drawing will be given in the College of Engineering for work in manual training, or for practical experience, provided the applicant gives evidence of proficiency in such work, and is qualified to pursue advanced work. The student must register for the regular work and at the same time make application to the department concerned for advanced credit.

LIST OF ACCREDITED SCHOOLS

Graduates of the following Minnesota state high schools will be admitted to the University of Minnesota without conditions, provided their credentials satisfy the specific requirements of the college to which entrance is desired.

Ada	Canby	Faribault
Adrian	Cannon Falls	Farmington
Aitkin	Cass Lake	Fergus Falls
Akeley	Chaska	Fertile
Albert Lea	Chatfield	Fosston
Alden	Chisholm	Frazee
Alexandria	Clarkfield	Fulda
Amboy	Cloquet	Gaylord
Annandale	Cokato	Gilbert
Anoka	Coleraine	Glencoe
Appleton	Greenway	Glenwood
Argyle	Olcott	Graceville
Arlington	Cottonwood	Grand Meadow
Atwater	Crookston	Grand Rapids
Aurora	Dassel	Granite Falls
Austin	Dawson	Hallock
Bagley	Deer River	Halstad
Barnesville	Delano	Harmony
Belle Plaine	Detroit	Hastings
Bemidji	Dodge Center	Hawley
Benson	Duluth	Hector
Bird Island	Central	Henderson
Biwabik	Denfeld	Herman
Blackduck	Eagle Bend	Heron Lake
Blooming Prairie	East Grand Forks	Hibbing
Blue Earth	Elbow Lake	Hinckley
Brainerd	Elk River	Hopkins
Breckenridge	Elmore	Houston
Brown Valley	Ely	Howard Lake
Buffalo	Eveleth	Hutchinson
Buhl	Excelsior	International Falls
Caledonia	Fairfax	Ivanhoe
Cambridge	Fairmont	Jackson

Janesville	Mountain Lake	Slayton
Jordan	New Prague	Sleepy Eye
Kasota	New Richland	South St. Paul
Kasson	New Ulm	Springfield
Kenyon	Northfield	Spring Grove
Kerkhoven	North St. Paul	Spring Valley
Lake Benton	Norwood—Young	Staples
Lake City	America	Stephen
Lake Crystal	Olivia	Stewartville
Lakefield	Ortonville	Stillwater
Lake Park	Osakis	Thief River Falls
Lamberton	Owatonna	Tracy
Lanesboro	Park Rapids	Two Harbors
Le Roy	Paynesville	Tyler
Le Sueur	Pelican Rapids	Villard
Le Sueur Center	Perham	Virginia
Litchfield	Pine City	Wabasha
Little Falls	Pine Island	Wadena
Long Prairie	Pine River	Walker
Luverne	Pipestone	Warren
Lyle	Plainview	Waseca
McIntosh	Preston	Waterville
Mabel	Princeton	Wayzata
Madelia	Red Lake Falls	Welcome
Madison	Red Wing	Wells
Mahnomen	Redwood Falls	West Concord
Mankato	Renville	Wheaton
Mantorville	Rochester	White Bear
Maple Lake	Royalton	Willmar
Mapleton	Rush City	Windom
Marshall	Rushford	Winnebago
Melrose	St. Charles	Winona
Milaca	St. Cloud	Winthrop
Minneapolis	St. James	Worthington
Central	St. Louis Park	Zumbrota
East	St. Paul	
North	Central	
South	Humboldt	
West	John A. Johnson	
Minneota	Mechanic Arts	
Montevideo	St. Paul Normal	
Montgomery	St. Peter	
Monticello	Sandstone	
Moorhead	Sauk Center	
Mora	Sauk Rapids	
Morris	Shakopee	
Morton	Sherburn	

Graduates of the following private schools will be admitted to the freshman class under the regulations governing admissions of high-school graduates.

Albert Lea	Windom Institute
Albert Lea College, Preparatory	Moorhead
Department	Concordia College
Collegeville	Owatonna
St. John's College	Pillsbury Academy
Duluth	Red Wing
Cathedral High School for Boys	Academy of the Red Wing Semi-
Cathedral High School for Girls	nary
Villa Sancta Scholastica	Lutheran Ladies' Seminary
Faribault	St. Joseph
Bethlehem Academy	Convent of St. Benedict
St. Mary's Hall	St. Paul
Shattuck Military Academy	Bethel Academy
Fergus Falls	St. Joseph Academy
Park Region Luther College	St. Paul Academy
Frontenac	St. Thomas College
Villa Maria	The Backus Schools for Girls
Minneapolis	The College of St. Catherine
Blake School for Boys	The Loomis School
Graham Hall	Visitation Convent
Minnesota College	St. Paul Park
St. Margaret's Academy	St. Paul's College
Stanley Hall	Winona
Montevideo	St. Claire Seminary

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The following statements indicate in a general way the preparation which the University expects in the various subjects accepted for admission. The number of units in parentheses following each subject indicates the maximum credit accepted by any one college of the University and does not mean that all colleges will accept the maximum stated. See pages 21 to 26 for statements of the requirements of the individual colleges.

GROUP A. ENGLISH.

Three or four units*

In order to secure a definite plan of study and unity of method on the part of preparatory schools, the entrance requirement in English is outlined below somewhat in detail. To satisfy this requirement a course of not less than four hours per week must be pursued during the time specified above. The headings under which instruction will naturally fall are:

- I. The Principles of Rhetoric.
- II. Practice in Written Expression.
- III. English Classics.

* See note on page 19.

I

The work in the principles of rhetoric should include the principles and technical terms of ordinary texts upon the subject, whether acquired by the direct study of such text or mainly by the study of selected English masterpieces. It should not be forgotten that this is not an end in itself, but simply a means of teaching the student the correct use of English.

II

Not less than an hour a week in each of the four years of the course should be devoted to work in composition, which should be criticized both orally and in writing by the teacher. Such subjects should be chosen as will best make this written work an expression of the lives and interests of the students, who should be taught to observe accurately, think logically, and write correctly and forcefully.

III

The preparation in English Literature should consist in the study of a limited number of English classics and in the reading of a larger number. The following lists of books, headed respectively *reading* and *study*, are quoted from the report of the National Conference on Uniform Entrance Requirements in English. They will be found suggestive to those preparing students for the University. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary application, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. READING.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units are to be selected, two from each group:

Group 1. The *Old Testament*, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

Group 2. *Shakespeare*.—*Midsummer Night's Dream*; *Merchant of Venice*; *As You Like It*; *Twelfth Night*; *The Tempest*; *Romeo and Juliet*; *King John*; *Richard II*; *Richard III*; *Henry V*; *Coriolanus*; *Julius Caesar**; *Macbeth**; *Hamlet**.

Group 3. *Prose Fiction*.—Two to be selected.—Malory's *Morte d'Arthur* (about 100 pages); Bunyan's *Pilgrim's Progress*, Part I; Swift's *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag); De Foe's *Robinson Crusoe*, Part I; Goldsmith's *Vicar of Wakefield*; Frances Burney's *Evelina*; Scott's Novels (any one); Jane Austen's Novels (any one); Maria Edgeworth's *Castle Rackrent*, or *The Absentee*; Dickens' Novels (any one); Thackeray's Novels (any one); George Eliot's Novels (any one); Mrs. Gaskell's *Cranford*; Kingsley's *Westward Ho!* or *Hereward, the Wake*; Reade's *The Cloister and the Hearth*; Blackmore's *Lorna Doone*; Hughes' *Tom Brown's School-days*; Stevenson's *Treasure Island*, or *Kidnapped*, or *Master of Ballantree*; Cooper's Novels (any one); Poe's Selected Tales; Hawthorne's *The House of the Seven Gables*, or *Twice-Told Tales*, or *Mosses from an Old Manse*; a collection of *Short Stories* by various standard writers.

Group 4. *Essays, Biography, etc.*—Two to be selected.—Addison and Steele's *The Sir Roger de Coverley Papers*, or Selections from the *Tatler* and *Spectator* (about 200

*If not chosen for study under (b).

pages); Boswell's *Selections from the Life of Johnson* (about 200 pages); Franklin's *Autobiography*; Irving's *Sketch Book* (about 200 pages), or *Life of Goldsmith*; Southey's *Life of Nelson*; Lamb's *Essays of Elia* (about 100 pages); Lockhart's *Life of Scott* (about 200 pages); Thackeray's *Lectures on Swift, Addison and Steele in the English Humorists*; Macaulay's *Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, Madame d'Arblay* (any one); Trevelyan's *Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies, or Selections* (about 150 pages); Dana's *Two Years Before the Mast*; Selections from Lincoln, including at least the two *Inaugurals*, the *Speeches in Independence Hall* and at *Gettysburg*, the *Last Public Address*, and the *Letter to Horace Greeley*, together with a brief memoir or estimate; Parkman's *The Oregon Trail*; Thoreau's *Walden*, Lowell's *Selected Essays* (about 150 pages); Holmes's *The Autocrat of the Breakfast Table*; Stevenson's *An Inland Voyage*, and *Travels with a Donkey*; Huxley's *Autobiography*, and selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge, A Liberal Education*, and *A Piece of Chalk*; a collection of *Essays* by Bacon, Lamb, De Quincey, Hazlitt, Emerson, and later writers; a collection of *Letters* by various standard writers.

Group 5. *Poetry*.—Two to be selected.—Palgrave's *Golden Treasury (First Series)*, Books II and III with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury (First Series)* Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under b); Goldsmith's *The Traveller*, and *The Deserted Village*; Pope's *The Rape of the Lock*; a collection of English and Scottish Ballads, as, for example, some Robin Hood ballads. *The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens*, and a selection from later ballads; Coleridge's *The Ancient Mariner, Christabel*, and *Kubla Khan*; Byron's *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon*; Scott's *The Lady of the Lake*, or *Marmion*; Macaulay's *The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivory*; Tennyson's *The Princess, or Gareth and Lynette; Lancelot and Elaine, and The Passing of Arthur*; Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus*; Arnold's *Sohrab and Rustum*, and *The Forsaken Merchant*; Selections from *American Poetry*, with special attention to Poe, Lowell, Longfellow, and Whittier.

B. STUDY.—This part of the requirement is designed to insure a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

- (1) Shakespeare's *Julius Caesar, Macbeth, Hamlet*.
- (2) Milton's *L'Allegro, Il Penseroso*, and either *Comus* or *Lycidas*; Tennyson's *The Coming of Arthur, The Holy Grail, and The Passing of Arthur*; the selections from Wordsworth, Shelley, and Keats, in Book IV of Palgrave's *Golden Treasury (First Series)*.
- (3) Burke's *Speech on Conciliation with America*; Macaulay's *Two Speeches on Copyright and Lincoln's Speech at Cooper Union*; Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*.
- (4) Carlyle's *Essay on Burns*, with a selection from Burns's *Poems*; Macaulay's *Life of Johnson*; Emerson's *Essays on Manners*.

GROUP B. LANGUAGES

Latin

In place of the work specified below the University also accepts the work recommended in the report of the Cleveland Commission on College Entrance Requirements in Latin.

Latin Grammar (one unit).—This will include the subjects of orthography, etymology, and syntax. Proficiency is particularly desired in the following subjects: the

analysis of the verb forms, the rules of syntax, and the principal parts of the irregular verbs.

Caesar (one unit).—First four books or selections from the seven books equivalent to four; or three books, with thirty pages of Cornelius Nepos, or two books with sixty pages of Cornelius Nepos. The student is expected to be familiar with the life of Caesar and an account of his wars.

Cicero (one unit).—Any six orations from the following list: *Against Catiline*, *Poet Archias*, *Ligarius*, *Marcellus*, *Manilian Law* (to count as two orations), the fourteenth *Philippic*. The student should also be familiar with the life of Cicero.

Virgil (one unit).—Six books of the *Aeneid*, or five of the *Aeneid* and one of the *Metamorphoses* of Ovid, or the *Eclogues*. The student should be familiar with the life of Virgil and an account of his times and writings. A correct rhythmical reading of the text is to be encouraged.

Greek

Greek Grammar (one unit).

Xenophon's Anabasis, four books (one unit).

German (four units)

In the first year the student should acquire:

1. Correctness and ease of pronunciation; the ability to read from the text with the proper sentence accent.

2. A vocabulary of a thousand words in everyday use; facility in expressing his thoughts in simple sentences. As a means to this, at least 150 pages of narrative prose, and some poetry, should be read. Using the subject matter of the daily reading lesson as a basis, the teacher should, through rapid question and answer, develop the student's power of self expression in the foreign idiom.

3. The essentials of German grammar, to be taught inductively in conjunction with the oral development of the reading lesson indicated in (2). Toward the last of the year the essentials should be reviewed with accuracy and in detail, with the help of sentences and free composition. Some free composition, or written answers to questions, should be required frequently after the first weeks.

In the second year students should:

1. Read 200-300 pages of prose and poetry. The better students should be encouraged to private reading of simple texts. The use of classics in the second year is discouraged. A very simple text should be chosen for the first weeks to make the transition from the beginning course less abrupt. Other texts should follow of which the language is sufficiently modern to lend itself well to oral treatment of the subject matter in class. This course should continue the effort of the first year to develop, by means of question and answer in German, the accurate and immediate knowledge of the language through direct imitation and spontaneous use of the idiom of the text. This work may be supported by occasional translation from English into German, based, preferably, upon the text read.

2. Translate selected passages of the text into idiomatic English. To translate sentences which the student already understands is a waste of time. Usually a paraphrase, or a brief explanation in German, of a difficult passage is more satisfactory than translation.

3. Review topically the essentials of German grammar, including the chief rules of orthography and syntax.

One or two additional years of work in literature will be accepted. Students presenting four years of high-school German are admitted to advanced standing.

French (four units)

Work of the first year should comprise:

1. Careful drill in pronunciation.

2. Rudiments of grammar, including inflection of the more common irregular verbs.

3. Abundant practice in turning simple English into French.
4. Reading of 100 to 175 pages of simple French, including ample practice in sight translation.
5. Writing of French from dictation.

Work of the second year should comprise:

1. Complete and thoro drill in grammar.
2. Drill in connected prose composition.
3. Reading of 250 to 400 pages of modern prose and poetry.
4. Continued practice in writing French from dictation.

Work of the third and fourth years: If a third and fourth year are offered, they should consist of (1) advanced connected prose composition, (2) reading of more difficult French with emphasis on the literary side, and (3) oral practice.

Spanish (four units)

Courses in Spanish should follow the same plan as for French.

Scandinavian Languages

Norwegian or *Swedish* (four units).—The student should acquire the principles of grammar, ability to read and translate ordinary prose and easy poetry, also to translate from English, and a fair acquaintance with the history of the Scandinavian countries. Two additional years' work in literature will be accepted.

GROUP C. HISTORY AND SOCIAL SCIENCES

History

Ancient History (one unit).—This study should begin with a brief survey of the oriental peoples who have most influenced European development, and should be carried down to the establishment of Charlemagne's empire.

Modern History (one unit).—From Charlemagne to the present. It is desirable to give at least one third of the year to the period from 1789.

English History (one-half or one unit).—The Saxon period should be passed over rapidly. In the remainder of the work, besides the narrative, constitutional points should receive attention, and easily accessible documents should receive careful study.

Senior American History (one-half unit).—No attempt should be made to cover the whole field in this time. In the study of any period in the nineteenth century special attention should be paid to economic development and the westward movement.

Social Sciences

American Government (one-half or one unit).—This should be a study of our government, national, state, and local, as it is organized and actually operated today. The instruction should aim to impart information essential to intelligent, active citizenship, such as the division of the government into departments, their organization and function; the methods of nominating, electing, and appointing men to office; of framing and amending constitutions, city charters, and statutes; of drawing grand and petit juries and the duty of the citizen to serve on them; the distinction between common law, state law, and constitutional law, between equity, civil, and criminal cases.

Elementary Economics (one-half unit).—In the study of Economics it is desirable to avoid two extremes, abstract theory on the one hand, and controversial questions, such as the tariff, trusts, and trade unions, on the other hand. Emphasis should be placed on historical and descriptive matter, especially relating to the economic development of England and the United States. Some good elementary textbook should be mastered and a reasonable amount of collateral reading required.

History of Commerce (one-half or one unit).—This forms the natural introduction to the study of present economic conditions. It would be well to give special attention to the economic history of England and the United States. The work should

be based on a text-book, supplemented by carefully directed map work and assigned readings. This should be preceded by a year course of medieval and modern European history.

Commercial Geography (one-half or one unit).—This describes and seeks to explain the commerce of today. The work should cover the ways in which commerce depends on nature and on man, the development of means of transportation and communication, and a detailed study of the several commercial regions of the world with reference to resources, industries, transportation facilities, and commerce. It should be based on a text-book supplemented by map work and assigned readings.

GROUP D. MATHEMATICS

Elementary Algebra (one unit).—Positive and negative numbers; addition; subtraction; multiplication; division; factoring; highest common divisor and lowest common multiple by factoring; fractions; equations of the first degree in one, two, and three unknowns, with numerous problems involving such equations; involution (omitting the binomial theorem); evolution (omitting cube root); elementary manipulation of surds; irrational equations that lead to equations of the first degree; pure quadratic equations; affected quadratic equations by the method of completing the square and by factoring, with problems involving such equations.

Higher Algebra (one-half unit).—A review of elementary algebra with more difficult problems and with some demonstrational work; the factor theorem; the binomial theorem for positive integral exponents; cube root; fractional, negative, and zero exponents; surds, radicals, and imaginaries; the solution of affected quadratic equations by formula; equations in the quadratic form; simultaneous quadratic equations; arithmetic and geometric progressions. The course in higher algebra should be taken by students in their third or fourth high-school year.

Plane Geometry (one unit).—Any of the standard texts on this subject will furnish the necessary preparation. Isoperimetry, symmetry, and maxima and minima of figures are not required. The exercises requiring solutions and demonstrations should not be omitted.

Solid Geometry (one-half unit).—Any of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should not be omitted.

GROUP E. NATURAL SCIENCES

Physics (one unit).—It is suggested that the year's work be confined to four of the seven subjects mentioned below.

(1) Mechanics of solids, (2) liquids and gases, (3) sound, (4) heat, (5) light, (6) and (7) electricity and magnetism (to count as two subjects, but not to be divided).

Chemistry (one unit).—The full year's work should include a study of both the non-metals and metals with laboratory experiments illustrating the common chemical laws and the commoner chemical reactions.

Botany (one-half or one unit).—The course in Botany should extend through the school year whenever it is at all possible, even if as much time can not be given to it each week as when it occupies a single semester. The course should follow as closely as possible the nature and work of plants during the changing seasons of the year. The major portion of the work should be with living plants, naming the common plants of the neighborhood, both cultivated and native, and studying plant parts from the seed to maturity. A detailed outline of such courses will be furnished upon request.

Zoology (one-half or one unit).—Animals should be studied as living units in their relation to one another and their environments. This study should include developmental stages as well as the adult stage. The aim of the teacher should be to foster a love for animate nature and to develop accuracy in observation and description.

Astronomy (one-half unit).—An elementary course in general astronomy as presented in any good modern text-book will satisfy this requirement.

Geology (one-half unit).—These subdivisions should receive special attention: physiographic geology, the building of the land and the evolution of its existing contours; geodynamics the modifying of the earth by atmosphere, water, terrestrial heat, plants, and animals, and a brief survey of historical geology.

Physiography (one-half unit).—The following topics should be emphasized: meteorology, the leading facts relating to the atmosphere and its phenomena, including some acquaintance with the work of the United States weather bureau; land sculpture, as it treats of the origin, development, and degradation of land forms; and the influence of these processes on the physical environment of man.

GROUP F. VOCATIONAL AND MISCELLANEOUS SUBJECTS

Not more than four units are allowed in the following vocational subjects, including business subjects, manual subjects, domestic art and science, and agriculture.

Business Subjects

Business Law (one-half unit).—The object of this study is not to make "every man his own lawyer," but rather to enable him to keep out of legal complications. Text-book supplemented by study of a few typical cases, and practice in drawing up ordinary legal papers, such as bills, notes, checks, etc.

Business Arithmetic (one-half unit).—The object is, first of all, absolute accuracy and, secondly, speed in ordinary business complications. The topics to be emphasized are fundamental operations, common fractions having as denominator 2, 3, 4, 6, and 8, a few common weights and measures, percentage and its applications, and useful short methods, especially interest and other calculation tables. The work should be based on a text-book, supplemented by numerous live exercises from current sources.

Elementary Bookkeeping (one unit).—A text-book should be employed with exercises so arranged that no two pupils will do exactly the same work, and no credit should be allowed unless the work is done neatly, accurately, and at a satisfactory rate of speed. It is suggested that double periods be provided, and all work be done in class under the eye of the instructor. The set used should include the journal, cash book, sales book, ledger, check book, bank pass book, and trial balance book.

Advanced Bookkeeping and Business Practice (one unit).—Thoro drill on standard business forms, such as bills, receipts, checks, notes, etc., also on the use and meaning of business symbols and abbreviations. The student should become acquainted with the bill book and invoice book, and loose leaf and voucher systems of bookkeeping. Each student should carry on a business of his own, first as an individual, then as a partnership, and finally as a corporation. Credit on this course should mean that the student lacks only age and actual business experience to become a competent bookkeeper.

Stenography and Typewriting (two units).—This work is expected to occupy not less than two periods daily for two years. No credit should be given for either shorthand or typewriting if taken alone. Nothing but the touch method should be used in typewriting. The essentials are, first, accuracy and speed in taking dictation and transcribing notes; secondly, correct spelling, capitalization, punctuation, and paragraphing. The minimum speed at the end of the first year should be 75 words per minute in dictation and 25 words per minute on the machine; and at the end of the second year, 100 words per minute in dictation, and 35 words per minute in transcribing notes. Thoro training should also be given in care of the machine, in modern methods of manifolding, and in filing papers.

Manual Subjects

Owing to the fact that drawing and shop work do not require outside preparation they should not be credited by the schools on the same basis as the academic

subjects. Therefore half credits are allowed; that is, one full credit for two years of work one period daily, or for one year of work two periods daily, in each subject.

Freehand Drawing (two units).

Mechanical Drawing (two units).

Joinery (one-half unit).

Wood Turning and Cabinet Making (one-half unit).

Pattern Making and Forge Shop (one-half unit).

Machine Shop, including Chipping, Filing, and Work on the Iron Lathe (one-half unit).

Drill Press and Iron Planer (one-half unit).

Clay Modeling (one-half unit).

Wood Carving (one-half unit).

Note restriction for the College of Engineering and Architecture, page 22, section 4.

Home Economics

Domestic Art (two units).

Domestic Science (two units).

Agriculture

Agriculture is accepted for from one to four units from schools receiving special state aid for Agriculture and also from other schools in which such course in Agriculture is approved by the State High School Board, as fast as the said schools are prepared to offer work in Agriculture.

NORMAL TRAINING SUBJECTS

One to three units are accepted from schools giving normal courses approved by the State High School Board, providing the applicant has had one year of subsequent teaching experience.

DEGREES

The candidate for a degree must complete the requirements for graduation in his course. Any person may undergo, at suitable times, an examination in any subject, and if such person pass in all the studies and exercises of the course, he is entitled to the appropriate degree; provided, however, that at least one full year (the one immediately preceding the granting of the degree) must be spent at the University, before such degree shall be granted, and provided that examination, in every case, be held before a committee of the Faculty appointed for that purpose.

For detailed information concerning requirements, see pages 12-17, also the bulletin of the appropriate college or school.

THE UNIVERSITY STATE TEACHERS' CERTIFICATE

The University State Teachers' Certificate is granted to all graduates of the College of Education and to those graduates of the Colleges of Agriculture and of Science, Literature, and the Arts who satisfy the requirements as stated in the bulletins of those colleges.

This certificate by state law authorizes students to teach in the public schools of Minnesota for two years from date. After that time, upon satisfactory evidence of the student's successful teaching experience, the certificate may be made permanent by the endorsement of the Superintendent of Education and the President of the University.

EXPENSES

FEEES

DEPOSIT FEE

At the beginning of each year, in addition to the first semester incidental fee, a deposit fee of five dollars (Medicine and Dentistry, ten dollars) is required of every student to cover the following possible charges:

Change of registration.....	\$2.50
Examination for removal of condition at set time.....	\$1.00 a subject
Rental of post-office box, university post-office (required of all) .....	.50 a year
Locker rental, locker key deposit.....	\$0.50 to \$1.00 a year
Case-book deposit (Law School), laboratory breakages, or damage to University property.	
Penalties for late registration or late payment of fees.	

A penalty fee of one dollar (\$1.00) must be paid by all students who register or pay fees after the prescribed time. (See calendar, page 7.) After the day previous to that on which classes begin, the penalty for delay increases at the rate of twenty-five cents a day.

The unused balance of the deposit fee will be returned at the end of each year. If, at any time during the college year, the charges against a student shall warrant a renewal of the deposit, a second fee of five dollars (\$5.00) will be required.

SPECIAL FEES

The following special items may be included in the expenses of a student:

Minnesota Union membership (required of men)....	\$1.00 a semester
Special examination for removal of condition, at other than the set time	\$5.00
Examination on subject taken out of class.....	5.00
No fee for such examinations on first entering the University, if taken within the first six weeks.	
Military uniform, men	15.00
Gymnasium suit, men and women (approximately).....	5.00

INCIDENTAL FEES

One half of the annual incidental fee, which includes all laboratory charges, is payable at the beginning of each semester. Cards entitling the student to admission to classes will not be issued until the fees have been paid.

EXPENSES

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Note books and supplies (Estimated)	5.00
Military uniform	15.00
Freshman Year	
Annual incidental fee.....	\$ 55.00
Books (Estimated)	25.00
Military uniform	15.00
Draughting instruments (Estimated)	\$ 15.00
Note books and supplies (Estimated)	5.00
Sophomore Year	
Annual incidental fee.....	\$ 55.00
Field work { Surveying }	100.00 to 150.00
(May 1 to July 1) { Geological }	
Books (Estimated)	15.00
Note books and supplies (Estimated)	5.00
Junior Year	
Annual incidental fee.....	\$ 55.00
Field work { Mining }	175.00 to 250.00
May 1 to July 1 { Metallurgy }	
Books (Estimated)	30.00
Note books and supplies (Estimated)	5.00
Senior Year	
Annual incidental fee.....	\$ 55.00
Books (Estimated)	15.00
Note books and supplies (Estimated)	5.00
<i>College of Pharmacy:</i>	
Annual incidental fee, three-year course.....	\$ 55.00
Military uniform.....	15.00
<i>School of Chemistry:</i>	
Annual incidental fee.....	\$ 55.00
Military uniform.....	15.00
<i>College of Education:</i>	
Annual incidental fee, resident.....	\$ 40.00
Annual incidental fee, non-resident.....	80.00
<i>The Graduate School:</i>	
Annual incidental fee.....	\$ 30.00

STUDENTS EXEMPT FROM FEES

All fellows, scholars, assistants, instructors and all members of the teaching staff and scientific bureaus or experiment stations shall not be required to pay university fees or tuition.

FEES FOR STUDENTS OF ONE COLLEGE TAKING WORK IN ANOTHER

Where a student of a given college or school elects courses in another, such courses being accepted by the college in which the student is

registered as a part of its curriculum, the tuition shall be that of the college in which he is registered.*

If, at any time, such student desires credit for this course towards the degree offered by the second college, he shall pay such additional tuition as is required by the second college, charged in accordance with the schedule indicated below.

FEE SCHEDULE FOR STUDENTS CARRYING LESS THAN FULL WORK

Students carrying less than the complete schedule of work may pay fees on a credit-hour basis. The following table indicates the charge for each college, also the minimum amount that may be paid by any student.

COLLEGE OR SCHOOL	Credit Hour Fee	Minimum Total
Science, Literature, and the Arts.....	\$2.50	\$ 5.00
Engineering	3.00	10.00
Agriculture	2.50	5.00
Law	5.00	10.00
†Medicine	3.00	10.00
†Dentistry	3.00	10.00
Mines	2.00	10.00
†Pharmacy	3.00	10.00
Chemistry	3.00	10.00
Education	2.50	5.00
Graduate School	2.00	5.00

† In these three colleges the pro-rating is on the basis of clock hours.

LIVING EXPENSES

BOARD AND ROOM

Women.—Sanford Hall, the one dormitory for women, accommodates ninety girls, about one half of whom may be freshmen. The charge for room and board is \$225 for the University year. Applications should be sent to the Director of Sanford Hall, University of Minnesota.

After June 1 the Registrar will supply a list of approved boarding and rooming places. Women may not engage rooms in houses not on this list without permission of the Dean of Women. Luncheons on the cafeteria plan are served daily in Shevlin Hall.

Men.—A list of approved boarding and rooming places may be had upon request at the Bureau of Information and Employment.

At the Minnesota Union, the men's club house on the campus, three meals a day may be secured on the cafeteria plan at practically cost prices.

* A student paying full fees in a given college, electing courses in a lower-fee college, shall pay no additional fees for the work so elected, but if electing in a higher-fee college may have the option of paying the pro rata fees of both or the full fees of the first and pro rata fees of the second.

Last year the average price paid for breakfast was 11 cents, luncheon 18 cents, dinner 20 cents. Board by the week varied from three to four dollars.

All Students.—The expense of living at the University varies greatly according to individual habits and tastes. In general the scale of expenses is below rather than above that of similar institutions in the middle west and is considerably lower than that of most institutions situated in the eastern states.

GENERAL EXPENSES—ESTIMATED

The following tables give estimates of the freshman student's expenses in college, omitting clothing, railroad fare, and vacation expenditures. To live within the minimum rate, a student must forego all luxuries and economize in every expenditure.

COLLEGES OF SCIENCE, LITERATURE, AND THE ARTS, EDUCATION, AGRICULTURE, AND FORESTRY

	Minimum	Average	Liberal
*Annual incidental fee.....	\$40.00	\$40.00	\$40.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Gymnasium suit.....	4.50	4.50	4.50
Military uniform	15.00	15.00	16.50
Books	12.00	15.00	20.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	\$246.90	\$452.50	\$627.00

* Annual incidental fee for undergraduate students residing outside the State of Minnesota is \$80.

Funds absolutely necessary for immediate expenses upon entering these colleges, including two weeks' board and first month's room rent in advance; minimum, \$60.00; average, \$70.00.

COLLEGE OF ENGINEERING AND ARCHITECTURE

	Minimum	Average	Liberal
Annual incidental fee.....	\$60.00	\$60.00	\$60.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books and instruments	25.00	30.00	35.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	\$275.40	\$483.00	\$657.50

Necessary for immediate expenses upon entering this College: minimum, \$85.00; average, \$95.00.

LAW SCHOOL

	Minimum	Average	Liberal
Annual incidental fee.....	\$65.00	\$65.00	\$65.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Notebooks	5.00	6.00	7.50
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$245.40	\$449.00	\$618.50

Necessary for immediate expenses upon entering this School: minimum, \$50.00; average, \$57.50.

MEDICAL SCHOOL: FIRST YEAR

	Minimum	Average	Liberal
Annual incidental fee.....	\$150.00	\$150.00	\$150.00
Deposit fee	10.00	10.00	10.00
Minnesota Union fee.....	2.00	2.00	2.00
Books and instruments	25.00	30.00	30.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
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	\$355.40	\$563.00	\$731.00

COLLEGE OF DENTISTRY

	Minimum	Average	Liberal
Annual incidental fee.....	\$100.00	\$100.00	\$100.00
Deposit fee	10.00	10.00	10.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books and instruments	100.00	125.00	150.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$395.40	\$623.00	\$817.50

Necessary for immediate expenses upon entering this College: minimum, \$185.00; average, \$215.00.

SCHOOL OF MINES

	Minimum	Average	Liberal
Annual incidental fee.....	\$55.00	\$55.00	\$55.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform	15.00	15.00	16.50
Books, etc.....	20.00	25.00	25.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$265.40	\$473.00	\$642.50

Necessary for immediate expenses upon entering this College: minimum, \$70.00; average, \$82.50.

COLLEGE OF PHARMACY

	Minimum	Average	Liberal
Annual incidental fee.....	\$55.00	\$55.00	\$55.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Military uniform.....	15.00	15.00	16.50
Books and instruments	17.50	20.00	20.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
	<hr/>	<hr/>	<hr/>
	\$262.90	\$468.00	\$637.50

Necessary for immediate expenses upon entering this College: minimum, \$72.25; average, \$80.00.

SCHOOL OF CHEMISTRY

	Minimum	Average	Liberal
Annual incidental fee.....	\$55.00	\$55.00	\$55.00
Deposit fee	5.00	5.00	5.00
Minnesota Union fee.....	2.00	2.00	2.00
Gymnasium suit.....	4.50	4.50	4.50
Military uniform	15.00	15.00	16.50
Books and instruments	11.75	13.00	15.00
Laundry	14.40	20.00	35.00
Room rent	36.00	63.00	108.00
Board	108.00	144.00	180.00
Incidentals	10.00	144.00	216.00
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	\$261.65	\$465.50	\$637.00

Necessary for immediate expenses upon entering this School: minimum, \$68.00; average, \$78.00.

SELF-SUPPORT

The Bureau of Employment is maintained for the purpose of assisting all students who seek employment, and of developing in all proper ways opportunities for self-help. Communications from students and graduates in regard to obtaining employment should be addressed to this bureau. Students or prospective students applying for the first time must appear at the office in person.

For the benefit of those who are without support of any kind it may be said that many students, with the aid of the money saved during the summer, are making all of their college expenses. Some are able to earn their expenses during the college year, but this can be done only by students of unusual force and adaptability, or with exceptional opportunities. The average man must meet stern competition; he must live economically; he must guard his health while preserving a fair balance between time given to studies and to outside work.

It is not a good policy to begin life in a new community entirely without resources. A prospective student should have at least \$100 or the equivalent in addition to tuition fees; even then it will be necessary for him to do outside work and live very economically. Before he can place himself in a self-supporting position he may have to try again and again, and meanwhile his living expenses will be accumulating. An adequate reserve fund under such conditions will secure peace of mind, health of body, and the benefits of the college year.

The Twin Cities offer exceptional opportunities to the self-supporting student. Students are employed as clerks, bookkeepers, stenographers, salesmen, solicitors, telegraph operators, mechanics, assistants, musicians, waiters, laborers, janitors, telegraph operators, and in many other capacities. Considerable work can be secured within walking distance.

Applicants for employment should bear in mind that, while every effort is made to secure work for all who need it, positions can not be assigned in the order in which applications are made. The places available are of so varied a nature that it would be impossible to assign them in order, without regard to the ability and qualifications of different applicants. The employer must secure the best man for his particular position. This means that fitness must be given first consideration. Whenever possible, however, the order of applications is followed.

Those who find themselves without funds at the beginning of the college year would do well to forego registration in day classes but rather seek employment during the day and take up some of the Evening Extension Courses. Those who live in the Twin Cities, or who are able to secure work here, could take the Extension Courses on the Campus and in that way familiarize themselves with conditions. By choosing subjects for which University credit is allowed, these students would make their regular course much easier and give themselves more time for outside work. The Correspondence Courses offered by the Extension Division are available to all. Students who can meet the usual requirements for college entrance are allowed University credit for most of these courses.

SCHOLARSHIPS, LOANS, AND PRIZES

GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

Shevlin Fellowships

The University of Minnesota offers four Shevlin Fellowships of \$500 each for the year 1915-16. They are open to graduate students, one each in the Colleges of Agriculture, Chemistry, Medicine, and Science, Literature, and the Arts. Applications for these fellowships must be made on or before March 1. Blank applications can be obtained from the Dean of the Graduate School.

Assistants and Scholars

The following Assistantships and Scholarships are also open to graduate students. They carry stipends ranging from \$225 to \$800 with remission of tuition in the Graduate School. Appointments are made upon the recommendation of the departments concerned. Applications may be made through the Dean of the Graduate School.

Agriculture	16 Assistants
Animal Biology.....	{ 2 Teaching Fellows
	{ 3 Assistants
Astronomy	1 Scholar
Botany	3 Assistants
Chemistry	7 Assistants
Comparative Philology.....	1 Scholar
Economics	{ 2 Assistants
	{ 2 Scholars
Education	2 Scholars
English	{ 1 Assistant
	{ 2 Scholars
Geology and Mineralogy.....	{ 1 Teaching Fellow
	{ 2 Scholars
German	{ 1 Teaching Fellow
	{ 2 Scholars
History	{ 2 Teaching Fellows
	{ 2 Scholars
Mathematics	{ 1 Assistant
	{ 1 Scholar
Medical School.....	{ 6 Teaching Fellows*
	{ 36 Mayo Fellows
	{ 5 Scholars
Philosophy and Psychology.....	2 Scholars
Physics	2 Scholars
Political Science.....	2 Scholars
Rhetoric and Public Speaking...	6 Scholars
Romance Languages.....	{ 2 Teaching Fellows
	{ 1 Scholar
Scandinavian	1 Scholar
Sociology and Anthropology...	2 Scholars

* Special Requirements. Address inquiries to Dean of the Medical School.

The Albert Howard Scholarship Fund

This scholarship, amounting to \$240 a year, is awarded to graduate students in the College of Science, Literature, and the Arts.

Class of 1890 Scholarship

As a gift of the class of 1890 the annual income from the sum of \$2,500 will be available in September, 1916, to a graduate of the College of Science, Literature, and the Arts or the College of Engineering who has shown distinguished ability and initiative as a student and who desires to make further preparation for public service.

UNDERGRADUATE SCHOLARSHIPS

Free and Service Scholarships

The following scholarships, open to residents of Minnesota who have been in attendance at the University for at least one semester, will be available after August 1, 1916:

100 semester free scholarships of \$20 each

50 semester service scholarships of \$20 each requiring of the holder eighty hours' service in some division of the University.

Students interested may secure application blanks upon inquiry at the Registrar's Office.

The Moses Marston Scholarship in English

The annual income of one thousand dollars is to be used to further English study. The scholarship is awarded by the English Department as a recognition of special capacity for literary and linguistic studies.

National City Bank Scholarships

The National City Bank of New York City offers to students of the University one or more fellowships each year for the purpose of training young men in banking and foreign trade. The arrangements will include certain periods of practical work and study in the National City Bank. Detailed announcement will be made later.

The Minneapolis College Woman's Club Scholarship

For the year 1916-17 this scholarship amounts to \$150. In awarding it the preference will be given to students in the junior and senior classes and to graduate students. Application for this scholarship may be made to the Dean of Women.

The St. Paul College Woman's Club Scholarship

For the year 1916-17 a scholarship of \$100 is available. In awarding it, the character, the scholarship, and the need of the applicants will be considered. Altho open to all women in the junior and senior classes and to graduate students, preference will be given to young women from St. Paul. Applications for it may be made to the Dean of Women.

STUDENT LOAN FUNDS

Unless otherwise stated, all applications for loans should be made to the University Comptroller.

The Gilfillan Trust Fund

The annual income from this fund of \$50,000 is at the disposal of the Executive Committee of the Board of Regents either as a gift or a temporary loan to worthy students of the University who are residents of Minnesota. The income of \$2,000 is loaned to students on their notes in amounts not exceeding \$200 to any one person in one year, at the rate of five per cent per annum. The regulations governing the administration of the income from the fund may be learned by addressing the President of the University.

The Elliot Scholarship Loan Fund

The income from this fund of \$5,000 is loaned students in the School of Mines on the following conditions: the financial needs of the applicant, his scholarship, moral character, enthusiasm shown in his work, and promise of usefulness in his profession. When money is available, it may be loaned to pay expenses of worthy students during sickness. The loans are to be repaid, without interest, at the earliest convenience of the recipients.

The Puritan Colony Scholarship Loan

For the year 1916-17 this scholarship loan amounts to \$100. It is available for women students of New England birth or ancestry. In awarding it the preference will be given to young women in the junior and senior classes. Application for it may be made to the Dean of Women.

School of Agriculture—Class of 1902 Trust Fund

A fund of \$100 is available for temporary loans to deserving students needing such help who are not below the junior class in the School of Agriculture. Applications should be made to the Dean.

The Ludden Estate Loan Fund

Six hundred and twenty-five dollars is annually available for short or temporary loans in limited amounts, to students in any department of the University.

The Ludden Real Estate Loan Fund

The sum of \$3,000 is available for loans to students in any department of the University.

Loan Fund for Women Students

This fund is to be used for emergency loans to women students whose character and scholarship recommend them for assistance. Application may be made to the Dean of Women.

Home Economics Self-Government Loan Fund

The sum of \$250 is available for small emergency loans to women in the division of Home Economics whose character and scholarship recommend them for assistance. Application may be made to the Dean of Women.

PRIZES

The John S. Pillsbury Prize

Three prizes of one hundred, fifty, and twenty-five dollars each, have been awarded annually for the best work in the Department of Rhetoric and Public Speaking, as evidenced finally by an oration in public.

The Frank H. Peavey Prize

This prize of one hundred dollars is awarded to the members of the team winning the annual freshman-sophomore debate.

The Ludden Trust Prize

The sum of one hundred dollars is available to furnish prizes for the winners of the first three places in the freshman-sophomore oratorical contest.

The Frank O. Lowden Prize

The annual income from \$3,000 is available to orators competing in the Northern Oratorical League. A prize of one hundred dollars will be given to the orator winning the first place and fifty dollars to the winner of second place.

The '89 Memorial Prize in History

A prize of twenty-five dollars each year is given for the best thesis in history, written from the sources, by a member of the graduating class.

The William Jennings Bryan Prize

A prize of fifty dollars will be awarded every fourth year to the writer of the best essay upon a topic in Political Science to be announced. The essay, which is limited to ten thousand words, must be handed to one of the instructors in Political Science by May 1. The next award will be made in 1917.

The Alumni Weekly Gold Medal

This medal is awarded annually by the Faculty Committee on Debate and Oratory, to that member of the graduating class who has, in the judgment of the Committee, made the best record in forensics during his college course. The medal is awarded only to a student who has shown himself broadminded, unselfish, industrious, and willing to work courteously and enthusiastically with others so as to serve the highest interests of debate and oratory in the University.

The Rollin E. Cutts Prize in Surgery

The income from \$500 is awarded in the form of a gold medal to that member of the senior class of the Medical School who presents the best thesis showing original work upon a surgical subject.

The Dr. J. W. Bell Prize in Physical Diagnosis

An annual prize of \$100 is offered in the Medical School, to the student showing the highest proficiency in physical diagnosis. Information as to special conditions connected with this prize may be obtained from the Dean of the Medical School.

The Edwin Ames Jaggard Prize in Legal History

A prize of fifty dollars is awarded each year to the student in the Law School who submits the best essay on some topic in legal history. Topics are assigned at the beginning of the session. Essays in competition are submitted on or before May 1 each year.

The American Law Book Company Prize

A complete set of the Cyclopaedia of Law and Procedure is awarded by the Law Faculty to that student in the Third-Year Class who shall have maintained the highest grade of scholarship throughout the three-years' course leading to the LL.B. degree.

The Briggs Prize in Foundry Practice

Seventy-five dollars annually, in two prizes, accompanied by gold medals, will be awarded to sophomores in the College of Engineering for the best essays relative to foundry practice. No prize will be awarded if less than five essays are submitted in competition. Essays should contain about 3,000 words, and must be submitted to the Professor of Rhetoric on or before May 1.

ORGANIZATIONS AND PUBLICATIONS

SELF-GOVERNMENT ORGANIZATIONS

The Minnesota Union was organized in the spring of 1908 "to promote the best interests and welfare of the University of Minnesota, and comradeship among its members, and to erect and maintain a suitable club house for such purposes." All men students of the University are active members of the Union and are assessed a membership fee of one dollar a semester, payable at the time of registration. The Legislature gave the Chemistry Building for the use of the Union and \$17,500 for remodeling.

The dining room is in operation, and the club rooms on the second floor are fitted up for temporary use until funds are available for remodeling them. The dining room serves three meals a day at practically actual cost. Students are advised to ascertain the Union prices for board before making arrangements elsewhere.

The Women's Self-Government Association is open to all women students of the University. Its purpose is to create a sense of unity and fellowship among the women, to promote and maintain the highest standards of University life and to regulate all matters of student conduct not falling under the jurisdiction of the Faculty. The headquarters of the Association are in Shevlin Hall. Members of the Association will be in readiness during the opening days to meet new students and to serve them in every way possible. The dues are fifty cents a year.

The Home Economics Self-Government Association—The women in the College of Agriculture, altho nominally members of the Women's Self-Government Association, have an independent organization, the Home Economics Self-Government Association, which is open to all women in the College of Agriculture. The form of organization and the purpose of the Association are similar to those of the Women's Self-Government Association, but adapted to the needs of the students in the College of Agriculture.

The All-University Council is composed of representatives elected from the senior class of each college or school. Its function is mainly that of a student self-government body, representing the student body in matters affecting student interest, controlling their activities to a large extent, and endeavoring to unify the spirit and promote the best possible welfare of the University.

College Councils—Several of the colleges of the University have their own councils articulating with the All-University Council and having similiar functions.

MISCELLANEOUS ORGANIZATIONS

There are at the University more than two hundred student organizations representing religious, ethical, literary, scientific, dramatic, athletic,

social and other activities. A complete list of these organizations with brief statements concerning each is given in the Minnesota Blue Book and Students' Social Register, a copy of which will be sent upon request.

PUBLICATIONS

The Bulletin of the University of Minnesota includes the *Original Series* and the *General Series*. The *Original Series* contains the reports of the President and of the Board of Regents, the Register, the Bulletin of General Information, the annual announcements of the individual colleges of the University, etc. The *General Series* contains announcements of departments of instruction, reports of University officers, etc.

Research Publications of the University of Minnesota were begun in 1912 with the support of a special appropriation by the legislature. They contain the results of original investigations by members of the University. They appear in the form of several series of studies, which offer opportunity for the publication of large monographs and of papers of special importance to the people of this state.

Current Problems Series contains papers of general interest in relation to various lines of work.

School of Mines Experiment Station Series contains reports of results of investigations conducted by the State Mining Experiment Station.

Bulletins of the Minnesota Geological Survey include reports of work done in Minnesota by the Minnesota Survey in cooperation with the United States Geological Survey; also, preliminary reports published independently by the Minnesota Survey in order to prevent loss by delaying the use of information of economic value. The most recent reports are *Surface Formations and Agricultural Conditions of Northwestern Minnesota*, and *Preliminary Report on the Clays and Shales of Minnesota*.

Minnesota Botanical Studies and *Minnesota Plant Studies* are published by the Minnesota Botanical Survey. The botanical series gives the results of investigations carried on by the Survey and in the Department of Botany. The plant studies consist of popular booklets treating of the plants of the state. In addition, the Survey publishes at intervals semi-popular scientific monographs such as *Minnesota Plant Life*, *Minnesota Plant Diseases*, and *Minnesota Freshwater Algae*.

Agricultural Experiment Station Bulletins give the results of experiments carried on at University Farm and at the substations at Duluth, Crookston, Grand Rapids, Morris, and Waseca, as rapidly as such work is completed, or as soon as conclusions of economic value are arrived at. At least four such bulletins are published annually. The *Annual Report of the Agricultural Experiment Station* summarizes the business and work of the Agricultural Experiment Station and substations each year.

Minnesota Farmers' Library and *Special Bulletins* are series of popular instructive bulletins issued by the Agricultural Extension Division designed to inform the farmers of the state as to methods tried out at the Experiment Station and substations, or on demonstration farms, and

approved as good practice for Minnesota farmers. *University Farm Press News* is a semi-monthly clip-sheet containing brief instructive articles, designed for reprinting by the newspapers of the state.

The Visitor is a news letter issued monthly by the Division of Agricultural Education of the College of Agriculture. It is sent principally to teachers of agriculture, superintendents of schools and to students of education in the College of Agriculture.

The Minnesota Daily, the University newspaper, is published five times each week during the University year by the Minnesota Daily Association. Its staff is composed entirely of students.

The Minnehaha is an illustrated monthly of satire and humor edited by and circulated among the students of the University.

The Minnesota Magazine is a monthly magazine devoted to the cultivation of literary taste and effort among the students of the University. It is managed by a board of editors chosen from the senior class.

The Minnesota Farm Review is a monthly owned by the alumni of the School of Agriculture, but operated under the direction of a committee representing the faculty, the alumni, and the students of the School and College of Agriculture.

The Junior Annual, called "The Gopher," is a book published annually by the junior class of the University.

The Agrarian is a book published annually by the senior class of the School of Agriculture.

The Minnesota Engineer of the Society of Engineers is issued quarterly. It is devoted to the publication of articles upon engineering subjects.

The Minnesota Alumni Weekly is published each Monday during the University year. It is published in the interests of the alumni and the University.

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