

**MEETING OF THE BOARD OF TRUSTEES**  
**OF THE**  
**UNIVERSITY OF ILLINOIS**

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**June 30, 1945**

**With Executive Committee Meeting of  
July 3, 1945**



The June meeting of the Board of Trustees of the University of Illinois was held at the University Club, 76 East Monroe Street, Chicago, at 10:30 a.m. on Saturday, June 30, 1945.

The following members were present: President Livingston, Mr. Davis, Mr. Forno, Mrs. Grigsby, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson.

President Willard was present; also Mr. A. J. Janata, Assistant to the President, Professor C. R. Griffith, Provost, Dr. R. B. Allen, Executive Dean of the Chicago Colleges, Mr. H. E. Cunningham, Secretary, Mr. Lloyd Morey, Comptroller, and, during part of the day, Mr. J. F. Wright, Director of Public Information, and Mr. D. E. Dickason, Director of Nonacademic Personnel.

**MINUTES APPROVED**

The Secretary presented the minutes of the meeting of May 12, 1945, and of the adjourned session of May 26, 1945.

On motion of Mr. McKelvey, the minutes were approved as printed on pages 451-496 above.

**MATTERS PRESENTED BY PRESIDENT WILLARD**

The Board considered the following matters presented by the President of the University.

**AWARD OF CERTIFICATES OF CERTIFIED PUBLIC ACCOUNTANT**

(1) The Committee on Accountancy recommends that the certificate of Certified Public Accountant be awarded the following who have made applications therefor under the Accountancy Act of 1943 and who have presented evidence to the Committee that they are properly qualified.

Candidates holding unrevoked C.P.A. certificates issued by other states or territories of the United States or the District of Columbia, and earned by passing a written examination (Section 5):

FRANCIS MATHIAS BECHERER (Mo.)

HERBERT DAVISON SOPER (Wis.)

GEORGE RAYMOND BEELER (Ind.)

HARRY WILLIAM YOUNGER (Ind.)

JAMES ALLAN COUNCILOR, JR. (D.C.)

I concur.

On motion of Mr. Williamson, these certificates were awarded as recommended.

**LEAVES OF ABSENCE**

(2) A recommendation that the following leaves of absence, without pay, be granted members of the staff for military and other war services for the period indicated in each case:

KURT SPRINGER, Assistant in the Department of Laryngology, Rhinology, and Otology (Rush), February 1 through August 31, 1945. (Army)

LENORE HERMANN, Staff Nurse, Research and Educational Hospitals, May 22 through August 31, 1945. (Army Nurse Corps)

J. L. DEWTON, Cataloger in the Library, leave of absence without pay from August 1 until October 15, 1945, for a special overseas mission for the Air Technical Service Command at Wright Field. This is a technical inspection service to secure certain scientific data specifically requested by the Army. This leave may be terminated earlier if Mr. Dewton returns prior to October 15.

On motion of Mr. Nickell, these leaves were granted as recommended.

**SPECIAL APPROPRIATIONS FOR NONRECURRING EXPENDITURES**

(3) The Committee on Special Appropriations and Nonrecurring Expenditures recommends assignments from the General Reserve Fund for the following purposes, these appropriations to be available until January 1, 1946:

1. Practice organ for School of Music.....	\$ 2 500
2. Improvements at Dixon Springs Experiment Station:	
House for Assistant Superintendent.....	\$4 000
Machinery storage and repair center.....	4 500
Bleachers for farmers' meetings.....	500
	9 000
3. Special equipment for departments in the College of Agriculture:	
Animal Husbandry.....	\$1 608
Agronomy.....	1 400
Animal Pathology and Hygiene.....	3 687
	6 695
4. Fencing of Trelease Woods area.....	2 650
5. Addition to Agronomy Greenhouse.....	21 100
6. Garage and Service Building for Department of Animal Husbandry...	1 750
7. Office equipment for Council on Teacher Education.....	1 200
8. Construction of ponds at Vivarium for research and educational programs .....	2 200
9. Building improvements for College of Education:	
Improvements in wainscoting at University High School.....	\$800
Purchase and installation of paint spray booth for Industrial Education.....	800
	1 600
<i>Grand Total</i> .....	<i>\$48 695</i>

On motion of Dr. Meyer, these appropriations were made as recommended, by the following vote: Aye, Mr. Davis, Mr. Fornof, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

#### **ADDITIONAL APPROPRIATIONS FOR AGRICULTURAL DEPARTMENTS**

(4) Dean H. P. Rusk requests additional appropriations for various agricultural departments out of income of those departments in excess of budget estimates as follows:

Animal Pathology and Hygiene.....	\$ 300
Dixon Springs Experiment Station.....	2 500
Dairy Husbandry.....	9 000
Horticulture .....	11 000
<i>Total</i> .....	<i>\$22 800</i>

Expenditures of the year in these departments will exceed the budget estimates but income has also exceeded expectation and is more than ample to meet the added appropriation.

The Comptroller concurs in this recommendation and I recommend approval.

On motion of Mr. McLaughlin, this appropriation was made as recommended, by the following vote: Aye, Mr. Davis, Mr. Fornof, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

#### **APPROPRIATION TO FACULTY-GRADUATE STUDENT CENTER TRUST FUND**

(5) The agreement with the University Club of Urbana for the purchase of the Club property provides for a trust fund to be applied toward a faculty-graduate student center. The Board agreed to match all money contributed by the Club to this fund during the biennium ending June 30, 1945.

The Board on January 26, 1944, made an appropriation amounting to \$4,451.02, and on June 1, 1944, an additional appropriation was made in the amount of \$1,400. The University now has received additional contributions totaling \$1,250 to be remitted to the Foundation for credit to this fund.

An additional appropriation of \$1,250 from the General Reserve Fund should now be made in accordance with the agreement.

On motion of Mrs. Grigsby, this appropriation was made as recommended, by the following vote: Aye, Mr. Davis, Mr. Fornof, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

#### **APPROPRIATION FOR LANDSCAPING OF GROUNDS**

(6) The Department of Horticulture which is responsible for the maintenance of the grounds about the President's House at 711 West Florida Avenue has requested an assignment of \$438.15 for replacement of trees, flowering plants, and other landscaping improvements.

I recommend an assignment of this amount from the General Reserve Fund; this appropriation to be available until January 1, 1946.

On motion of Mr. Davis, this appropriation was made as recommended, by the following vote: Aye, Mr. Davis, Mr. Fornof, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

#### **INCREASES IN SALARIES OF NONACADEMIC STAFF**

(7) As reported to the Board on May 26, Senate Bill 321, 64th General Assembly, the University of Illinois biennial budget for 1945-1947 carries a provision making mandatory increases in the salaries of the nonacademic staff

other than those whose compensation is based on local prevailing rates. It is necessary to proceed at once to prepare new records, so that payrolls for July may be made up in time to have checks ready for distribution in the middle of the month and at the end of the month. I have, therefore, authorized the Director of Nonacademic Personnel and the Comptroller to proceed accordingly in order to implement the requirements of the law, subject to its final passage and approval. I am also authorizing the Director of Nonacademic Personnel to send out notices of employment and salary changes to all nonacademic personnel before July 1, 1945.

Confirmation of this action is respectfully requested.

On motion of Mr. Nickell, the actions of the President of the University in this matter were approved and confirmed.

#### ESTATE OF WILLIAM T. ROGERS

(8) The Legal Counsel reports the receipt by the University of a petition for probate of the will of the late William T. Rogers of Buffalo, Sangamon County, in which is the following bequest:

"As soon as practicable after the death of my mother, but not more than two years after her death, my executor shall sell, at public or private sale, the real estate above described, or as much thereof as may remain, and after payment of all of my mother's debts and funeral and burial expenses, said proceeds of sale together with such balance of proceeds of sale or mortgage as may be on hand shall be paid to the University of Illinois, Urbana, Illinois, to constitute and to be administered by it as a loan fund for deserving students at said university, who are in need of financial assistance."

The Springfield Marine Bank of Springfield, Illinois, is Executor for the estate. The estate is being administered for the Executor by Mr. Robert J. Saner, Trust Officer for the Bank. Mr. Clifford Blunk, First National Bank Building, Springfield, is attorney for the estate.

The testator has devised real property to his mother. The land involved consists of approximately 380 acres of farm land near Buffalo, Illinois, and a small residence in Buffalo. The Trust Officer for the Executor has written: "While the land has not been appraised, we believe that the cash value of your bequest will be conservatively \$65,000 to \$75,000."

The Legal Counsel is taking whatever steps are necessary in the matter, and this is being submitted to the Board for information and record.

On motion of Mrs. Grigsby, this report was received for record.

#### PURCHASES AUTHORIZED

(9) The following purchases were recommended by the Purchasing Agent and authorized by the Comptroller. Unless otherwise specified the purchases were made on the basis of lowest bids, ceiling prices, or because the items are non-competitive. Emergency action was necessary to secure delivery in time to meet specific needs or because prices quoted were subject to immediate acceptance.

1. Radium element in monel cylinder, 151.6 milligrams, for the Department of Physics, from the Canadian Radium and Uranium Corporation, New York, at a cost of \$3,034.40.

2. Book paper, 300 reams 25 x 38, 40-lb. English finish, for the Extension Service in Agriculture and Home Economics, from Dwight Bros. Paper Company, at a cost of \$1,077.16.

3. Book paper, 240 reams 25 x 38, 70-lb. enamel, for the Office Supply Store, from Dwight Bros. Paper Company, at a cost of \$1,974.

4. Collection of approximately 2,000 volumes on printing, printing history, and bibliography, for the University Library, from the private library of the late Douglas C. McMurtrie, Chicago, at a cost of \$2,650.

5. One Scopicon, complete with equipment for color photography, for the Department of Neurology and Neurological Surgery, from the Technicon Company, New York, at a cost of \$1,275.

6. One "Worthington" air field tractor, to replace old International F-12 tractor, for the Physical Plant Department, from the Worthington Mower Company, at a cost of \$1,280 less allowance of \$225 for old tractor, or \$1,055 f.o.b. Urbana.

7. Twenty-nine S. S. White dental engines and eleven No. 21, 120-volt, dental motors, for the Crown and Bridge Division, from the S. S. White Dental Manufacturing Company, Chicago, at a cost of \$7,481.70.

8. One 42 x 48 x 96" bulk steel sterilizer with one recording thermometer, and one 24 x 24 x 48" bulk recessed sterilizer with one recording thermometer, for the Research and Educational Hospitals, from the Wilmot Castle Company, Chicago, at a cost of \$3,978 delivered.

9. Four No. 3 dental chairs and four No. 62-E dental units, for the College of Dentistry, from the S. S. White Dental Manufacturing Company, Chicago, at a cost of \$3,402.72.

10. Thirty standard medical microscopes, complete with leatherette cases, mechanical stages, and engraving, for the Student Supply Store, Chicago, from the A. S. Aloe Company, St. Louis, at a cost of \$4,683.

11. Thirty tons pure wheat bran, for the Department of Animal Husbandry, from Valier & Spies Milling Company, St. Louis, at a cost of \$1,205.10.

12. Rare chemicals, as follows: 2,000 grams dl-valine, 2,000 grams dl-phenyl-alanine, 6,000 grams dl-leucine, 5,000 grams dl-isoleucine; 3,000 grams dl-methionine, 500 grams dl-threonine; for the Department of Chemistry, from Merck and Company, Inc., Rahway, N. J., at a cost of \$3,945 f.o.b. Rahway.

On motion of Mr. McLaughlin, the action of the Comptroller in authorizing these purchases was approved and confirmed.

#### GIFTS AND GRANTS OF FUNDS FOR RESEARCH AND OTHER PURPOSES

(10) A report of the following gifts and grants of funds for research and other purposes received by the University since the last report (January 20, 1945):

##### *Gifts*

1. Sahara Coal Company, Chicago, \$8,100 to provide five graduate and four undergraduate scholarships in Mining Engineering.

2. Frederick Green, Professor of Law, *Emeritus*, two registered bonds of the Illinois Central Railroad Company and the Chicago, St. Louis, and New Orleans Railroad Company, par value \$1,000 each, to be added to the principal of the Lois Shepherd Green Scholarship Fund. The principal of this fund is now \$6,000.

3. Illinois Federation of Women's Clubs, Chicago, \$3,500 to be added to the "Illinois Federation of Women's Clubs Scholarship Fund in Occupational Therapy."

4. Blockson Chemical Company, Joliet, \$1,000 to establish a fellowship in the Department of Chemistry.

5. Aeration Processes, Inc., Columbus, Ohio, \$750 for the continuation of a fellowship in Chemistry.

6. Illinois Congress of Parents and Teachers, Chicago, \$600 for the continuation of scholarships for undergraduate students.

7. Mr. John W. Ruettinger, Class of 1927, Chicago, \$500 for continuation of the John C. Ruettinger Memorial Scholarship for 1945-1946.

8. Mrs. Kittie B. Pierce, LaGrange, Illinois, \$500 for continuation of the Phyllis Pierce Ruettinger Scholarships for women students during 1945-1946.

9. American Foundation for Pharmaceutical Education, New York City, \$400 for undergraduate scholarships in the College of Pharmacy.

10. Mr. Robert A. Croninger, a former student, \$400 in United States Savings Bonds, to be credited to the income of the Morava Scholarship Fund at the maturity of these bonds. As an undergraduate student, Mr. Croninger was the recipient of a Morava Scholarship award, an outright grant. Although under no obligation to do so, Mr. Croninger, now in military service, has chosen to reimburse the Morava Scholarship Fund income with War Bonds which at maturity will be equivalent to or exceed the amount of the scholarship awarded him.

11. Mr. J. H. Shoemaker, President of Kolene Corporation, Detroit, Michigan, a Kolene Molten Bath Electric Cleaning Unit, valued at \$300.

12. Mr. Max H. Glass, \$250; Boyar-Schultz Corporation, Chicago, and A. Schultz, President of said Corporation, \$100 each, to the Special Otolaryngology Fund in the College of Medicine.

13. Mr. J. E. Schaefer, Vice-President of Boeing Airplane Company, Wichita Division, and member of the Advisory Board on Aeronautics, \$350 for aeronautical purposes. The University may use this money as it sees fit in this field.

14. From the War Department, three buildings and equipment (formerly used by the Civilian Conservation Corps) for housing prisoners of war at the Illinois Canning Company, Hoopeston, Illinois, and the Hoopeston Canning Company at Hoopeston, who will be employed in harvesting canning crops under the Emergency Farm Labor Program administered by the Extension Service in Agriculture for the Federal Government. The buildings and equipment have been deeded to the University without restriction, and the University is free to dispose of them by sale, gift, or demolition when they are no longer needed or usable.

15. Mr. L. A. Boice, Recorder, *Emeritus*, a reed parlor organ to the School of Music.

16. The late Miss Mary Abigail Mann, formerly Serial Cataloger in the University Library, a bequest of a collection of books and magazines for the University Library.

17. Professor Harry J. Fuller of the Department of Botany (now on leave for war service with the Rubber Reserve Company, a Federal agency) anthropological specimens to the Museum of Natural History.

18. Mrs. Henry C. Pillsbury, Nashville, Tennessee, a gold-plated sword which belonged to her father, the late General William T. Wood, Professor of Military Science and Tactics, 1880 to 1883.

#### *Grants for Research*

1. Josiah Macy, Jr., Foundation, \$7,000 for research on the process of schizophrenia and allied conditions, and \$4,000 for research on the physiology of fatigue, both projects in the College of Medicine, for the periods ending September 30 and December 31, 1945, respectively.

2. National Committee for Mental Hygiene, New York City (funds supplied by the Scottish Rite Masons), \$1,000 for research on schizophrenia by Dr. Frederic Gibbs. The funds are being transferred from Harvard University where Doctor Gibbs was previously carrying on this work.

3. Monsanto Chemical Company, St. Louis, Missouri, \$4,500 for continuation of research on insecticides in the Agricultural Experiment Station. This is a research project sponsored jointly by the Experiment Station and the State Natural History Survey Division, and this grant was made for a fellowship for one year beginning July 15, 1943; also, \$5,000 for the continuation of this research fellowship for the year beginning July 15, 1944.

4. General Education Board of the Rockefeller Foundation, through Purdue University, \$6,000 for "Farm Work Simplification Studies" by the Department of Agricultural Economics.

5. Upjohn Company, Kalamazoo, Michigan, \$5,000 for research on the production of antibacterial substances, other than penicillin, with special reference to the biological aspects of the fungi concerned, by the Agricultural Experiment Station, for a period of one year from December 1, 1943; Upjohn Company, Kalamazoo, Michigan; Abbott Laboratories, North Chicago, Illinois; Eli Lilly and Company, Indianapolis, Indiana; and Parke Davis and Company, Detroit, Michigan, \$1,500 each for continuation of this research for one year from December 1, 1944.

6. Upjohn Company, Kalamazoo, Michigan; Parke Davis and Company, Detroit, Michigan; Eli Lilly and Company, Indianapolis, Indiana; and Abbott Laboratories, North Chicago, Illinois, \$6,000 for research work on antibiotics for the period August 1, 1944, to August 1, 1945. This is to supplement a grant of \$25,000 a year for three years from August 1, 1943, made by these companies.

7. Abbott Laboratories, North Chicago, Illinois, \$5,000 for a fellowship in Pharmacology, in support of research work under Professor Carl Pfeiffer, Head of the Department of Pharmacology.

8. State Department of Public Health, \$3,000 for the Tumor Clinic at the College of Medicine.

9. Armour and Company, Chicago, \$2,500 for continuation of research in the College of Medicine on treatment of pernicious anemia by liver extracts, for one year from November 1, 1944.

10. The Cutter Laboratories, Berkeley, California, \$1,980 in support of a clinical investigation of the use of amino acids in parenteral administration to surgical patients, under the direction of Professor W. H. Cole of the Department of Surgery, for one year from July 1, 1944; and \$1,850 for the continuation of this research for nine months, or until March 31, 1946.

11. Armour Research Laboratories, \$1,200 for research on protein solutions under the direction of Professor W. H. Welker of the Department of Physiological Chemistry in the College of Medicine.

12. Illinois Farm Supply Company, Chicago, \$1,500 for research in swine, poultry, and dairy husbandry, for one year from October 1, 1945.

13. Lederle Laboratories, Incorporated, Pearl River, New York, \$1,200 for a study by the College of Pharmacy, under the direction of Professor G. L. Webster, of the synthesis of the amidines of the type of holocaine which may possess vaso-constrictor and local anesthetic activity.

14. Canadian Radium and Uranium Corporation, Chicago, \$1,000 for research in the Department of Dermatology on the use of Alphanon radon ointment.

15. Middle West Soil Improvement Committee, Chicago, \$400 for fertilizer investigations by the Department of Agronomy; Producers' Crop Improvement Association, Piper City, Illinois, \$750, and Messrs. H. L. Stiegelmeier, Normal, Illinois, \$300, and L. K. Wyckoff, Valparaiso, Indiana, \$300, for corn breeding work by the Department of Agronomy.

16. Grants for research on allergy antigens (research program of Dr. B. Z. Rappaport, Assistant Professor of Medicine, College of Medicine, and Dr. William H. Welker, Head of the Department of Biological Chemistry, College of Medicine) from: Messrs. Philip S. Bloom, \$1,000, K. H. Kraft, \$500, Alfred D. Hornstein, \$500, William Semco of the Mayo-Reese Company, \$250, Byron C. Sharpe, \$100, and Mrs. B. M. Sharpe, \$100, all in Chicago.

17. The December, 1944, graduating class of the College of Medicine, \$150 to be invested in United States War Savings Bonds and on maturity of the bonds the money to be used in maintaining student and faculty entertainment and recreation facilities in the Chicago Illini Union. The University has purchased "E" U. S. War Bonds with this money, the maturity value of which will be \$200.

18. The Burdick Corporation, Milton, Wisconsin, \$500, Onarga Military School, Onarga, Illinois, \$25, for research on physical fitness by Professor T. K. Cureton of the Department of Physical Education for Men.

This report was received for record.

#### EXEMPTION FROM FEES FOR UNIVERSITY STAFF MEMBERS AND EMPLOYEES

At this point, Mr. Nickell, for the special committee appointed May 12 to consider the exemption of staff members and employees from the payment of fees (Minutes, May 12, 1945, page 456), reported a recommendation that such employees be exempted as recommended, provided that nonacademic employees shall secure the approval of the head of their department or division.

On motion of Mr. Nickell, this recommendation was adopted.

#### EXECUTIVE SESSION

The Board, in executive session, continued its consideration of matters presented by the President of the University.

#### RETIREMENT OF DEAN MARIA LEONARD

(11) Miss Maria Leonard, Dean of Women, has requested that she be retired from active service on September 1, 1945, under the provision in the law creating the University Retirement System of Illinois which permits retirement "on or after the attainment of age sixty-five (65) in exceptional cases and for substantial cause at the request of the Employee and upon certification of the Employer." Dean Leonard has reached the age of 65 and will have been in the service of the University for twenty-two years.

I recommend that Dean Leonard be retired September 1, 1945, with the rank of Dean of Women, *Emerita*.

On motion of Mr. Fornof, seconded by Mrs. Grigsby, this retirement was approved as recommended, and the Secretary of the Board was directed to send to Dean Leonard an expression of the appreciation of the Board for her long and valued service.

**APPOINTMENT OF MRS. LEAH FULLENWIDER TRELEASE  
AS ACTING DEAN OF WOMEN**

(12) To succeed Miss Maria Leonard, Dean of Women, who is retiring at the end of the current academic year, Dr. Fred H. Turner, Dean of Students, recommends the appointment of Mrs. Leah Fullenwider Trelease as Acting Dean of Women and Assistant Professor of English for one year from September 1, 1945, at a salary of \$5,000. Under this appointment Mrs. Trelease will teach one two-hour course in the Department of English and her salary will be divided proportionately between the Office of the Dean of Students and the Department of English. This appointment is concurred in by Dean M. T. McClure of the College of Liberal Arts and Sciences and Professor Henning Larsen, Acting Head of the Department of English, with the understanding that if at the end of the year Mrs. Trelease desires to be relieved or is not continued in the Office of the Dean of Women, she will be appointed Assistant Professor of English at \$3,300 and Counselor in the Personnel Bureau at \$350 a year, the position originally recommended for her in the budget for the academic year 1945-1946.

I recommend approval.

On motion of Mr. McLaughlin, this appointment was made under the conditions recommended.

**APPROPRIATION TO LIBRARY FOR PURCHASE OF RARE BOOKS**

(13) At the meeting of the Board of Trustees on October 24, 1944 (Minutes, page 271), I presented a recommendation from the Director of the Library that an appropriation of \$75,000 be made for the purchase of rare and unusual books for the Library. The Library had an opportunity to purchase some unusual items of early English works at low prices. In view of other possible demands on the University's General Reserve which could not be predicted at that time, I recommended that an assignment of only \$25,000 be made and that action on the balance be deferred for later consideration.

The Library still has an opportunity to purchase some of these books at low prices, but they will not be available very long, nor is it likely that they can be purchased later on. I therefore recommend that an appropriation of \$40,000 be made from the General Reserve Fund for the purchase of rare books and that the Director of the Library be authorized to make this selection from items still available and within the appropriation; this appropriation to be available until January 1, 1946.

On motion of Dr. Meyer, this appropriation was made as recommended, by the following vote: Aye, Mr. Davis, Mr. Fornof, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

**PATENTABLE DISCOVERIES**

(14) The following recommendations from the Faculty Committee on Patents relating to patentable discoveries by members of the University staff.

1. A ceramic paint which may be applied to metals subjected to high temperatures for the purpose of suppressing glow, by D. G. Bennett, Special Research Professor, and C. M. Andrews, Special Research Associate Professor in the Department of Ceramic Engineering. To some degree this paint may also suppress emission of heat and may retard corrosion. The primary use of this paint is for military purposes, but it may also have definite commercial uses. The Committee recommends that the Board of Trustees authorize application for a patent if in the judgment of patent counsel the discovery has sufficient novelty to be patentable.

2. A new method for preparing acetonitrile, by Sherlock Swann, Research Professor of Chemical Engineering, and R. S. Hammer, a graduate student in Chemistry. In the judgment of experts in the Department of Chemistry the de-



mand for acetonitrile is not sufficiently large to make the process for its production of great commercial value. The Committee, therefore, recommends that the Board of Trustees release the discovery to the discoverers.

3. Professor H. F. Johnstone of the Department of Chemistry reports two inventions, one by four members of the staff and the other by him, resulting from highly confidential research work they are doing under his supervision on a military problem under a contract between the University of Illinois and the United States Government. Under the terms of this contract and the provisions of the espionage act the nature of these discoveries may not be disclosed publicly. The contract gives the University the right to apply for patents on these discoveries but the University must also give the Government the free use of such patents. In the judgment of Professor Johnstone, the value of these inventions is limited to military uses and their commercial possibilities are so slight that the University would not be justified in applying for patents. He, therefore, recommends that the Board of Trustees take formal action not to apply for patents and that applications be made by the Government under terms of the contract covering the research project. This will be sufficient to protect the public interest.

I concur in these recommendations.

On motion of Mr. Davis, the recommendations with respect to items 1 and 2 were approved, and item 3 was referred to the Committee on Patents for consideration and recommendation.

#### PROCEDURES ON PATENTABLE DISCOVERIES

(15) The Faculty Committee on Patents has suggested certain administrative procedures in dealing with patentable discoveries made by members of the faculty. The Committee also has raised questions which involve considerations of policy and should be determined by the Board. I am, therefore, presenting these matters to the Board and have also presented them to the Board Committee on Patents in advance:

1. The Faculty Committee proposes that the following procedure be authorized by the Board of Trustees in dealing with discoveries as they are reported:

(a) The Committee or the discoverer may consult with the University's patent attorneys immediately without prior authorization by the Board of Trustees.

(b) If, in the judgment of counsel, the discovery should be patented, an application for patent shall be filed immediately and the same reported to the Board at the next opportunity.

(c) If, in the judgment of the Committee, the University would not be justified in expending funds for a patent application, a recommendation will be made to the Board for the release of the discovery to the discoverer.

The primary purpose of this proposal (subsections *a* and *b*) is to save time, which may be a most important consideration in some instances. Under the present procedure a month or more may elapse by the time a discovery is reported and a patent application is authorized. Under the procedure proposed, a patent application could always be withdrawn before it had progressed very far, if the Board did not approve of applying for a patent.

2. In most instances it is very difficult for the Faculty Committee on Patents to determine on the evidence presented whether a discovery has commercial value. In fact, the discoverer is often unable to answer that question. A patent must be exploited if a financial gain is to be realized from the discovery. It must be sold (the word "sold" is used both literally and figuratively) to persons or organizations capable of using it. Is the primary purpose of a patent application protection of the public interest, and is financial gain of secondary importance, or are both to be considered of equal importance? If the University desires to profit financially from its patents, there is a defect in the present method of handling such matters. The Board has indicated that it has in mind the general policy of assigning to the University of Illinois Foundation those patents suitable for commercial exploitation. If patents are to be exploited for financial gain it is necessary that the Foundation have on its staff an executive agent qualified to do this. He must be familiar with commercial practices respecting patents and must have the necessary office facilities for conducting

correspondence and investigations incidental to the granting of licenses. The new manager to be appointed by the Foundation may be able to handle such matters.

On motion of Mr. Davis, these proposals were referred to the Committee on Patents to recommend a policy.

#### **POLICY AND RULES GOVERNING NONACADEMIC STAFF**

(16) For a number of months a special administrative committee has been working on a new statement of policy and rules relating to compensation and working conditions of nonacademic employees. The committee has consisted of Director of Nonacademic Personnel Donald E. Dickason, Director of Physical Plant C. S. Havens, Professor Russell N. Sullivan (former chairman of the University Civil Service Committee, and legal adviser in civil service matters), Bursar C. A. Webber (formerly secretary of the Civil Service Committee), and Comptroller Lloyd Morey, Chairman.

The committee secured suggestions from numerous sources, including a draft of suggested policies relating to labor groups submitted by a committee of the Twin City Federation of Labor. The first draft of the proposed policy was submitted to representatives of all organized groups to which various University employees are known to belong, and to representatives of all other nonacademic employees. The proposals have also been reviewed with administrative officers and department heads and with the State Director of Labor, Robert L. Gordon.

The committee has submitted its final draft of the proposed policy and rules, which meets as fully as possible the comments and criticisms received from all sources to the fullest extent that the committee finds it possible to recommend. This draft has been reviewed in detail by the Board Committee on Civil Service and Employees which will be prepared to advise the Board concerning it.

I recommend that the policy and rules as submitted be adopted, effective July 1, 1945, and that the following provisions now contained in the Statutes and Regulations of the University which are modified by this statement as indicated therein be repealed:

(1) University Statutes: Sec. 27 (e) portion dealing with civil service and clerical staff; Sec. 27 (g) as to "clerks and other employees"; Sec. 32; Sec. 33.

(2) Leaves of Absence for Disability of Nonacademic Staff, adopted February 24, 1944 (Minutes, pages 877-878).

The Comptroller and the Director of Nonacademic Employees commented on this matter.

On motion of Mr. Davis, the policy and rules were adopted as printed on pages 584-598, and the conflicting provisions were repealed as recommended.

#### **PURCHASE OF ADDITIONAL PROPERTY IN URBANA**

(17) Following previous actions of the Board authorizing the purchase of properties adjoining the campus for the location of buildings included in the building program, the following additional recommendations are submitted by the Director of the Physical Plant and the Comptroller:

1. Purchase of six additional properties fronting on South Mathews Avenue from Green Street north, to complete the site for the Mechanical Engineering Building.....\$95 500  
Less funds included for this site in building program.. 58 000  
*Net additional funds needed*.....\$37 500
2. Purchase of Clark property for veterans' housing project adjacent to the Fay property recently purchased..... 25 000  
*Total appropriation requested*.....\$62 500

I concur in these recommendations and request an appropriation of this amount from the General Reserve; this appropriation to be available until January 1, 1946.

On May 12, 1945 (Minutes, page 459), the Board of Trustees approved recommendations for the development of the Home Research Center for research in small homes, including acquisition of necessary land. Dean Newcomb

and Professor Scheick have now recommended that the properties adjacent to University property in the area in which it is proposed to build the center, located on the south side of Armory Avenue and between First Street and the Illinois Central, be acquired as soon as possible.

As a first step in this program, I recommend the purchase of the following properties in C. S. Dale's subdivision on the south side of Armory Avenue:

Lot 3 (d) 55 W. Armory.....	\$ 6 500
Lot 2 (e) 57 W. Armory.....	7 000
Lot 1 (f) 59 W. Armory.....	7 000
<i>Total</i> .....	<u>\$20 500</u>

I recommend further that an appropriation of \$50,000 be made from the General Reserve Fund, \$20,500 to be allocated for the purchase of these properties and the balance set aside for a reserve for the biennium of 1945-1947 for use either to purchase other properties or to develop the physical services such as drainage, drives, and other improvements required for construction of the first technical research homes.

On motion of Mr. McKelvey, these purchases were authorized and the appropriations made as recommended, by the following vote: Aye, Mr. Davis, Mr. Forno, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

#### ARCHITECTURAL AND ENGINEERING SERVICES FOR BUILDINGS

(18) Pursuant to the authorization of the Board of Trustees at its meeting on May 12, 1945 (Minutes, pages 460-461), the Director of the Physical Plant Department has negotiated with architectural and engineering firms for their services in designing and the preparation of complete plans for buildings and other improvements in the University's building program for the biennium 1945-1947. He submits the following report, explaining the basis on which the firms have been selected and making specific recommendations for the employment of nine firms on fourteen of the projects. The terms of employment are indicated in each case.

<i>Firm</i>	<i>Buildings</i>	<i>Project Costs</i>	<i>Base Fee (%)</i>	<i>Credit for Previous Work (%)</i>	<i>Net Fee (%)</i>
Childs and Smith . . .	Veterinary Building	\$750 000	6	1/3	5 2/3
Graham, Anderson, Probst, and White . .	Electrical Engineering Building	875 000	6	..	6
	Chemical Engineering Building	580 000	6	..	6
	Chemistry Laboratory	996 000	6	..	6
	Building modernization	143 000	6	..	6
Holabird and Root . .	Health and Physical Education Building	2 000 000	6	1/2	5 1/2
	Hospital additions	2 000 000	7	1	6
Fugard, Burt, and Wilkinson . . . . .	Mechanical Engi- neering Building	1 102 000	6	..	6
Perry, Shaw, and Hepburn . . . . .	Fine Arts Building	740 000	7	0.7	6.3
Skidmore, Owings, and Merrill . . . . .	Apartment buildings	900 000	6	1/2	5 1/2
Shaw, Naess, and Murphy . . . . .	Women's Residence Hall	600 000	6	..	6
	Animal Husbandry Laboratory	435 000	6	..	6
	Dairy Husbandry Laboratory	275 000	6	..	6
Sargent and Lundy (Engineers) . . . . .	Power Plant and Dis- tribution System	1 871 000	7	..	7

All of the above are Chicago firms except Perry, Shaw, and Hepburn, whose office is in Boston, Massachusetts.

In the few cases where 7% is indicated as the base fee, the higher rate is justified either by the increased complication of a particular type of building, by the eminence of the firm, or by a combination of both situations.

Holabird and Root have submitted alternate proposals for the two projects assigned to them of fixed fees, plus salaries, plus overhead, with a guaranteed total cost *not to exceed* the percentages listed in the schedule above. As the University obviously has an opportunity to gain under such an arrangement, we would recommend the acceptance of this alternate.

I concur in the recommendations.

The bill for an act making appropriations for a State-wide system of public works projects includes the following provision:

"Sec. 14. No contract shall be entered into or obligation incurred for any expenditure from any appropriation herein made until after the purpose and amount of such expenditure has been approved in writing by the Governor."

It will be necessary to determine the procedure the Governor will follow in discharging his responsibilities under this provision and the information he will require before approving expenditures from these appropriations. The Director of the Physical Plant Department recommends that as soon as these appropriations are available:

1. The Governor be requested to release to the University in full the funds for the projects listed in the report from the Physical Plant Department submitted herewith.

2. The Governor be requested to approve contracts with the architectural and engineering firms for their services as recommended in this report.

On motion of Dr. Meyer, these recommendations were approved and adopted, subject to the approval of Governor Green.

#### **DEPOSIT OF FEDERAL FUNDS IN THE STATE TREASURY**

(19) On January 20, 1945 (Minutes, page 330), the Board of Trustees authorized the introduction of legislation which would make it possible for the State Treasurer to receive certain federal funds, heretofore deposited in the general fund of the state and made subject to appropriation by the General Assembly, as trust funds and to disburse them on the order of the University without appropriation. Such a bill was drafted by the Legal Counsel, and the Comptroller secured its approval by the various state offices concerned. The bill has been passed by the General Assembly and was approved by the Governor on June 15, 1945, effective July 1, 1945.

At the time the bill for operating appropriations to the University for the coming biennium was passed, this bill had not been approved. Consequently, the section providing for appropriation of these funds was included in the appropriation bill as in past years. Since such a section is no longer needed, the Governor in acting on the appropriation bill vetoed that section. This action does not affect the availability of these funds to the University since under the new act they will be made available from now on to the University without the necessity of appropriation.

This report was received for record.

#### **ADMISSION OF NONRESIDENT WOMEN STUDENTS**

(20) The increase in the enrollment of women students next fall as indicated by the number of applications for permits to enter the University and requests for information about housing facilities has created a serious situation. Housing facilities for women students available for next year will be considerably less than were available during 1944-1945 because many of the fraternity houses which housed women last year will not be available for their use. The situation is aggravated by the policy of other state universities, particularly in this area, in restricting the enrollment of women students, thus diverting them to those institutions such as the University of Illinois which so far has no such policy.

The officers of the University concerned with this matter have recommended that the Board approve the following policy:

"Because of a housing shortage for women, it is recommended that non-state women who have never previously attended the University shall not be admitted as undergraduates at Urbana for the first semester of the academic year 1945-1946, unless permits to enter have been issued for them by the Registrar's Office prior to July 1, 1945, or unless at least one of their parents is an alumnus of the University."

Unless such a policy is adopted, it will be impossible for many women students who are residents of Illinois to find housing accommodations in Champaign-Urbana. Nonresidents usually make arrangements for admission to the University and secure housing accommodations well in advance of the opening of an academic year; this is especially true this year when they find other institutions are closing their doors to them.

I concur in this recommendation but would add a further provision: "or unless such applicants have been awarded scholarships or fellowships by recognized agencies to aid them in securing a higher education."

On motion of Mr. Davis, this matter was referred to the Executive Committee in conference with President Willard with power to act. It was the opinion of the Board that the way should be open for the admission of superior students from other states and countries.

**APPOINTMENT OF PROFESSOR HAROLD A. LARRABEE AS  
PROFESSOR AND HEAD OF THE DEPARTMENT  
OF PHILOSOPHY**

(21) The Dean of the College of Liberal Arts and Sciences recommends the appointment of Dr. Harold A. Larrabee, now Professor of Philosophy at Union College, as Professor and Head of the Department of Philosophy at a salary of \$6,500 a year. I request authority to make this appointment, if Doctor Larrabee indicates a willingness to accept, effective September 1, 1945, or at a later date if he can not come to the University at the beginning of the next academic year.

On motion of Dr. Meyer, this appointment was authorized.

**SALARY OF DEAN R. B. ALLEN**

(22) Dr. R. B. Allen, Executive Dean of the Chicago Colleges, has received an attractive offer from another institution. I think it is important to keep Dean Allen on our staff, and I recommend that his salary be made \$15,000 a year, and that he be allowed an expense fund of \$1,500 a year, effective September 1, 1945.

On motion of Mr. Williamson, these recommendations were adopted.

**PURCHASE OF GALLIVAN TRACT**

(23) On June 22, 1944 (Minutes, page 1005), the Board of Trustees authorized University officers to endeavor to acquire the so-called Gallivan tract located within the south campus of the University at a total cost not to exceed \$50,000. It also authorized the purchase of outstanding special assessment bonds offered on behalf of a group of bondholders. These and other similar bonds to the extent of \$36,637 par were purchased at 80 per cent of face value at a total cost of \$29,309.

On June 22, 1945, the property, consisting of 12 lots, was offered at public sale by the County Collector. Comptroller Morey, acting with the advice of J. G. Thomas, Champaign, special counsel for the University on this transaction, and C. S. Havens, Director of the Physical Plant, made bids amounting to a total of \$46,800. The property will be subject to four years' taxes before it can be placed on the exempt list: two years which are now a lien and two additional years as a redemption period. These taxes will amount to approximately \$3,000. Costs assessable to the sale under the law are estimated at \$2,436. The University will receive for the bonds which it has purchased the sum of \$30,709, so that the net cost of the property is estimated at \$48,400.

On motion of Mr. Nickell, the action of the Comptroller in this matter was approved and confirmed.

### DISCONTINUANCE OF TWO-YEAR CURRICULUM IN SCHOOL OF JOURNALISM

(24) On June 19, 1943, the Board of Trustees approved a recommendation for the establishment of a two-year emergency program in Journalism for freshman and sophomore students. The School of Journalism is a senior division, and two years of college work are required for admission to the curricula in Journalism leading to degrees. The emergency program was set up to train personnel to fill war-time shortages.

In the judgment of the Director of the School of Journalism and his faculty, the emergency no longer exists and they recommend that the program be discontinued. I concur.

On motion of Mr. Fornof, this curriculum was discontinued as recommended.

### PURCHASES RECOMMENDED

(25) The Purchasing Agent has proposed and the Comptroller recommends the following purchases. Unless otherwise specified the purchase in each case is recommended on the basis of lowest bid, ceiling price, or because the item is noncompetitive. I concur in the recommendations.

1. Motor exchange for 17 Ford cars used by the Agricultural Experiment Station, for the Physical Plant Department, from Dana Hudelson, Champaign, at a cost of \$1,317.84.

2. Wind tunnel drive equipment, consisting of a 50 h.p. motor and 40 kw. motor generator set with necessary controls, for the Department of Aeronautical Engineering, from the General Electric Company, Chicago, at a cost of \$2,700.00 f.o.b. factory, freight allowed.

On motion of Mr. McLaughlin, these purchases were authorized as recommended.

### CONTRACTS EXECUTED BY THE COMPTROLLER MAY 12 TO JUNE 22, 1945

(26) The Comptroller's report of contracts.

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be received by the University</i>	<i>Date</i>
United States Engineer Office	Restricted contract	\$ 2 000	March 31, 1945
Navy Department, Bureau of Aeronautics	Make and deliver five body temperature indicating suits	6 000	October 4, 1944
United States War Department, Chemical Warfare Service	Secret contract	18 000	March 1, 1945
Speedway Wrecking Company	Wrecking property at 1749-53 W. Polk St.	375	April 2, 1945
The Association of American Railroads	Investigation of railroad roadbed stabilization	2 500	May 18, 1945
Howard R. Will	Concert by Rudolph Ganz, October 25, 1945	250	April 26, 1945
General Mills, Incorporated	Study of protein value in adult human nutrition and in rodent nutrition	21 000	May 3, 1945

<i>With Whom</i>	<i>Purpose</i>	<i>Amount to be paid by the University</i>	<i>Date</i>
E. N. DeAtley	Fire escape for Sanitary Engineering Laboratory	\$ 550	May 22, 1945
E. N. DeAtley	Scene storage room in Lincoln Hall	1 197	May 22, 1945
Earl Taynor	Instruction for not more than twenty students in dual control flight	Hourly rates	June 7, 1945
King and Petry	Platform and canopy on east side of Dairy Manufactures Building	1 765	May 3, 1945
Graham, Anderson, Probst, and White	Electrical and mechanical engineering service for Men's Old Gymnasium and Gymnasium Annex rehabilitation	4 200	April 25, 1945

On motion of Dr. Meyer, the action of the Comptroller and the Secretary of the Board in executing these contracts was approved and confirmed.

**REAPPROPRIATION OF BALANCES**

(27) The following unexpended balances in appropriations made by the Board of Trustees from general University funds for services and projects not completed as of June 30, 1945, will lapse as of that date unless reappropriated. The amount represented by them is in the University Income Fund. The Comptroller requests and I recommend the reappropriation of these balances:

Chicago branch study.....	\$ 1 000
Surplus equipment working fund.....	24 978
University Council on Teacher Education.....	660
University history.....	800
Microscopes—Chicago.....	2 143
Betatron research.....	16 563
Illinois Studies.....	7 536
Special graduate research.....	7 684
Graduate research—colloid chemistry.....	1 190
Commerce—special equipment.....	5 169
Summer Semester.....	10 127
Small Homes Council.....	2 124
Acoustical treatment.....	5 000
Administration Building alterations.....	3 600
Aeronautical Engineering Laboratory remodeling.....	6 188
Airport hangar purchase.....	99 700
Architectural services for future buildings.....	39 500
Armory ventilation.....	1 900
Remodeling Child Counseling Center—106 S. Goodwin.....	2 200
Campus walks.....	5 000
Dean of Men's Office remodeling.....	206
Fire resisting storage room—Lincoln Hall.....	1 375
Home Economics kitchen remodeling.....	2 200
Land—Urbana.....	11 538
Minor improvements—Urbana.....	7 980
Natural History Building remodeling.....	4 400
Observation gallery—University High School.....	1 200
Physical Plant Service Building remodeling.....	3 054
Physics Laboratory remodeling.....	900
Vivarium Building improvements.....	1 330
Medical exhibit, Museum of Science and Industry.....	12 900
Gallivan Tract.....	3 000
Smith-Hughes practice teaching salaries.....	350
Library rest room.....	682
<i>Total</i> .....	<u>\$294 177</u>

On motion of Dr. Meyer, these balances were reappropriated as recommended, by the following vote: Aye, Mr. Davis, Mr. Fornof, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Dr. Meyer, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Green, Dr. Luken.

**INDIRECT COSTS ON RESEARCH CONTRACTS**

(28) On January 24, 1942 (Minutes, pages 759-761), the Board approved a revised set of rules concerning patents resulting from research contracts. The rules also included certain provisions for financial arrangements in these contracts. These arrangements governing indirect costs (overhead), cost of retirement benefits, and workmen's compensation, were based on a classification of contracts made primarily in relation to patents. Experience has indicated that a different classification of contracts is needed for purposes of financial arrangements. It also indicates that more adequate provision for the recovery of indirect costs is needed in many of these contracts, while at the same time giving full recognition to the research and scientific values involved therein.

The Comptroller has given extended study to this problem for over a year and has secured the advice of the Dean of the Graduate School, the Directors of the Agricultural and Engineering Experiment Stations, the Executive Dean

of the Chicago Divisions, and other University officers. He has also discussed the matter with numerous agencies with which the University has research contracts. He now recommends that the financial provisions included in the rules of January 24, 1942, be replaced by a new statement of principles governing financial arrangements for indirect costs on research contracts.

I submit the statement for consideration and suggest that it be referred to the Board Committee on Patents for study and recommendation.

This matter was referred to the Committee on Patents for consideration and recommendation.

#### **STATUS OF DEAN BENNER**

(29) A statement with respect to the request of Dean Thomas E. Benner for a hearing before the Board.

President Livingston read several letters he had received on this matter.

On motion of Mr. Nickell, it was voted unanimously to grant Dean Benner a hearing at a closed meeting of the Board, and the Executive Committee was authorized to secure special counsel for the Board for this hearing.

#### **LABORATORY SCHOOLS BUILDING**

President Livingston presented petitions from representatives of 121 communities in Illinois with respect to the Laboratory School project in the College of Education.

On motion of Mr. Davis, the Secretary was directed to acknowledge the receipt of these petitions.

#### **INCREASE OF BID FOR HANGAR**

Mr. Livingston reported that, on advice from Professor Doland that the bid for a hangar for the University Airport, the purchase of which was authorized for \$20,000 on May 12, 1945 (Minutes, page 461), would have to be increased to secure the structure, the Executive Committee had authorized an increase of \$5,300, and that the increased bid of \$25,300 had been accepted on the ground that the University is a public institution.

On motion of Mr. Williamson, the action of the Executive Committee in authorizing this increase was approved and confirmed.

#### **DATE OF DEDICATION OF AIRPORT**

On motion of Mr. McLaughlin, the dedication of the Airport was scheduled for the day before the Annual Homecoming in October, that is, on Friday, October 26, 1945, and the Executive Committee was authorized to make all necessary arrangements.

#### **REQUEST FOR EXTENSION OF LEASE OF SKATING RINK**

(30) A request from Time, Incorporated, for an extension of the lease of the University Skating Rink.

On motion of Mr. Davis, the extension of this lease was denied, and the Company was requested to vacate at the expiration of the present lease.

#### **TEACHER-TRAINING CURRICULA**

(31) The University Senate recommends approval by the Board of Trustees of the following teacher-training curricula in the various colleges and schools. Some of these are new and others are revisions of existing teacher-training curricula. They are the result of eighteen months of work by the University's Council on Teacher Education, which was appointed by the President of the University August 6, 1943, to coordinate all teacher-training programs, and by the Senate Committee on Educational Policy:



**SUMMARY OF TEACHER-TRAINING CURRICULA**  
(For a complete tabulation of the requirements  
in these curricula, see pages 539-583)

Vocational Agriculture  
Art Education  
Preparatory to the Teaching of Biology  
Preparatory to the Teaching of Chemistry  
Preparatory to Commercial Teaching  
Preparatory to the Teaching of English and Speech  
Preparatory to the Teaching of Geography  
Vocational Home Economics Education  
Curricula Recommended for Prospective Secondary School Teachers of Foreign Languages: Latin, French, German, and Spanish  
Preparatory to the Teaching of Mathematics  
Preparatory to the Teaching of Mathematics and the Physical Sciences  
Music Education  
Physical Education for Men  
Physical Education for Women  
Preparatory to the Teaching of Physics  
Preparatory to Teaching Social Studies

There is also presented a plan for the administration and supervision of the teacher-training curricula which has been approved by the Senate.

I concur in the recommendations of the Senate.

The complete recommendations from the University Senate for each of these curricula are hereby given to the Secretary of the Board for record. Copies of Senate recommendations were sent to members of the Board of Trustees in advance of this meeting.

On motion of Mr. Davis, these curricula were approved as recommended, subject to the concurrence of Dr. Stoddard.<sup>1</sup>

**NEW CURRICULUM IN LIBERAL ARTS AND SCIENCES**

(32) The Survey Report on the University of Illinois made in 1943 by a Commission of the American Council on Education includes a series of recommendations which the Board of Trustees has accepted and has directed the administration of the University to follow. One of these recommendations is:

"3. The Commission recommends that the College of Liberal Arts and Sciences:

- a. Define clearly what the purposes of its educational program are.
- b. Adapt its curricula better to the needs of that group of students who drop out of the college before securing any degree.
- c. Strengthen the General Division by removing its present handicaps in requirements.
- d. Make the General Division an educational service unit for students in the several professional schools enrolling freshmen.
- e. Set up curricula organized on the basis of the needs of the students as individuals and as members of a significantly changing environment."

Pursuant to the above recommendation, in April, 1943, the Dean of the College of Liberal Arts and Sciences appointed a "College Committee on Future Plans" to make a thorough examination of the entire educational program of the College of Liberal Arts and Sciences and to prepare recommendations for action by the faculty.

This Committee made a preliminary report to the College Faculty in August, 1943, indicating in general the objectives the College seeks to attain, the elements of strength and weakness in the present program, and the direction future work should take. Subcommittees were appointed to consider: the programs of the Division of General Studies, the counseling of students, and improve-

<sup>1</sup> Dr. Stoddard notified the President of the University on July 9, 1945, of his concurrence in these recommendations.

ments in examining techniques and methods of teaching. Members of the committees visited other colleges and universities to examine recent developments in liberal education. Reports from educational conferences and advisory groups were studied. In the spring of 1944 the Committee organized and held a state-wide conference on liberal education with speakers invited from institutions which had made significant departures from traditional practices. On June 1, 1944, the Committee on Future Plans sent to members of the faculty of the College of Liberal Arts and Sciences its proposals for future action as a basis for further discussion.

These proposals were considered in four meetings of the general faculty and a large number of smaller group meetings. Conferences were also held with members of the staff whose work is particularly concerned with high schools and high school teaching. Several of the recommendations of the Committee on Future Plans involve no further actions than those of the faculty of the College of Liberal Arts and Sciences. The major task of the Committee on Future Plans was the drafting of a revised liberal arts curriculum. This was submitted to and approved with minor changes by the College Faculty in March, 1945. It was then sent to the University Senate Committee on Educational Policy and finally to the Senate itself, which recommends the adoption of a new liberal arts curriculum to replace the present requirements for graduation in Liberal Arts and Sciences and in the Division of General Studies. This curriculum involves the following changes in the present requirements for the degrees of Bachelor of Arts or Bachelor of Science in the College of Liberal Arts and Sciences:

1. *Basic Knowledge.* Students who enter the Liberal Arts Curriculum as freshmen after September 1, 1946 (or who enter other schools after that date and subsequently transfer to the College) must, in addition to the present requirements in English, Hygiene, and Foreign Language, meet new requirements of three hours in History of the United States and six hours in Mathematics (Algebra, Plane Geometry). The new requirements may be satisfied by courses taken in high school.

2. *General Education.* The present "group requirements" shall be replaced by the requirement of a two-semester course or sequence of courses in each of the following areas, with a minimum of eight hours credit in each: (a) Humanities; (b) Biological Science; (c) Physical Science; (d) Social Science. This requirement shall be satisfied only by courses certified by the College Policy Committee as suitable for that purpose.

3. *Future of the Division of General Studies.* The Division of General Studies shall be continued as a distinct unit within the Liberal Arts and Sciences College offering a two-year program in General Education. This program shall be specifically designed to meet the needs (a) of students who do not expect to complete a four-year program and (b) of students who desire a preliminary orientation before entry into other divisions or colleges. Its courses shall also be open on the same basis as other Liberal Arts and Sciences courses to other students in the College, and in the other Schools and Colleges of the University, who desire to include them in their program of study. The junior-senior program of the Division of General Studies shall be discontinued for all students who enroll in this Division after September 1, 1946. It is understood that this action does not preclude the possibility of later action with respect to the Division's future, in the light of continuing studies of university organization.

4. *Associate in Arts Certificate.* Students in the Division of General Studies who satisfactorily complete the D.G.S. curriculum shall, upon application, be awarded the certificate of Associate in Arts.

For students in the Division of General Studies who are candidates for the Associate in Arts certificate, all college requirements except those in Rhetoric, Hygiene, Military, and Physical Education (which are required for all students in the University) shall be waived.

Students in the Liberal Arts and specialized curricula who have satisfactorily met the "Basic Knowledge" and "General Education" requirements of the Liberal Arts curriculum and the general university requirements in Rhetoric, Hygiene, Military, and Physical Education, and have satisfactorily completed 60 hours of academic work shall, upon application, be awarded the certificate of Associate in Arts.

On motion of Mr. Davis, this curriculum was approved, subject to the concurrence of Dr. Stoddard.<sup>1</sup>

### CURRICULUM IN LANDSCAPE OPERATION

(33) The University Senate recommends approval of the following new curriculum in Landscape Operation:

#### CURRICULUM IN LANDSCAPE OPERATION

(130 hours required for degree)

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
L.A. 30a—Elements of Land. Arch...	3	L.A. 30b—Elements of Land. Arch.	3
Art 21a—Freehand Drawing.....	2	Art 21b—Freehand Drawing.....	2
G.E.D. 7—Architectural		G.E.D. 8—Architectural	
Projections.....	2	Projections.....	2
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
L.A. 11—History of Land. Arch....	3	Botany 5—General Botany.....	3
Physical Education.....	1	Physical Education.....	1
Military Science (for Men).....	1	Military Science (for Men).....	1
		Hygiene.....	2
<i>Total</i> .....	<u>15</u>	<i>Total</i> .....	<u>17</u>

Second Year			
L.A. 31—Landscape Design.....	3	L.A. 32—Landscape Design.....	3
Arch. 75—Frame Construction.....	2	Arch. 76—Masonry Construction..	2
C.E. 17—Surveying.....	3	C.E. 18—Surveying.....	3
Speech 1—Principles of Effective		L.A. 74—Regional Planning.....	3
Speaking.....	3	Accy. 1b—Accounting Procedure..	3
Accy. 1a—Principles of Accountancy	3	Physical Education.....	1
Physical Education.....	1	Military Science (for Men).....	1
Military Science (for Men).....	1		
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>16</u>

Third Year			
L.A. 43—Landscape Construction..	3	L.A. 44—Landscape Construction..	3
L.A. 51—Trees and Shrubs.....	3	L.A. 52—Trees and Shrubs.....	3
Entom. 1a—Insects.....	3	Hort. 31—Garden Flowers.....	3
Rhet. 10—Business Letter Writing..	2	B.O.O. 7—Salesmanship.....	2
B.O.O. 10—Advertising.....	3	Electives (see note below).....	5
Electives (see note below).....	3		
<i>Total</i> .....	<u>17</u>	<i>Total</i> .....	<u>16</u>

Fourth Year			
*L.A. 37—Design.....	3	*L.A. 38—Design.....	3
L.A. 53—Planting Design.....	4	L.A. 54—Planting Design.....	4
L.A. 55—Care of Plants.....	2	L.A. 46—Office Practice.....	2
L.A. 71—City Planning.....	2	*L.A. 48—Adv. Construction.....	3
Electives (see note below).....	6	L.A. 72—City Planning.....	2
		Electives (see note below).....	2
<i>Total</i> .....	<u>17</u>	<i>Total</i> .....	<u>16</u>

Note: At least 8 hours of the electives must be in the field of Humanities or Social Sciences.

\* Indicates new courses.

On motion of Mr. Davis, this curriculum was approved, subject to the concurrence of Dr. Stoddard.<sup>2</sup>

<sup>1</sup> Dr. Stoddard requested on July 9, 1945, that further consideration be given to the requirements of this curriculum.

<sup>2</sup> Dr. Stoddard notified the President of the University on July 9, 1945, of his concurrence.

**EDUCATIONAL POLICIES RELATING TO THE ESTABLISHMENT OF A  
UNIT OF THE NAVAL RESERVE OFFICERS' TRAINING CORPS  
AT THE UNIVERSITY OF ILLINOIS**

(34) The University Senate submits the following statement of educational policies involved in the establishment of a unit of the Naval Reserve Officers' Training Corps at the University of Illinois.

The complete statement from the University Senate was previously sent to members of the Board of Trustees, and a copy is hereby given to the Secretary of the Board for record.

I concur in the recommendation of the Senate.

On motion of Mr. Davis, this program was approved in principle, subject to the concurrence of Dr. Stoddard.<sup>1</sup>

**REPORT OF THE SENATE COMMITTEE ON EDUCATIONAL POLICY ON THE  
ESTABLISHMENT OF AN NROTC UNIT AT THE UNIVERSITY**

1. The purpose of the "Expanded NROTC Program," according to the Bureau of Naval Personnel ("Plan for the Transition from the Navy V-12 Program to an Expanded NROTC Program," Navy V-12 Bulletin No. 288, February 15, 1945, page 1), is as follows:

"It has been the established policy of the Navy for many years that a naval officer should have a complete college education or its equivalent. This requirement was met, before the War, by the Naval Academy and the NROTC. It was maintained, as long as possible, in the early V-1 and V-7 Programs.

"Commissioning of officers with less than a complete college education has been permitted in the Navy V-12 Program only because there was no other way to meet the critical demands for large numbers of officers in the early period of the War. This period of rapid expansion of the officer strength of the Navy is now drawing to a close. It will therefore soon be possible to permit officer candidates once more to complete a full eight-term course in college before qualifying for a commission.

"The NROTC, established by Act of Congress in 1925 to supplement the Naval Academy in supplying officers to the Regular Navy, the Marine Corps, and the Naval Reserve, had proved its effectiveness before the present War. Although inadequate to meet the emergency needs for naval officers during the past four years, it has been kept intact, in conjunction with the Navy V-12 Program, in order that at the proper time it might be expanded to meet the continuing war-time needs and the post-war needs of the Navy. Such an expansion has now been authorized by the Congress."

2. The central question of educational policy is whether or not the University of Illinois should authorize a college or school to grant degrees to students who complete the "Expanded NROTC Program." In this revised program, the only strictly Naval courses prescribed are those in Naval Science and Tactics, which, for men just entering the program, total 38 hours in the eight terms. Other required work includes 10 hours of mathematics, 6 of English, 4 of history, 8 of physics, and 4 of engineering drawing and descriptive geometry. It is assumed that, in addition, there will be required hours in physical education. Trainees may thus select other courses in the field of their major interest. As a consequence, degrees might be granted by any one of several colleges, although, for the duration of the war, most of the degrees would be earned in the College of Engineering.

(a) It is an eight-semester program in contrast to the present war-time seven-semester program. ("Regulations for Administration and Training, Naval Reserve Officers' Training Corps, 1944," page 18).

(b) "V-12 students now in their second term (excepting pre-medical students) may, on 1 March 1945, begin studies in any major field in which courses are offered by the College or University in which they are enrolled; provided that the selection of a major field has the approval of the academic authorities and the commanding officer . . ." (Navy V-12 Bulletin No. 288, page 4).

(c) Specific requirements are set forth for the work to be taken by trainees in making the transition from the present program to the expanded program.

<sup>1</sup> Dr. Stoddard notified the President of the University on July 9, 1945, of his concurrence.

3. No question of policy regarding admission to the University will be involved since all trainees eligible for the expanded program will be high school graduates. This is in contrast to the recent war-time practice of selecting NROTC students from V-12 trainees who most successfully completed their first two terms. A few of these had entered the V-12 prior to high school graduation.

4. The present regulations stipulate that the head of the Department of Naval Science and Tactics shall be "the officer ordered as professor of naval science and tactics by the Chief of Naval Personnel. . . . He shall be designated as the professor of naval science and tactics. . . . He will have the academic standing which the institution accords the heads of its other major departments. He will be a member of the university, college, or school faculty, with all rights and privileges of a faculty member, will assume the same responsibilities and obligations as heads of other departments, and will be a member of the council of deans or equivalent body" ("Regulations for Administration and Training, Naval Reserve Officers' Training Corps," page 12). It is assumed that the Expanded Program will contain a similar specification.

The institutions which now have NROTC units follow:

Brown University	University of Colorado
College of the Holy Cross	University of Michigan
Duke University	University of Minnesota
Georgia School of Technology	University of New Mexico
Harvard University	University of North Carolina
Marquette University	University of Notre Dame
Northwestern University	University of Oklahoma
Rensselaer Polytechnic Institute	University of Pennsylvania
The Rice Institute	University of South Carolina
Tufts College	University of Texas
Tulane University of Louisiana	University of Virginia
University of California, Berkeley	University of Washington
University of California, Los Angeles	Yale University

In view of the information presented above, the Committee on Educational Policy recommends that the Senate approve the "Expanded NROTC Program" in principle. This action would be interpreted to mean that the Senate approves the establishment of a unit of the NROTC at the University of Illinois and the granting of degrees by the Colleges concerned, with some understanding that the Senate reserves the privilege of acting on the details of the program when they become available.

#### CHANGE IN REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF LAW APPLICABLE TO WAR VETERANS

(35) The University Senate recommends that veterans of World War II be admitted to the three-year curriculum in law after two years of college work instead of the usual requirement of three years, provided the applicant has had active service in the military or naval forces of the United States, or one of its allies, for a period of at least twelve months and that his scholastic average in prelegal work has been high. The changes proposed give recognition to the fact that experiences in the armed forces have certain values; that for some, these values can be measured concretely in terms of university credit; and that for others who can not translate their experience into actual credit, but who are intellectually mature, a substantial period of active military service has a value equivalent to college work which may be recognized in partial fulfillment of the requirements for admission to professional study. The requirements in detail are as follows:

Veterans of World War II will be admitted as candidates for law degrees:

1. To either the three- or the four-year law curriculum described above, on meeting their respective requirements for admission.

In satisfying the regular admission requirements for either curriculum, veterans may count credit acceptable to the University of Illinois, based on an evaluation of educational experience, general educational development, and correspondence work taken while in the Armed Forces, provided that the total credit offered for admission meets both the qualitative and quantitative requirements

stated respectively for admission to those curricula, and provided further that the applicant for admission has completed at least one year's work in residence in the University of Illinois or in a college approved by the University.

2. To the three-year law curriculum on satisfying the following requirements:

a. Active service since September 16, 1940, in the military or naval forces of the United States or one of its co-belligerents, for a period of at least twelve months and discharge or release therefrom under conditions other than dishonorable;

b. Attendance in residence for a period of two years, equal to at least four semesters, in a college of the University of Illinois or in a college or university of approved standing, and the completion in residence of one-half of the number of hours required for a bachelor's degree by a college of the University or a college approved by the University; and

c. Attainment of a weighted grade average in college work of at least 4.0; or attainment of a weighted grade average in college work of at least 3.5 and passing an examination approved by the faculty of the College of Law.

In meeting the requirements of (a) and (b) above, the period a veteran was assigned for a course of education or training under the Army Specialized Training Program or the Navy College Training Program or, as a cadet or midshipman, in one of the service academies may be counted in satisfaction of either the requirement for resident study in an approved college or university or the requirement of one year's active military or naval service, but not both.

On motion of Mr. Davis, these changes were approved as recommended, subject to the concurrence of Dr. Stoddard.<sup>1</sup>

#### CHANGES IN REQUIREMENTS FOR ADMISSION TO THE LIBRARY SCHOOL

(36) The University Senate recommends approval of the following requirements for admission to the Library School:

For admission to the Library School a bachelor's degree in arts or sciences from the University of Illinois or its equivalent is required. Applicants must give evidence of (1) superior scholastic ability, and (2) professional promise for librarianship.

1. In general, only those applicants will be admitted whose undergraduate work averages at least 3.5 or its equivalent as determined by the University for institutions using a different grading system, and whose performance is satisfactory on tests administered by the Student Personnel Bureau. In exceptional cases an applicant whose average approximates 3.5 may be admitted provided he demonstrates superior performance on appropriate Personnel Bureau tests.

2. Evidence of professional promise for librarianship will be secured from letters of reference and other sources. A personal interview with a representative of the school may be required.

On motion of Mr. Davis, these requirements were approved, subject to the concurrence of Dr. Stoddard.<sup>1</sup>

#### GENERAL UNIVERSITY ORGANIZATIONS

(37) The Provost has prepared a statement and a recommendation that the University adopt better machinery for dealing with (a) research programs in the areas that fall between the commonly-recognized subject-matter fields; (b) teaching programs that require a synthesis of the basic principles common to several related fields; and (c) professional and semi-professional programs more closely related to new kinds of life callings than to traditional methods of organizing knowledge along departmental lines.

Provost Griffith commented on this matter.

Action was deferred until the next meeting of the Board.

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<sup>1</sup> Dr. Stoddard notified the President of the University on July 9, 1945, of his concurrence.

**CONTRACT FOR PRINTING JOURNAL AND STUDIES**

(38) The Director of the University Press, the Purchasing Agent, and the Comptroller join in the following recommendation:

We have been obtaining the printing of the Journal of English and Germanic Philology and the Illinois Studies in Language and Literature from the George Banta Publishing Company, Menasha, Wisconsin, for about thirty years. We are at present operating under a contract entered into under date of September 18, 1940, which was approved by the Board of Trustees in December 1940. This contract provides that either party may terminate the contract by 90-days notice to the other party. We have received notice from the George Banta Publishing Company of their intention to terminate this agreement effective 90 days from May 31, 1945.

At the same time they have presented to us a new schedule of prices for this work which, if accepted, will result in approximately fifteen per cent increase over the old schedule. Total expenditures under the contract during the past year were \$4,413.96.

We recommend that their new schedule of prices be accepted and that a new contract be entered into for one year and an indeterminate period thereafter for the following reasons:

1. This Company specializes in this particular type of printing, and they have been supplying us with first-class service and high-grade printing for a great many years and they are thoroughly familiar with our requirements.

2. At the present time conditions are such in the printing industry that we do not feel that it would be advisable to attempt to change to another source through competitive bidding.

3. We have found by comparison and through competition in the past that the prices at which Banta has done this work are low.

On motion of Mr. Williamson, this contract was authorized as recommended.

**GRAND PIANO FOR GREGORY HALL AUDITORIUM**

(39) The Director of the Radio Station has requested an appropriation for the purchase of a grand piano for Gregory Hall Auditorium. This room is used continuously for broadcasting and is also used for many kinds of meetings. At present only an upright piano of rather poor quality is available.

Grand pianos are difficult to secure but several Steinway grand pianos are now available at Lyon & Healy, Chicago. The purchase of such a piano is recommended by Director Stiven.

The Committee on Nonrecurring Expenditures recommends an appropriation of \$1,600 or so much thereof as is necessary for the purchase of a grand piano for Gregory Hall, to be selected on personal inspection by the Music Director of the Radio Station.

On motion of Mr. Nickell, this purchase was authorized, and the appropriation was made, by the following vote: Aye, Mr. Davis, Mrs. Grigsby, Mr. Livingston, Mr. McKelvey, Mr. McLaughlin, Mr. Nickell, Mr. Williamson; no, none; absent, Mr. Forno, Mr. Green, Dr. Luken, Dr. Meyer.

**ASSIGNMENT OF PARR PATENTS TO THE UNIVERSITY**

The Secretary reported for record that he had received from the Urbana Coke Corporation an assignment of all its letters patent (covering the Parr process) to the Board of Trustees of the University of Illinois.

The Urbana Coke Corporation has no funds to meet the expense of keeping the Corporation alive, and is therefore about to terminate its corporate existence.

**DEGREES CONFERRED**

The Secretary presented also for record the following list of degrees conferred at Urbana, June 3, 1945, and in Chicago, June 16, 1945.

**Summary**

Degrees in the Graduate School, conferred at Urbana:

Doctor of Philosophy.....	30
Ceramic Engineer.....	1
Civil Engineer.....	1
Electrical Engineer.....	2
Master of Education.....	1
Master of Arts.....	38
Master of Science.....	53
<i>Total, Graduate School.....</i>	<i>126</i>

Degrees in Law, conferred at Urbana:

Bachelor of Science.....	2
Bachelor of Laws.....	4
<i>Total, Law.....</i>	<i>6</i>

Baccalaureate Degrees, conferred at Urbana:

Bachelor of Science, Library School.....	25
Bachelor of Arts, College of Liberal Arts and Sciences.....	152
Bachelor of Science, College of Liberal Arts and Sciences.....	62
Bachelor of Science, College of Commerce.....	26
Bachelor of Science, College of Engineering.....	85
Bachelor of Science, College of Agriculture.....	46
Bachelor of Science, College of Education.....	50
Bachelor of Science, College of Fine and Applied Arts.....	17
Bachelor of Fine Arts, College of Fine and Applied Arts.....	11
Bachelor of Music, College of Fine and Applied Arts.....	5
Bachelor of Science, School of Journalism.....	24
Bachelor of Science, School of Physical Education.....	11
Bachelor of Science, Division of Special Services for War Veterans..	1
<i>Total, Baccalaureate Degrees.....</i>	<i>515</i>

*Total, Degrees Conferred at Urbana.....647*

Degrees in Pharmacy, conferred in Chicago:

Bachelor of Science in Pharmacy.....	2
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Degrees in Medicine, conferred in Chicago:

Bachelor of Science in Medicine.....	1
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Degrees in the Graduate School, conferred in Chicago:

Master of Science.....	3
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*Total, Degrees Conferred in Chicago..... 6*

*Total, Urbana and Chicago.....653*

**Degrees Conferred June 3, 1945, at Urbana****GRADUATE SCHOOL****Degree of Doctor of Philosophy***In Agronomy*

WAYNE HENRY FREEMAN, B.S., Kansas State College, 1938; M.S., 1940

*In Animal Nutrition*

EDWIN PIERCE SINGSEN, B.S., Rhode Island State College, 1938; M.S., North Carolina State College, 1940

*In Botany*

GLENN RAY NOGGLE, A.B., Miami University, 1935; M.S., 1942



*In Chemistry*

- ALECK BORMAN, B.S., University of Toledo, 1941  
KUANG-HSU CHEN, B.S., National Tsing Hua University, 1933; M.S., 1943  
DAVID YARROW CURTIN, A.B., Swarthmore College, 1943  
ROBERT JOHN DEARBORN, A.B., Wabash College, 1941; M.S., 1942  
ALFRED CARL ECKERT, JR., B.S., Wheaton College, 1941  
DAVID BURREL GUTHRIE, A.B., Westminster College, 1941  
ROBERT ELLERY JONES, A.B., Cornell College, 1942; M.S., 1943  
EVERETT WILLIAM MAYNERT, B.S., Brown University, 1941  
JOHN SAWYERS MEEK, A.B., University of Wisconsin, 1941; M.S., 1944  
THOMAS DAVID PARKS, B.S., Wheaton College, 1942  
MILDRED CATHERINE REBSTOCK, A.B., North Central College, 1942; A.M., 1943  
ROBERT HAROLD REITSEMA, A.B., Calvin College, 1942  
GEORGE DEWEY SANDS, JR., B.S., College of William and Mary, 1939; M.S., University of Richmond, 1941  
PAUL VERGON SMITH, JR., A.B., Miami University, 1942; M.S., 1943

*In Engineering*

- CHENG CHUNG CHANG, B.S., St. Johns University, 1940; M.S., 1941  
HOWARD RAYMOND SWIFT, B.S., M.S., 1940, 1942  
MEHMET FUAT TIGRAK, B.S., M.S., 1942, 1943  
MEHMET ENSAR UYANIK, B.S., M.S., 1942, 1943  
CHU-KIA WANG, B.S., St. Johns University, 1938; M.S., University of Colorado, 1942

*In English*

- ALFRED HENRY DEUTSCH, A.B., St. Johns University, 1936; A.M., 1942  
JOHN WILSON LEWIS, A.B., A.M., 1931, 1935  
EARL LESTER OLIVER, B.Ed., Eastern Illinois State Teachers College, 1942; A.M., 1943

*In Entomology*

- HUNG FU CHU, B.S., National Tsing Hua University, 1935; M.S., 1943

*In French*

- RUBY ROXANE LEES, A.B., A.M., 1942, 1943

*In History*

- MAYME JOSEPHINE BUNCH, B.S., Southeastern Missouri State Teachers College, 1939; A.M., 1939

*In Mathematics*

- CORINNE ROSE HATTAN, B.S., Ottawa University, 1925; A.M., Kansas University, 1928

*In Political Science*

- LYNWOOD MATHIS HOLLAND, A.B., A.M., Emory University, 1932, 1933

**Professional Degrees***Degree of Ceramic Engineer*

- HARRY HELTMAN HOLSCHER, B.S., 1928; M.S., Ph.D., Ohio State University, 1929, 1931

*Degree of Civil Engineer*

- CARL WILLIAM MUHLENBRUCH, JR., B.S., 1937; M.S., Carnegie Institute of Technology, 1943

*Degree of Electrical Engineer*

- RANDON OGDEN FERGUSON, B.S., 1924  
HOWARD CREIGHTON ROBERTS, A.B., 1933

*Degree of Master of Education*

- MARY LYNDAL SWOFFORD, A.B., University of Oklahoma, 1922; B.S. (Lib.), 1930

**Degree of Master of Arts***In Chemistry*

CAMERON DAVID LEWIS, A.B., University of Buffalo, 1942

*In Classics*

MARY ARRILLA DEFFENBAUGH, B.Ed., Illinois State Normal University, 1940

*In Education*

GEORGE CURTIS BLACKER, A.B., 1930

GWENDOLYN NEVADA CHAMBLISS, A.B., Fisk University, 1928

MAURICE RAYMOND CLAPPER, B.Ed., Illinois State Normal University, 1938

PERRY VASHON COLLINS, A.B., Stowe Teachers College, 1940

SARAH MAE FREEMAN, B.S., Stowe Teachers College, 1945

MARIE LOUISE GIRHARD, A.B., 1942

FERN IRENE HENDERSON, B.Ed., Illinois State Normal University, 1940

L. HERBERT MENDENHALL, A.B., Iowa Wesleyan College, 1934

ANDREW MICHAEL MERCKER, A.B., Indiana State Teachers College, 1915

MELVIN BERNELL NEECE, A.B., Greenville College, 1938

HOWARD FREDERICK SAAK, B.Ed., Illinois State Normal University, 1927

MILDRED ETHEL SPANGLER, A.B., Greenville College, 1942

*In English*

JEANNETTE ELAINE CARLSON, A.B., 1944

ELIZABETH ANN CROZIER, B.Ed., Southern Illinois Normal University, 1939

REBECCA JEAN HENDERSON, B.S., Eastern Illinois State Teachers College, 1944

EFFIE NEVA HUNT, A.B., MacMurray College, 1944

ESTHER KAUFMAN, A.B., Queens College, 1944

ELVA ARLINE McALLASTER, A.B., Greenville College, 1944

MARGARET ESTHER MERCER, B.S., 1937

CAROL GRACE NIELSEN, A.B., Carthage College, 1944

ANNE AGNES O'ROURKE, B.S., Southern Illinois Normal University, 1944

*In French*

MARJORIE MARIE SPAIN, A.B., 1944

*In History*

THEODORE FISCH, A.B., 1942

KEMP FREDERICK GILLUM, A.B., 1944

PAUL GAYLORD HUBBARD, JR., A.B., Wabash College, 1943

*In Mathematics*

RICHARD WILLIAM BALL, A.B., 1944

MILDRED JEANNETTE BRANNON, B.Mus., 1940; M.Mus., Indiana University, 1942

CEVDET ALI ERZEN, B.S., M.S., 1941, 1942

LOIS AILEEN HOSTINSKY, B.S., Kansas State College, 1943

HELEN VIRENA SIBTHORP, A.B., James Millikin University, 1940

ANNETTE SINCLAIR, B.S., Central Missouri State Teachers College, 1940

*In Social Sciences*

GENEVA ELIZABETH SCHULTHEIS, A.B., 1940

*In Spanish*

JACQUES ROBERT KAPLAN, B.S., 1943

*In Speech*

LOIS CAROLYN KERCHENFAUT, A.B., 1944

FLORENCE ESTHER McLAUGHLIN, B.S., 1937

*In Zoology*

HAROLD CARL FISCHER, A.B., 1938

**Degree of Master of Science***In Accountancy*

MARY PRICKETT CARTER, A.B., College of William and Mary, 1944

*In Animal Husbandry*

DAMON VON CATRON, B.S., Purdue University, 1938

GEORGE EDWARD ROBINSON, JR., B.S., Alcorn Agricultural and Mechanical College,  
1942

*In Animal Nutrition*

MARION PALMER FREEMAN, A.B., Mt. Holyoke College, 1921

*In Animal Pathology and Hygiene*

PAUL DONALD BEAMER, D.V.M., Ohio State University, 1941

*In Architecture*

WILFRED KATSUMI FUCHINO, B.S., 1944

*In Bacteriology*

CLARENCE VERNON HUBBARD, A.B., University of Iowa, 1936

DOROTHY WRAY REESMAN, A.B., Ohio State University, 1944

*In Botany*

AUDREY HOPE BENEDICT, A.B., Knox College, 1944

*In Ceramic Engineering*

HARALDUR 'ASGEIRSSON, B.S., 1944

*In Chemistry*

GRAY LUCAS, B.S., Virginia Polytechnic Institute, 1942

MARVIN FREEMAN NATHAN, B.S., Pennsylvania State College, 1943

ELIZABETH WILSON PEEL, A.B., University of Pennsylvania, 1942

*In Civil Engineering*

ALI AKSEL, B.S., Robert College, 1943

SAKIP MEHMET ALTAY, B.S., Robert College, 1943

KASIM ABDULNAFI ATLAS, B.S., Robert College, 1943

MEHMET VEDAT URUL, B.S., Robert College, 1943

*In Economics*

CHARLES EMERY BRADLEY, JR., B.S., James Millikin University, 1942

WILLARD SEBERN HALL, B.S., 1927

*In Education*

MARSHALL KEITH BERNER, B.Ed., Illinois State Normal University, 1942

ALMA WALLMAN HALL, B.S., Butler University, 1935

GORDON SCOTT HIRST, B.Ed., Illinois State Normal University, 1940

CARLETON JOHN JACOBSON, B.S., 1937

HAROLD VICTOR JOHNSON, B.S., Bradley Polytechnic Institute, 1935

GEORGE WINFIELD LATHAM, B.Ed., Illinois State Normal University, 1936

MABEL PORTER MCGOWAN, B.Ed., Southern Illinois Normal University, 1937

HERMAN JOSIAH MERCER, B.S., Northwestern University, 1912

DOROTHY JANET MUNGER, B.S., 1940

ROBERT LEE HART OLDHAM, A.B., Illinois Wesleyan University, 1933

JAMES FRANK PLACEK, B.S., 1939

DAVID PONITCH, B.S., 1944

WILLIAM DIDCOCK POSEGATE, B.S., 1934

ALFRED WALTER STREPEK, B.S., 1934

ROBERT LEE WALLACE, B.S., 1940

*In Entomology*

JEAN-PAUL PICARD, B.S., 1944

JANET LORRAINE COOPER RAPP, B.S., New Jersey College for Women, 1943

WILLIAM FREDERICK RAPP, JR., B.S., Rutgers University, 1944

*In Geography*

PEARL MOSGROVE, B.S., 1941

*In Geology*

ELIZABETH ANN LIVESAY, A.B., 1944

*In Home Economics*

METTA MOUDY ZAHORSKY, B.S., 1940

*In Horticulture*

JAMES EARL MCJILTON, B.S., 1938

*In Library Science*FRANK JOSEPH BERTALAN, JR., B.Ed., Illinois State Normal University, 1938;  
B.S.(Lib.), 1939SYBLE ETHEL MASON, B.Ed., Central State Teachers College (Stevens Point,  
Wisconsin), 1928; Diploma, Library School University of Wisconsin, 1936

HELEN LOUISE NORRIS, A.B., Knox College, 1932; B.S.(Lib.), 1933

*In Mathematics*

JAMES LANE BOSWELL, III, B.S., Ursinus College, 1944

*In Mechanical Engineering*

JOHN ADAMS HENRY, B.S., Michigan State College, 1930

MILLARD ORLANDO STARR, B.S., 1935

*In Metallurgical Engineering*

EARL JOSEPH ECKEL, B.S., Michigan College of Mining and Technology, 1937

*In Music Education*

MAYER HIRSCH CHANNON, B.S., 1943

MARY MILLS PAYNE, B.S., B.Mus., 1937, 1937

*In Physical Education*

ROBERT MARION ALLEN, A.B., McKendree College, 1942

KENNETH BOUCH RAWLINSON, B.S., 1936

*In Theoretical and Applied Mechanics*

WILL JUNIOR WORLEY, B.S., 1943

## COLLEGE OF LAW

## Degree of Bachelor of Science

*In Law*

MARJORIE LOUISE LERSCH, with Honors · SYLVIA STERN

## Degree of Bachelor of Laws

IMOGENE WOLFE BRANIGAN, A.B.,  
Vassar College, 1938

ROBERT CULLEN NIHAN, B.S., 1942

ALFRED LEONARD PEZMAN, A.B., 1942  
TRENT ALLEN SHEPARD, B.S., 1942

## LIBRARY SCHOOL

## Degree of Bachelor of Science

*In Library Science*

MARY ELLEN COUCH, B.S., Southwest Missouri State Teachers College, 1943  
 LAURA GREER DECKER, B.S., A.B., A.M., University of Missouri, 1929, 1930, 1938  
 MARY ELIZABETH DUGAN, A.B., Clarke College, 1940  
 IRMGARD OTTEN GRAHAM, B.S., Northwestern University, 1928; with Honors  
 DORA GROBSTEIN, A.B., 1944  
 CLARA MAE HAGERMAN, B.Ed., Illinois State Normal University, 1942  
 MILDRED MORGAN HARPER, A.B., University of North Carolina, 1928  
 ANNA FRANCES HORNAK, A.B., University of Texas, 1944  
 VIOLA LOUISE JAMES, A.B., Greenville College, 1940; with High Honors  
 VIRGINIA CHURCHILL JONES, A.B., Southwestern, 1936; with High Honors  
 MARY EDITH KINNAMAN, A.B., MacMurray College, 1944; with Honors  
 ALMEDA LENA LEAKE, A.B., University of Kentucky, 1938  
 KATHERINE LINDEMAN, A.B., MacMurray College, 1944  
 JANE VON MEHREN, A.B., 1944; with High Honors  
 ERMINA GERTRUDE MOORE, A.B., Indiana University, 1912  
 LOIS CATHERINE NEFF, A.B., Ohio University, 1944  
 BETTY RAE RAGAN, A.B., MacMurray College, 1944  
 MARIAN RANSOM, A.B., University of Kansas, 1944  
 LELLA GENEVA SMITH, A.B., College of the Ozarks, 1940  
 MARGARET ELAINE SNYDER, B.S., South Dakota State College, 1944  
 ELLEN LENORA STANLEY, A.B., Earlham College, 1944; with High Honors  
 MARY VIRGINIA SWISHER, A.B., West Virginia University, 1941; with High Honors  
 ESSIE LEE TATUM, A.B., Philander Smith College, 1943  
 CHOW LOY TOM, B.Ed., University of Hawaii, 1941; with Honors  
 MARY ALICE WAIT, A.B., Greenville College, 1944

## COLLEGE OF LIBERAL ARTS AND SCIENCES

## Degree of Bachelor of Arts

*In Liberal Arts and Sciences*

ROBERT DALE ACTON	SYLVIA MARTIN CONDE
BLOSSOM SHIRLEY AFREMOW	JEAN ELIZABETH CUNNINGHAM
MARY JEAN ALLEN, with High Honors in Sociology	JOSEPH JOHN DAY, Jr.
RUTH ALTSHUL	WINIFRED MAE DEAL
BETTY JEAN ANDER	HELEN JEAN DEES
ALICE ELIZABETH ANDREWS	DOROTHY FAY DIBBLE, with Honors in Psychology
ALICIA JUNE BALESTRI	BARBARA YERBY DUNN
BETTY GERTRUDE BALTER	LYDA MAE ECKE, with Highest Honors in English
IRENE MARIE BARCY	HERSCHELL GENE EMERY, with Highest Honors in Political Science
DOROTHY VIRGINIA BARNEY	ELAINE JANET EPSTEIN
HELEN IRENE BELOW	RUTH ELAINE FARHA
THEODORE MURLEY BENDEL	BETTY JEAN FARLEY
LOU ANN BENSON	EDITH FISHER, with Highest Honors in Sociology
MARJORIE SONIA BERNSTEIN	ALEEN VERNA FOWLER
JEAN BILDERBACK	MARJORIE EILEEN FOX, with Honors in English
ROCHELLE BEATRICE BUSCH	ALICE RUTH GABEL, with High Honors in English
MARGARET ANNE BUYER	LUCILLE B. GARNITZ
GRACE HERMAN CALDER	
ALTA FERN CHIPPS	
VIRGINIA HELEN CHOUINARD	
JEANETTE CHUMBLEY	
LOUISE ANNE COLE	

RICHARD IRA GILFORD  
 LORRAINE HARRIET GITLITZ, with  
     Honors in Sociology  
 MAYORA JUNE GITLITZ  
 GLADYS MIRIAM GITTLEMAN  
 MURIEL JOY GOLDMAN  
 CLARA ELIZABETH GOODIN  
 ELIZABETH DIAN GOULET  
 PEGGY ANN GRAHAM  
 JANE BICKEL GREENWOOD, with Honors  
     in Psychology  
 ANNE LOUISE GROVER  
 JEANNE MITCHELL GULLETT  
 HAROLD CURTIS HALL  
 PATRICIA ANN HANNAN  
 ELYNOR SARAH HANSEN  
 FREDERICK CLARE HANSON  
 MARIANNA HARPER  
 RUTH GRACE HAUSER  
 CELIA JOY HEYMAN  
 MARTHA ELLEN HIETT  
 CONSTANCE BURDELLE HOGANSON  
 BETTY ELLEN HOLMSTROM  
 ELIZABETH KAY HOUSE  
 TOBY MATILDA IGLER  
 LORRAINE JANE ILLICH  
 ANNETTE JANE INGRAM  
 MARION EDITH JENKINS  
 MARY LEE JOHNS  
 LAURABELLE JOHNSON  
 VIRGINIA CLARE JOHNSON  
 BEATRICE MARGARET JONES  
 NANCY GAINES JONES  
 ELLEN CAROL JORDAN, with High  
     Honors in Geology  
 DORIS ANNE JUDSON, with Highest  
     Honors in Mathematics  
 MAURICE KAHN  
 ELAINE MARIE KARLS  
 HILDA KELLEY  
 MARY VIRGINIA KENDALL  
 MARY KATHRYN KENNEDY  
 RUTH HELEN KOHLHAUFF  
 KLARA BELLE KOSTOFF  
 DOROTHY MAE KRELL  
 VIRGINIA RUTH LAMANDIN, with High  
     Honors in Political Science  
 DEVERA GEORGETTE LEAVITT  
 JAMES NICK LEONARD  
 LORRAINE C. LEVIN  
 SHIRLEY JEAN LUNDMARK  
 ELIZABETH ASTON MACMILLAN  
 VIVIAN MARJORIE MARX, with Honors  
     in Spanish  
 MELVIN JOHN MATEYKA  
 BETTY JANE MATHEWS, with Highest  
     Honors in Psychology  
 PETER STEWART MAYER  
 GLORIA MITCHELL MAZZIA, with  
     Highest Honors in Political  
     Science  
 DONALDA ROWENA McLEAN

MARILYN MEEK  
 ALICE LEE MESERVE, with Highest  
     Honors in Spanish  
 DORIS JEAN MORAW  
 MARTHA IRENE MORDUE, with Honors  
     in Psychology  
 MARJORIE JANE MORGAN, with Honors  
     in Spanish  
 AUDREY HOPE OFFICE  
 ETHEL MAY OLDENDORPH, with Highest  
     Honors in Political Science  
 FLORENCE MARIE OLSON  
 MARTHA GOODWINE ORTIZ  
 RUTH ELIZABETH OWEN  
 FRANK PAUL PALOUCHEK, Jr.  
 JOSEPH HENRY PAWLISH  
 MARY LOUISE PETERSON  
 ANNETTE PEVSNER  
 LORETTA MARIE PIZZINI  
 BETTY LOU PRESTON, with High  
     Honors in Spanish  
 LOUISE MATHILDE REINHARD PROEHL,  
     with High Honors in English  
 GEORGIA BERYL PULLIAM  
 JOAN RANDOLPH  
 THELMA MARIE RIGGIN, with High  
     Honors in English  
 DOROTHY JEAN RITTER  
 MARGARET ANNE ROBBINS, with Highest  
     Honors in Economics  
 MILTON WILLIAM ROHDE, with Honors  
     in Psychology  
 BARBARA JEAN ROOS  
 BETTY ANN ROSE  
 GLADYS LUCILLE SAMUELSON  
 DARLENE MARIE SCHAEFER  
 MARY LOUISE SCHENK  
 HELEN DUNGLISON SCHERER, with  
     Honors in Spanish  
 ELEANOR JANE SCHLECHT  
 ELIZABETH VIRGINIA SEALES  
 BEVERLY ARLENE SEEDS  
 LAYNE SHEFFERMAN  
 EILEEN SHEPARD  
 HELEN BERYL SHER, with Highest  
     Honors in Spanish  
 DIANE BERNICE SHERMAN  
 BELLE SIROTA  
 HELEN CHARLOTTE SKRODER  
 DOROTHY ELLEN SPITLER  
 MARY WARRICK SQUIRES  
 WINIFRED MAGDALENE STABENOW  
 BARBARA MAY STANBERRY  
 MARTHA JUNE STANBERRY  
 ROSE ANNE STEWART  
 GEORGE JOSEPH STURM  
 SARA BETH THOMAS  
 ELVIRA CATHERINE THOUVENOT  
 VIRGINIA GHER TRAIN  
 MARY P. TREBELLAS  
 FERN NIGHTINGALE TURNER  
 CHARLOTTE WEXLER

DOROTHY WHIPP, with High Honors  
in English  
ELAINE BETTY WIEMERS  
GLORIA CLAIRE WINSLOW, with Highest  
Honors in History  
RUTH ANN WITTY

SALLY MARILYN WITTY  
SALLY SCHWARTZ WOLINETZ  
MARILYN ELLEN WOOD  
VIRGINIA STOTT YENERICH, with  
Highest Honors in Economics  
CORA ELIZABETH YOUNG

### Degree of Bachelor of Science

#### *In Liberal Arts and Sciences*

RUTH MARIE ANTES  
HELEN MAE AUERBACH, with Honors  
in Bacteriology  
JACK AARON BEIMAN  
CARL WILLIS BONTEMPS  
BARBARA HELENE BUDZIK  
ELEANOR FRANCES CALDWELL  
EMILY BARTOSZEK CHRISTIAN  
WILLIAM DALESSANDRO  
HARLAN BERNARD DODGE  
KATHARINE EMMELINE EISNER  
BARBARA LEE ELLIS, with Honors in  
Psychology and Sociology  
DOROTHY ANN EMSING, with High  
Honors in Psychology  
DORIS JEAN METZLER EVELAND, with  
Highest Honors in Geography  
BERNARD FELDMAN  
OPAL RUTH GIBSON  
HAROLD GOLDBERG  
MELVIN ASHER GOLDBERG  
JOHN BAYMAN GOLDSBOROUGH  
ELEANOR MEYER GREENWOOD, with  
Highest Honors in Mathematics  
WINNIE HARMON, with High Honors in  
Bacteriology  
JOANNE HUTCHINSON HILLS, with  
Highest Honors in Bacteriology  
GERTRUDE MADELINE HIRSCH, with  
Honors in Zoology  
BRUCE WAYNE HORROM  
SUZANNE LORETTA JOHNSON  
MELVIN LEE KELLER  
MARILYN JEANETTE KERR

FELICE MARY KRAFT  
RUTH DOLORES LEVIN  
LILLIAN GWENDOLYN MADISON  
EUGENE KINGERY MAUN, with Highest  
Honors in Chemistry  
LILLIAN MARIE METZ, with Honors in  
Bacteriology  
BESSIE MIROSOVSKY  
DELORES FLORA MUMMERT  
ELEANOR GARD MYERS  
ELIZABETH LOUISE NELSON  
NORMAN NOVACK  
MILDRED ESTELLE ORENSTEIN  
JOANNE ELIZABETH PATTERSON, with  
High Honors in Psychology  
LOIS ACKERMAN POSTELNEK  
HAROLD ANTHONY PRICE  
CHARLOTTE RINGEL  
MILDRED ROCHELLE SABATH  
URSULA KIRSCHBAUM SELBY  
MILDRED LEMIRA SHATTUCK, with  
Highest Honors in Bacteriology  
MARGARET BEARDSLEY SHEPARD  
WILLIAM RUSSELL SMITH  
MARJORIE GERTRUDE STITT  
LEO TAMLER  
WALTER BERNARD TRAPP  
VIOLA UCITEL  
JOSEPHINE FIDELIS WALKER  
ELEANOR JAYNE WILFRED, with Honors  
in Chemistry  
CLYDE EVERETTE WORK  
BARBARA JEAN YORK

#### *In Chemistry*

QUANDT MILTON ADAMS

FRANCIS ELMER FISCHER, with Honors

#### *In Chemical Engineering*

JOHN FRANCIS HOWE  
HOWARD LYNN KUHLE

KENNETH WARREN PERRY  
DAVID JEROME TOBIN, with Honors

#### *In Home Economics*

DOROTHY HARRIET MCGORRISK

PHYLLIS IONE MYERS, with Highest  
Honors

### COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

#### Degree of Bachelor of Science

##### *In Accountancy*

ROBERT KEITH DiVALL, with Honors  
CAROL IRENE HASEMEYER, with Honors  
GORDON CROME HORTIN  
DONALD VINCENT KANE

BERNADETTE GRACE PESKIND  
CHARLES EDWARD SEAY  
FREDERICK JAMES STEPHENS  
EMMA LOUISE WELCH

*In Commercial Teaching*

MARY PAULINE GRAVES

*In Economics*

MISCHA COHEN, with Honors

FLORENCE RUTH SPIESEL

*In Industrial Administration*

BRUCE SUTHERLAND SCHRICKER

*In Management*

HARRIS POWERS BLOMEYER

VIDA MARIE KERNZ

MARIAN JOYCE DAVIDSON

DANIEL SELIGMAN, with High Honors

EARL WILLIAM FLEMING

LYNDLE EUGENE STARK

JOHN RICHARD FOLLMER

FLORENCE JEAN WYLIE

FRANK JOHN HILL

*In Management and Marketing*

ELIZABETH JEANETTE BROWNING

JOHN DAVID SENDER

HARVEY LOUIS HURWITZ

*In Marketing*AVONNE LUCRETIA ANDREWS, with  
Honors

NANCY LOUISE NESBITT

## COLLEGE OF ENGINEERING

## Degree of Bachelor of Science

*In Ceramic Engineering*

DONALD WILSON HAMER, with Honors

WILLIAM JOHN MEID

*In Civil Engineering*

WALTER ANDRESS BARRY, JR.

WILLIAM SIEPKER MOLLENHAUER

FRANK EUGENE BLAES

ROBERT DWIGHT NELSON, with Honors

RUSSELL HAROLD BROTHERRSON

BOYD COLTON PAULSON, with Honors

LEWIS ALAN CREA, with Honors

WALTER THOMAS POYER, JR.

WALTER EDWIN CRUM, with Honors

RALPH EUGENE ROBISON

WILLIAM OLDFIELD FREY, with Honors

JEAN JULIAN SCHUENEMAN

JOHN JOSEPH FYALKA

OSCAR SMUKLER

ROBERT HUNTER GILLESPIE, with  
Honors

DAVID GORDON TARRAN

BERNARD WEIL JACOBSON

DAVID YUNG CHOY TOM

NORMAN BLAIR JONES, with High  
Honors

SHELBY KENNETH WILLIS

CURT ANTON MATYAS

CLARENCE JAMES WOOD

ALEXANDER JANSSEN WOOLDRIDGE

*In Electrical Engineering*

JOSEPH WILLIAM BARTOSCH

PHILIP HENRY LUFT

JOHN HENRY BUDD

JAMES EDWARD LYONS

RICHARD DONALD CRAWFORD

RICHARD JAMES MEDAL

DONALD AUSTIN DELANEY

EDWARD VAUGHAN PHILLIPS

ROBERT JOHN GALVIN

PAUL ALBERT RIEPMA

KENNETH O. HANKS, JR.

FORREST CARLTON STROME, JR., with

JOHN URBAN JEFFRIES

Honors

ROBERT JOHN LA PLANTE

LOIS HUME WINDHORST

*In Engineering Physics*

MELVIN COLEMAN CHANEY

ROBERT ARTHUR JOHNSON

GEORGE GERDWOOD CLARK, JR.

*In General Engineering*

EDWARD JOHN DEMLOW

PAUL LAFOREST JOHNSON



*In Mechanical Engineering*

CLIFFORD HARRY ALLEN  
 LARZ TORQUIL ANDERSON  
 EDWARD RALPH BOWER, with Honors  
 ELDEN GUNNARD CARLSON  
 JOHN THOMAS FISHER  
 EDWIN HENRY HAAS  
 DONALD EARL HELLEMN  
 JERALD FRANCIS JAEGER  
 FRED HIGHFIELD LINDSTROM  
 JOSEPH FREDERICK LYDEN, Jr.

RICHARD JOSEPH OBERTO  
 HAROLD LEON PATHMAN  
 CHARLES RULE RANKIN  
 BRUCE PAUL RICH.  
 JERRY RONALD ROAN, with Honors  
 LEE ELWIN STICKLER, with Honors  
 CHARLES MATT VUSICH  
 EDWIN ANSEL WHALIN, Jr., with High Honors

*In Metallurgical Engineering*

ROLAND POLK CARREKER, Jr.

RICHARD KELLOGG DICKSON

*In Sanitary Engineering*

WILLIAM THEODORE ALEXANDER  
 EDWARD ROBERT BAUMANN  
 ADOLPH EMILIO BONIN  
 WALTER CHARLES BOYER  
 KHALIL MCKAY BUDGE  
 NORMAN GAIL FLAIGG  
 LLOYD REED GEBHART  
 SIDNEY MARVIN GRELLER  
 ABRAHAM CLAUDE GRIFFIN, Jr.  
 JOHN MICHAEL ITAK

FRANK ANGELO LOGUIDICE  
 FRANK THOMAS LUCAS  
 BENJAMIN GEORGE MARCIN  
 CHARLES ARTHUR MORSE, Jr.  
 MAURICE STANLEY RICHMOND  
 CHARLES ETZEL SCHAFFNER  
 ROBERT BERGER STEYTLER  
 WILLIAM LESLIE WARDLE, Jr.  
 LLOYD WAYNE WELLER  
 JAMES HAROLD ZOLLER

## COLLEGE OF AGRICULTURE

## Degree of Bachelor of Science

*In Agriculture*

DONALD EUGENE BECKER, with High Honors  
 JAMES ROBERT BRECKENRIDGE, with Highest Honors  
 WILLIAM JOHN BRINKLEY  
 ALLEN DALE MCCONATHY  
 CLARENCE EDWIN MICK

ALLAN GEORGE MUELLER, with Highest Honors  
 CARLOS CLIFFORD REICHERT, with High Honors  
 WARREN ROGER SMITH  
 PAUL CLENENDEN STOUT  
 DEAN DELBERT URICK

*In Home Economics*

MARY ELLEN ALLARD  
 MARIAN RUTH ARNOLD  
 HARRIET ANNE BAKER, with Honors  
 BETTY JANE BEIDELMAN  
 ALMA MADELINE BLACK  
 DONNA FERN BUCKLER  
 MARY JEAN CALDWELL  
 EMMA LOU COLAW  
 MARY SUE CONGLETON, with Honors  
 JACQUELINE NELL CROWE  
 HAZEL LOUISE DEWALL  
 MILDRED RUTH DORCH  
 LAVINA EDNA EBERHART  
 RUTH FRANTZ EVANS  
 DOROTHY CRAWFORD FREEMAN  
 DORIS MARIE GANSON  
 ANN ELIZABETH GERBER  
 MARGARET ADELINE GETTY  
 MARGARET JEAN HARVEY

GWYNETH HARTMAN HEATH  
 KATHLEEN SWINGLEY JACKSON  
 RUBY HELEN KURR  
 DOROTHY ANN LEPLA  
 IRENE GARNET LOFFTUS  
 CAROLYN JANE MADERER, with Honors  
 ELEANOR EUGENIA NELSON  
 BETTY ANN PARKES  
 MYRA ANN SAFFORD  
 MARILYN ALICE SANDQUIST  
 ELEANOR RUTH SIEKMANN, with Honors  
 JEANNE BARBARA SMITH  
 CATHERINE MARGUERITE SULLIVAN, with Highest Honors  
 RITA LUCILLE SULLIVAN  
 MARY ELLEN UHL  
 ELLA MAY WEMHOENER  
 CAROLINE TRENKLE WHITTON

**COLLEGE OF EDUCATION****Degree of Bachelor of Science***In Education*

DEAN STEELE ABENDROTH	BETTY ELEANOR ISAACS, with Honors
MARTHA ROWENA ANDREWS	in English and Education
DELORIS LOUISE ARGIANAS	DOLORES HELEN JOHNSON
RUTH BAHCALL	ELIZABETH BERNADINE KREIZENBECK
GLORIA BERMAN	MARGERY LOUISE LEHN
MARY ELOISE BOWMAN	ROSA LEE LIEBENGOD
CAROL THRIFT BRAND	CHARLOTTE FAYE LIPOFF
RUTH ELEANOR BRANDWEIN	DOROTHY ALBIETZ LITHERLAND
GENEVA CELESTE CALCATERRA	LORETTA MAE McCUTCHEON
BETTY JANE CARLSON	LOIS JEAN McNAMEE
IVA NAOMI CARR	IDA MAE MEYER
AMY LOU CHAILLAND	ALICE COX MYERS
JULIETTE ADELE CODERRE, with High	PHYLLIS LOUISE NELSON, with High
Honors in History	Honors in Education
ARTHUR HALLAM CRUM	WILLIAM AXEL PARKER
ERNA ELEANOR DE SOLLAR	EDITH ELLEN PETERS
HARRIETT EVELYN DUGAN	PAULINE ADELINE RAINES
HELEN VIRGINIA EISENBRANDT	KATHRYN JANE RICHNER
PHYLLIS DALE FALSTEIN	DOLA SANDERS
RUTH FRANCIS FRIEDMAN	MARION BARBARA SCHMITZ
RUTH ELEANORE GEIPEL	ELIZABETH JONES SIMPSON
MARY ELIZABETH GILLHOUSE	HELEN LOUISE SMITH
JEAN MARGARET GOLDSMITH	CHARLOTTE LILLIAN STEFFAN
MARIAN ESTHER GUDDER	LEOTA MAE STINE
MARGARET MOERY HAMMAN	PATRICIA LUE WINTER
HAZEL MOSIER HUSTON, with Honors	
in Education	

*In Home Economics Education*

PATRICIA ANN HOBSON

*In Industrial Education*

CHARLES BAXTER ALGEO

**COLLEGE OF FINE AND APPLIED ARTS****Degree of Bachelor of Science***In Architectural Engineering*

HENRY CHARLES KLUCK	GEORGE RANDALL THOMPSON
GEORGE DWIGHT STORRS, Jr., with	JOHN ALEX WENDELL
Honors	

*In Architecture*

ROGELIO DIAZ	MARGARET ELIZABETH ROLLEY
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*In Music Education*

MARGARET ANN FARR, with High	MARY ANNE KIRK, with High Honors
Honors	ELEANOR MARIE LaFORGE, with Honors
MARY LOUISE HAAS	GLADYS ELVA LAPHAM
NORMA JOAN HERTENSTEIN, with High	KAREN DIANE NELSON
Honors	LAURALYNN PARKERSON
PATRICIA JEAN HUELBIG, with High	MONICA PRISCILLA WOLF, with High
Honors	Honors
JEAN FACKLER JOHNSON	

**Degree of Bachelor of Fine Arts***In Art Education*

ELISABETH GRACE BALDWIN, with High	GERALDINE JANET GILCHRIST
Honors	JANE TUTTLE MCGREW

*In Industrial Design*

CAROL LOUISE HEDRICK

GEORGE WILLIAM SMITH, with Honors

*In Painting*

DOROTHY JEANNE BOWEN

SIDNEY LOUIS RUSHAKOFF, with

DOROTHY MARIE KAISER

Highest Honors

FLO NELL MORRIS, with Honors

JEAN LOUISE SMITH

BETTY LOU NOLEN, with Highest  
Honors**Degree of Bachelor of Music**

MARIE ESROM

MARGARET RUTH LOWRY, with High  
HonorsCAROL LOUISE JOHNSON, with High  
Honors

ALICE MAE WILHELM

IRMA ELAINE KERR

**SCHOOL OF JOURNALISM****Degree of Bachelor of Science***In Journalism*

WILMOGENE ALLISON

JEAN MARY HOFFMAN

JAMES MERRILL BEAUMONT

BERNICE JANE HOLLMANN

LOLA GERTRUDE CLARK

FLORENCE JOSEPHINE JOHNSON

ELEANOR CLAUDINE CROZIER

BEVERLY MAE JONES

ELIZABETH ANN DARRAH

RUTH ELLEN LIPPMAN

MARY LOUISE DRUM, with Honors

MARGUERITE MELIN

PHYLLIS DRENNAN FISH

RUTH SCHWAGER MEYER

RAYMOND CYRIL FLESHER

EMMA PATRICIA OWENS

HELEN CECILE GLENN

ANNABEL JEAN SCOTT, with Honors

ALICE JEANNE HARMON, with High  
Honors

MERI JEAN STOUT, with Honors

MARGARET JACKSON HATCHER

ROSALIE CAROL STUPKA

MARILYNN LOUISE HIGHT, with Honors

MARY ANNE FEHR'S SWISHER

**SCHOOL OF PHYSICAL EDUCATION****Degree of Bachelor of Science***In Physical Education*

BERNICE ROSE ANDERSON

HELEN MAE MORGENSTERN

CHARLES ANDREWS

EILEEN KATHERINE SCHWARK

SHIRLEY KNUCKEY BROOKS

ADELINE ZDERAD SOLHEID

PHYLLIS CUNNINGHAM

SOLERO TOVAR DE LA VEGA

MARION JULIA HOLMBECK

ELAINE MARIE ZWICK, with Honors

LORRAINE MARGARET MIESCHKE, with  
Honors**DIVISION OF SPECIAL SERVICES FOR WAR VETERANS****Degree of Bachelor of Science**

WILLIAM LEON HARDEN

*Degrees Conferred June 16, 1945, in Chicago***COLLEGE OF PHARMACY****Degree of Bachelor of Science in Pharmacy**

JULIAN CLAITMAN

LEON HARRY RESNICK

**COLLEGE OF MEDICINE****Degree of Bachelor of Science in Medicine**

NORMAN MORTON FRANK

## GRADUATE SCHOOL

## Degree of Master of Science

*In Applied Materia Medica and Therapeutics*

DONALD LUDDEN McELROY, D.D.S., 1932

*In Bacteriology*

SEYMOUR LEVINE, B.S., University of Chicago, 1942

*In Chemistry*

MOIS JOSSIF SINTOV, B.S., 1944

## SECRETARY'S REPORT OF CONTRACTS

The Secretary presented also for record the following documents signed by the President and the Secretary of the Board, and deposited with the Secretary since the last report.

Hartwell C. Howard, agreement dated April 19, 1945, granting the University of Illinois the right of preserving and maintaining spur track in its present location.

Illinois Power Company, agreement for joint use of poles for circuit to Airport, dated May 22, 1945.

## SALE OF ROSELAWN CEMETERY LOTS

The Secretary presented also for record the following report of sale of lots in Roselawn Cemetery since the last report of such sales:

Date	Description	Purchaser	Sale Price
May 2, 1945	SE¼ Lot 75 Section G	Mrs. Clara E. Kesler	\$105
May 7, 1945	SE¼ Lot 155 Section G	Fred and Calla Westall	\$105
May 7, 1945	SW¼ Lot 155 Section G	Mrs. Effie Babcock	\$105
May 7, 1945	N½ Lot 155 Section G	Paul and Alyene Prehn	\$210

## GRADUATE SCHOLARS AND FELLOWS

The Secretary presented also for record the following list of graduate scholars and fellows appointed by the President of the University on the dates indicated in each case.

URBANA DEPARTMENTS	Terms of 1945-1946*	Scholarship Stipend	Fellowship Stipend
<i>Chemistry</i>			
HERMAN I. ENOS, JR. (Eli Lilly Fellowship) (5-10-45).....	S.	....	\$ 375
AUGUSTA A. KNOEPFELMACHER (6-25-45)...	F.W.	\$350	....
DONALD G. POWELL (5-10-45).....	F.W.	350	....
<i>Economics</i>			
CHARLES E. BRADLEY, JR. (6-14-45).....	F.W.	....	575
<i>History</i>			
HARRIET L. DILLAVOU (5-10-45).....	F.W.	350	....
<i>Home Economics</i>			
ALICE ROSE EDSON (6-20-45).....	F.	175	....
<i>Library Science</i>			
MARTHA MOORE (5-10-45).....	F.W.	350	....
MARJORIE M. MUNGER (Katharine L. Sharp Scholarship) (5-10-45).....	F.W.	300	....
<i>Mechanical Engineering</i>			
A. MORSE BETTISON (5-29-45).....	S.	350	....
CHICAGO DEPARTMENTS			
<i>Medicine</i>			
LAWRENCE B. HOLDEN (6-21-45).....	D.	....	I 200

\* Terms of the year are abbreviated as follows: S.—Summer, four months beginning June 1, 1945. F.—Fall, four months beginning October 1, 1945. W.—Winter, four months beginning February 1, 1946. D.—Year, one year beginning September 1, 1945.

## APPOINTMENTS MADE BY THE PRESIDENT

The Secretary presented also for record the following list of appointments made by the President of the University.

ATKINS, D. F., Assistant in Mathematics, beginning August 16, 1945, and continuing through September 30, 1945, at a salary at the rate of two hundred forty dollars (\$240) a month. (June 27, 1945)<sup>1</sup>

AZBELL, WILLIAM, Assistant in Physics, in the College of Engineering, for nine months beginning July 1, 1945, at a salary at the rate of three thousand one hundred fifty dollars (\$3150) a year. (June 16, 1945)

BAYLOR, MRS. MARTHA BARNES, Special Research Fellow in Electron Microscopy, for one year beginning July 1, 1945, at a salary of two thousand six hundred dollars (\$2600). (May 21, 1945)

BECKER, DONALD EUGENE, Assistant in Swine Husbandry, in the Department of Animal Husbandry, in the Agricultural Experiment Station, on three-fourths time, for three months beginning June 1, 1945, at a salary at the rate of one hundred twenty-five dollars (\$125) a month. (May 23, 1945)

BOYD, RALPH L., Assistant Professor of Business Organization and Operation, for one year beginning September 1, 1945, at a salary of three thousand eight hundred dollars (\$3800). (May 21, 1945)

BRADEL, SIGMUND FRANCIS, Associate Professor of Dental Radiology, and Head of the Department of Radiology, in the College of Dentistry, on one-half time, for one year beginning September 1, 1945, at a salary of three thousand five hundred dollars (\$3500). (May 25, 1945)

CAGLE, FREDRIC WILLIAM, JR., Special Research Assistant in Chemistry, on one-half time, for four months beginning June 1, 1945, at a salary at the rate of fifty dollars (\$50) a month. (May 31, 1945)

CLARK, ROBERT KINGSBURY, JR., Special Research Assistant in Chemistry, for eleven months beginning September 1, 1945, at a salary at the rate of one thousand nine hundred eighty dollars (\$1980) a year. (May 21, 1945)

COON, MINOR JESSER, Special Research Assistant in Chemistry, for one year beginning July 1, 1945, at a salary of one thousand eight hundred dollars (\$1800). (May 21, 1945)

CRUSINBERRY, BARNARD HERSCHEL, Instructor in Physics, in the College of Engineering, for four months beginning September 1, 1945, at a salary at the rate of two hundred eighty dollars (\$280) a month (this supersedes his previous appointment). (June 27, 1945)

DEHR, ARLIN MARION, Research Assistant in Bacteriology, beginning August 15, 1945, and continuing through May 31, 1946, at a salary of nine hundred fifty dollars (\$950). (June 5, 1945)

DELONG, GEORGE CASS, Instructor in History, for four months beginning June 1, 1945, at a salary at the rate of two hundred fifty dollars (\$250) a month. (June 4, 1945)

DICKMAN, SHERMAN RUSSELL, Special Research Assistant in Chemistry, for eleven months beginning September 1, 1945, at a salary at the rate of three thousand two hundred dollars (\$3200) a year. (May 21, 1945)

DRISCOLL, MAE ANNA, Assistant in Physics, in the College of Engineering, on three-fourths time, for eleven months beginning July 1, 1945, at a salary of two thousand one hundred sixty-five dollars sixty-three cents (\$2165.63) for the period. (June 16, 1945)

GANS, DAVID, Instructor in Mathematics, for six months beginning July 1, 1945, at a salary at the rate of three hundred dollars (\$300) a month. (June 27, 1945)

GIBBS, MARTIN, Research Assistant in Botany, for two months beginning July 1, 1945, at a salary at the rate of one hundred fifty dollars (\$150) a month. (June 14, 1945)

GIESEKE, WALTER K. H., Instructor in German, for ten months beginning September 1, 1945, at a salary of two thousand two hundred dollars (\$2200). (May 31, 1945)

HANKE, DOROTHY EVELYN, Senior Clerk-Stenographer in the Department of Forestry, in the College of Agriculture and in the Agricultural Experiment

<sup>1</sup> The date in parenthesis is the date on which the appointment was made by the President.

Station, beginning May 20, 1945, and continuing through August 31, 1945, subject to University Civil Service rules, at a salary at the rate of one hundred sixty dollars (\$160) a month (this supersedes her previous appointment). (May 21, 1945)

HENDRIX, GERTRUDE, Instructor in Mathematics, beginning July 1, 1945, and continuing through August 15, 1945, at a salary at the rate of three hundred twenty dollars (\$320) a month. (June 27, 1945)

HOCH, P. E., Assistant in Chemistry, on one-half time, for eight months beginning October 1, 1945, at a salary of six hundred sixty dollars (\$660). (June 5, 1945)

HUBBARD, PAUL G., Assistant in History, on three-fifths time, for three months beginning July 1, 1945, at a salary at the rate of one hundred forty-five dollars (\$145) a month. (June 14, 1945)

KENNEDY, MRS. BERNICE BROOKS, Instructor in Home Economics, in the College of Agriculture, for ten months beginning September 1, 1945, at a salary of two thousand four hundred dollars (\$2400) (for her convenience she will also be furnished luncheon at the Home Economics Cafeteria, valued at seven dollars (\$7) a month). (June 18, 1945)

LAMBERT, G. FREDERICK, Special Research Assistant in Chemistry, for one year beginning July 1, 1945, at a salary of three thousand two hundred dollars (\$3200). (May 21, 1945)

LOO, YEN HOONG, Special Research Assistant in Chemistry, for ten months beginning October 1, 1945, at a salary at the rate of two thousand nine hundred dollars (\$2900) a year. (May 21, 1945)

MARCH, ISABEL, Clinical Director and Instructor in Occupational Therapy, in the Research and Educational Hospitals, for four months beginning May 1, 1945, at a salary at the rate of two hundred fifty dollars (\$250) a month (this supersedes her previous appointment). (May 25, 1945)

McCLOY, ROBERT WINSTON, Assistant Professor of Aeronautical Engineering, in the College of Engineering, for two years beginning September 1, 1945, at a salary of three thousand five hundred dollars (\$3500) a year. (June 2, 1945)

McELHINNEY, JOHN, Special Research Associate in Physics, in the College of Engineering, beginning April 1, 1945, and continuing until further notice, at a salary at the rate of two hundred forty dollars (\$240) a month. (June 14, 1945)

McNAIR, HUDSON ALTON, Assistant in Rural Sociology, in the Department of Agricultural Economics, in the Agricultural Experiment Station, on one-half time, beginning June 11, 1945, and continuing through August 31, 1945, at a salary at the rate of seventy-five dollars (\$75) a month. (June 18, 1945)

McSWANE, CLARENCE ISAAC, Assistant in Mathematics, for six months beginning July 1, 1945, at a salary at the rate of three hundred dollars (\$300) a month. (June 27, 1945)

MEISEL, SEYMOUR LIONEL, Special Research Assistant in Chemistry, on three-fourths time, for four months beginning June 1, 1945, at a salary at the rate of one hundred twenty-five dollars (\$125) a month. (May 14, 1945)

MITCHELL, WINIFRED RUTH, Special Research Assistant in Chemistry, on one-half time, for four months beginning June 1, 1945, at a salary at the rate of eighty-two dollars fifty cents (\$82.50) a month. (May 21, 1945)

MORROW, JANE, Junior Clerk-Stenographer in the Physical Plant Department, for four months beginning May 1, 1945, subject to University Civil Service rules, at a salary at the rate of one hundred twenty-five dollars (\$125) a month (this supersedes her previous appointment). (May 21, 1945)

MUELLER, ALLAN GEORGE, Assistant in Agricultural Economics, in the Agricultural Experiment Station, on three-fourths time, beginning June 16, 1945, and continuing through August 31, 1945, at a salary at the rate of one hundred twelve dollars fifty cents (\$112.50) a month. (May 25, 1945)

NOGGLE, GLENN RAY, Special Research Assistant in Botany, for three months beginning June 1, 1945, at a salary at the rate of two hundred fifty dollars (\$250) a month. (June 14, 1945)

OTT, FINA C., Commerce and Sociology Librarian, beginning July 7, 1945, and continuing through August 31, 1945, at a salary at the rate of two hundred sixteen dollars sixty-seven cents (\$216.67) a month. (June 18, 1945)

PEARCE, CATHERINE ANNE, Journalism Library Assistant, on one-fourth time, beginning June 15, 1945, and continuing through July 31, 1945, at a salary

at the rate of thirty-six dollars fifty cents (\$36.50) a month, and on three-fourths time, for one month beginning August 1, 1945, at a salary of one hundred nine dollars fifty cents (\$109.50) (this supersedes her previous appointment). (June 18, 1945)

PHILLIPS, CLARENCE, Assistant in Mathematics, for six months beginning July 1, 1945, at a salary at the rate of two hundred seventy-five dollars (\$275) a month. (June 27, 1945)

POGRUND, ROBERT SEYMOUR, Special Research Assistant in Chemistry, on one-half time, for four months beginning June 1, 1945, at a salary at the rate of eighty-two dollars fifty cents (\$82.50) a month. (May 21, 1945)

RHYMER, IONE, Special Research Assistant in Chemistry, on one-half time, for four months beginning June 1, 1945, at a salary at the rate of eighty-two dollars fifty cents (\$82.50) a month. (May 22, 1945)

RYAN, MARY HELEN, Special Research Assistant in Chemistry, on one-half time, for four months beginning June 1, 1945, at a salary at the rate of eighty-two dollars fifty cents (\$82.50) a month. (May 16, 1945)

SACHS, DONALD C., Assistant in Physics, in the College of Engineering, on three-fourths time, for eleven months beginning July 1, 1945, at a salary of two thousand one hundred sixty-five dollars sixty-three cents (\$2165.63) for the period. (June 16, 1945)

SAMPSON, JESSE, Professor of Veterinary Physiology, in the Department of Animal Pathology and Hygiene, in the College of Agriculture, and Chief in Veterinary Physiology, in the Agricultural Experiment Station, on indefinite tenure, beginning July 1, 1945, at a salary of six thousand five hundred dollars (\$6500) a year. (June 28, 1945)

SCHOCKEN, KLAUS, Instructor in Physics, for nine months beginning July 1, 1945, at a salary at the rate of three hundred dollars (\$300) a month. (June 16, 1945)

SKELL, PHILIP SOLOMON, Special Research Assistant in Chemistry, for eleven months beginning September 1, 1945, at a salary at the rate of three thousand two hundred dollars (\$3200) a year. (May 21, 1945)

SMARZO, MARJORIE M., Associate in Hygiene, and Medical Adviser for Women, beginning June 10, 1945, and continuing through August 31, 1945, at a salary at the rate of three hundred dollars (\$300) a month. (June 5, 1945)

SNYDER, ELAINE, Periodical Assistant in the Acquisition Department of the Library, beginning June 12, 1945, and continuing through August 31, 1945, at a salary at the rate of one hundred fifty dollars (\$150) a month. (June 14, 1945)

STOBART, KENNETH MAYNARD, Assistant in the Laboratory, in the Research and Educational Hospitals, for five months beginning April 1, 1945, at a salary at the rate of two hundred thirty-five dollars (\$235) a month (this supersedes his previous appointment). (May 16, 1945)

STOKES, KATHARINE MARTIN, Assistant Professor of Library Science, and Circulation Librarian, for one year beginning September 1, 1945, at a salary of three thousand five hundred forty dollars (\$3540). (June 18, 1945)

STRONG, WALKER ALBERT, Special Research Assistant in Chemistry, for one year beginning August 1, 1945, at a salary of two thousand seven hundred dollars (\$2700). (May 21, 1945)

TAYLOR, WARD HASTINGS, Instructor in Mathematics, for six months beginning July 1, 1945, at a salary at the rate of three hundred dollars (\$300) a month. (June 27, 1945)

TOIGO, ANCILLA, Circulation Assistant in the Circulation Department of the Library, beginning June 4, 1945, and continuing through August 31, 1945, at a salary at the rate of one hundred fifty dollars (\$150) a month. (May 23, 1945)

WEINZIERL, MARGARET B., Head Nurse in the Health Service of the Chicago Colleges, for one month beginning June 1, 1945, subject to University Civil Service rules, at a salary at the rate of one hundred seventy-five dollars (\$175) a month (this supersedes her previous appointment). (May 15, 1945)

WITZLEBEN, HENRY DETLEV VON, Instructor in Neurology, in the College of Medicine, for five months beginning April 1, 1945, without salary. (May 18, 1945)

WOMACK, MADELYN, Special Research Associate in Chemistry, for one year beginning September 1, 1945, at a salary of three thousand two hundred dollars (\$3200). (June 27, 1945)

WOODS, DONALD ARTHUR, Circulation Assistant in the Library, on one-fourth time, beginning June 15, 1945, and continuing through July 31, 1945, at a salary at the rate of thirty-six dollars fifty cents (\$36.50) a month, and on one-half time, for one month beginning August 1, 1945, at a salary of seventy-three dollars (\$73) (this supersedes his previous appointment). (June 18, 1945)

ZIMMERMAN, EDWARD JOHN, Assistant in Physics, in the College of Engineering, on three-fourths time, for eleven months beginning July 1, 1945, at a salary of two thousand one hundred sixty-five dollars sixty-three cents (\$2165.63) for the period. (June 16, 1945)

#### CANCELLATIONS, RESIGNATIONS, AND DECLINATIONS

The Secretary presented also for record the following list of cancellations, resignations, and declinations.

BETTISON, A. MORSE, Scholar in Mechanical Engineering—declination effective June 20, 1945.

BLATCHFORD, FRANK WICKES, JR., Instructor in Medicine—resignation effective April 27, 1945.

CARLSON, MRS. HELEN BLAKE, Research Assistant in Psychiatry, in the College of Medicine—resignation effective May 1, 1945.

CRAWFORD, MRS. DOROTHY FYE, Junior Clerk-Stenographer in the Comptroller's Office—resignation effective at noon on June 13, 1945.

CROWELL, DOROTHY ADELLE, Assistant File Clerk in the Registrar's Office—resignation effective June 1, 1945.

DEASY, CLARA LOUISE, Special Research Assistant in Chemistry—resignation effective August 1, 1945.

DILLAVOU, HARRIET L., Scholar in History—declination effective May 24, 1945.

EDSON, ALICE R., Scholar in Home Economics—resignation effective May 1, 1945.

EDWARDS, ARTHUR C., Associate in Music—resignation effective September 1, 1945.

ETHEREDGE, MAUDE L., Professor of Hygiene, and Medical Adviser for Women—resignation effective September 1, 1945.

FELDMAN, MRS. ANNETTE YOUNG, Instructor in Foods and Nutrition Extension, in the Department of Home Economics, in the Extension Service in Agriculture and Home Economics—resignation effective August 1, 1945.

FIELDS, MRS. MARGARET OTIS, Exchange Assistant in the Acquisition Department of the Library—resignation effective May 1, 1945.

GALLANT, LEONARD JAY, Assistant in Neurology and Neurological Surgery, in the College of Medicine—resignation effective July 1, 1945.

GRAF, CARL JOHN, Assistant in Neurology and Neurological Surgery, in the College of Medicine—resignation effective June 1, 1945.

HALL, MRS. LAURA M., To give instruction in the Summer Semester of 1945—declination effective June 20, 1945.

HANMER, ROBERT STUART, Research Graduate Assistant in Chemical Engineering, in the Engineering Experiment Station—resignation effective June 1, 1945.

HATCHARD, MRS. MARJORIE COLTON, Assistant in Home Economics, in the College of Agriculture—resignation effective May 1, 1945.

HETRICK, JOHN HENRY, Associate in Dairy Manufactures in the Department of Dairy Husbandry, in the College of Agriculture and in the Agricultural Experiment Station—resignation effective June 1, 1945.

HOLEWAY, STELLA, Staff Nurse in the Research and Educational Hospitals—resignation effective June 27, 1945.

HUFFMAN, WARREN JUSTUS, Instructor in Physical Education for Men—resignation effective May 11, 1945.

HUNT, MARY K., Junior Medical Technologist in the Department of Applied Materia Medica and Therapeutics, in the College of Dentistry—resignation effective at the close of business on May 15, 1945.

KERCHENFAUT, LOIS CAROLYN, Assistant Psychometrist and Research Assistant in the Personnel Bureau—resignation effective June 15, 1945.

KIRELLIS, RAMON WALTER, Assistant in Physical Education for Men—resignation effective July 1, 1945.



KRUGER, JOSEPH, Assistant Stores Clerk in the Military Department—resignation effective June 1, 1945.

LOCKHART, MRS. RUTH IRVIN, Junior Clerk-Stenographer in the Physical Plant Department—resignation effective at the close of business on April 30, 1945.

LUFT, MRS. MARGARET CALHOUN, Junior Clerk-Stenographer in the Department of Physical Education for Women—resignation effective June 5, 1945.

MITCHELL, WINIFRED RUTH, Special Research Assistant in Chemistry—declination effective June 20, 1945.

MOORE, GERALD EVERETT, To give instruction in the Summer Semester of 1945—declination effective June 13, 1945.

MOORE, VERNON ATWOOD, Senior Glassblower in the Department of Pharmacology, Materia Medica, and Therapeutics, in the College of Medicine—cancellation effective January 1, 1945.

MURPHY, ARTHUR EDWARD, Professor of Philosophy and Head of the Department—resignation effective September 1, 1945.

POWELL, DONALD G., Scholar in Chemistry—declination effective June 4, 1945.

PROSIO, FRANCES, Junior Clerk-Stenographer in the Department of Bacteriology and Public Health, in the College of Medicine—resignation effective May 31, 1945.

REITSEMA, MRS. BERNICEJEAN, Junior Clerk-Typist in the Physical Plant Department—resignation effective at noon on June 12, 1945.

RENNER, GEORGIA NEVADA, Assistant Clerk-Stenographer in the Purchasing Division of the Business Office—resignation effective July 1, 1945.

RETZER, JANET LUCILLE, Assistant in Home Economics, in the Agricultural Experiment Station—resignation effective August 1, 1945.

RUMBLE, MARJORIE F., Bibliographer in the Acquisition Department of the Library—resignation effective July 5, 1945.

SAMPSON, JESSE, Professor of Veterinary Physiology, in the Department of Animal Pathology and Hygiene, in the College of Agriculture, and Chief in Veterinary Physiology, in the Agricultural Experiment Station—resignation effective at the close of business on June 30, 1945.

SHIVELY, MRS. RUTH FRIER, Special Research Assistant in Animal Nutrition, in the Department of Animal Husbandry, in the Agricultural Experiment Station—resignation effective July 25, 1945.

SIMPSON, JEAN IRWIN, Associate Professor of Home Economics, in the College of Agriculture, and Associate Chief in Home Economics, in the Agricultural Experiment Station—resignation effective July 1, 1945.

SIMPSON, JEAN IRWIN, To give instruction in the Summer Semester of 1945—declination effective June 14, 1945.

TOKAY, MEHMET N., Special Research Assistant in Theoretical and Applied Mechanics, in the Engineering Experiment Station—resignation effective July 12, 1945.

TUCK, H. KENNETH, Assistant in Physics, in the College of Engineering—resignation effective June 1, 1945.

WALKINGTON, JUNE, Assistant Cashier in the Bursar's Division of the Business Office—resignation effective June 23, 1945.

WILKE, MRS. VIRGINIA WENDT, Assistant Office Appliance Operator in the Accounting Division of the Business Office—resignation effective June 9, 1945.

WOODSON, HAROLD W., Senior Laboratory Assistant in the Department of Biological Chemistry, in the College of Medicine—resignation effective July 1, 1945.

ZAMECNIK, JOHN JAMES, Junior Accountant in the Accounting Division of the Business Office—resignation effective June 23, 1945.

The Board adjourned, to meet on call of the President of the Board.

H. E. CUNNINGHAM  
*Secretary*

PARK LIVINGSTON  
*President*

## MEETING OF THE EXECUTIVE COMMITTEE

JULY 3, 1945

The Executive Committee of the Board of Trustees of the University of Illinois met at the University Club, 76 East Monroe Street, Chicago, at 12:30 p.m. on Tuesday, July 3, 1945. Present, President Livingston, Chairman, and Mr. Davis, member of the Committee; also President A. C. Willard and Secretary H. E. Cunningham, and Mr. Thomas L. Marshall, of the firm of Bell, Boyd, and Marshall, of Chicago.

**EMPLOYMENT OF BERT INGWERSON AS ASSISTANT COACH**

President Willard presented a recommendation from the Athletic Association that Mr. Bert Ingwerson be appointed Assistant Football Coach for one year, effective as soon as he can be released from service in the Navy, at a salary of \$7,000.

President Willard stated that this matter has been thoroughly discussed with Director D. R. Mills and Chairman Waldo Ames of the Board of Directors of the Athletic Association, who concurred in the recommendation.

The Secretary was instructed to get in touch with Mr. McKelvey and Mr. Williamson of the Committee on Athletic Activities and to ascertain their opinion. He reported that Mr. Williamson approved and that Mr. McKelvey could not be reached by telephone.

On motion of Mr. Davis, this appointment was authorized.

**RETAINER OF MR. THOMAS L. MARSHALL**

After a discussion with Mr. Thomas L. Marshall of the request of Dean Thomas E. Benner for a hearing, and of the rules and practice of the University applicable to the appointment of deans and other administrative officers, on motion of Mr. Davis, Mr. Marshall was retained, on a time basis, as special counsel for the Board of Trustees and the University of Illinois in the hearing granted to Dean Benner on his request as announced June 30, 1945. It was agreed that, after reviewing the evidence in the matter, Mr. Marshall should prescribe the procedure of the hearing and should conduct it on behalf of the University.

The Executive Committee adjourned.

H. E. CUNNINGHAM, *Clerk*

PARK LIVINGSTON, *Chairman*  
CHESTER R. DAVIS  
KARL A. MEYER

## TEACHER-TRAINING CURRICULA

(Approved by the Board of Trustees June 30, 1945, Minutes, page 512)

*Administration and Supervision.* Subject to the over-all policies approved by the Senate, each curriculum shall be administered and supervised by the respective Area of Specialization Committee appointed by the University Council on Teacher Education upon nomination of the Chairman of the Council following consultation with the Dean of the College or Director of the School concerned. Each Area of Specialization Committee shall include a representative or representatives from the Colleges and Schools in which students in that area may register. The Council shall consist of the Deans and Directors of the Colleges and Schools which offer teacher-education curricula.

Each Area of Specialization Committee shall be responsible for advising students who enter the curriculum concerned and shall, under the general direction of the University Council on Teacher Education, recommend to the Dean of the College in which students are registered any substitutions that may be necessary for designated courses in a teacher-training curriculum. Colleges and Schools concerned shall register the students, offer the curricula, recommend students for degrees, and retain in their budgets the salaries of such of their faculties as participate in the program.

The interpretation of requirements of the Illinois State Examining Board for Teachers' Certificates shall be made by the Office of the Coordinator of Teacher Education.

The above provisions are adopted as a temporary procedure for administering the teacher-training programs. It is recommended that the Council on Teacher Education proceed immediately, as it has proposed, to study and recommend to the Senate a permanent organization to administer teacher-training programs in the University.

*Changes in a Curriculum.* The University Council on Teacher Education may, on recommendation of the Area of Specialization Committee concerned, substitute, delete, or add courses in a curriculum, such changes to be reported to the departments concerned for their information. Major modifications involving questions of educational policy, of admission requirements, or of graduation requirements shall require Senate approval.

*Substitution, Deletion, and Addition of Minors.* The University Council on Teacher Education may, on recommendation of the Area of Specialization Committee concerned, substitute, delete, or add minors to propose to students as desirable teaching combinations, provided that such actions do not affect admission or graduation requirements.

## CURRICULUM IN VOCATIONAL AGRICULTURE

*For the Degree of Bachelor of Science in Vocational Agriculture*

The purpose of this curriculum is to train young men to teach agriculture in high schools having departments of vocational agriculture. In addition to the training outlined in this curriculum, the present Illinois State Plan for Vocational Education in Agriculture calls for a minimum of two years of practical experience on the farm after reaching the age of sixteen.

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Agr. Econ. 1—Introductory Agricultural Economics.....	3	D.H. 24a—Elementary Dairy Production.....	3
An. Husb. 1—Introduction to Animal Husbandry.....	3	Hort. 1b—Vegetable Crops.....	2
Entom. 1a—Destructive and Useful Insects.....	3	Chem. 1 or 2—Inorganic Chemistry 5 or 3	
Bot. 5—Botany for Students in Agriculture.....	3	Rhet. 2—Rhetoric and Composition.....	3
Rhet. 1—Rhetoric and Composition	3	Hygiene 2 or 5—Elementary Hygiene and Sanitation.....	2
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
<i>Total</i> .....	17	<i>Total</i> .....	15-17

**Second Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Agron. 25—Farm Crops.....	4	An. Husb. 21—Principles of Feeding.....	3
Hort. 1a—Introductory Pomology, Ornamental Gardening.....	3	Agr. Eng. ( <i>new</i> )—Farm Power and Machinery.....	3
Chem. 5—Inorganic Chemistry and Qualitative Analysis.....	5	Psych. 1—Introduction to Psychology.....	4
Ed. 1—The American Public School	2	Agr. Eng. ( <i>new</i> )—Farm Structures and Soil and Water Conservation	3
Military Science (for Men).....	1	Speech 1—Principles of Effective Speaking.....	3
Physical Education.....	1	Military Science (for Men).....	1
		Physical Education.....	1
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>18</u>

**Third Year**

Agr. Econ. 20—Farm Management..	3	Agr. Econ. 30—Marketing of Agricultural Products.....	3
D.H. 33—Dairy Production.....	2	An. Husb. 6—Livestock Management.....	3
Bact. 5a—Introductory Bacteriology.....	3	Agron. 28—Soils.....	5
Zool. 14—Elementary Zoology.....	3	Agr. Eng. ( <i>new</i> )—Farm Home Equipment and Electrification..	3
Geol. 44—Agricultural Geology....	3	Ed. 6b—Principles of Secondary Education.....	3
Ed. 25—Educational Psychology...	3		
<i>Total</i> .....	<u>17</u>	<i>Total</i> .....	<u>17</u>

**Fourth Year**

An. Husb. 37—Poultry Management	3	Pol. Sci. 1a—American Government	3
Agronomy elective.....	3	Agr. Ed. 50—Practice Teaching in Agriculture.....	5
Humanities elective.....	2	Agr. Ed. 51—Programs and Procedures in Agricultural Education	5
Hist. 3b—History of the United States, 1828-1944.....	3	Electives.....	3
Electives.....	5		
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>16</u>

A minimum of 134 hours of credit, counting the first two years of work in military science and physical education, as outlined above, is required for graduation. While students are advised to take courses in the order indicated, they may, with the approval of their advisers, take courses at another time.

Students who complete this curriculum will possess a teaching minor in the biological sciences. Other desirable teaching combinations with agriculture include industrial arts, physical education, physics, a double minor in the biological sciences and chemistry, a double minor in the biological sciences and general science, and a double minor in chemistry and general science.

**Fifth Year***For the Degree of Master of Science in Vocational Agriculture*

UNITS		UNITS	
Agriculture courses with graduate credit.....	2	Agricultural courses with graduate credit.....	2
Ed. 125—Advanced Educational Psychology.....	1	Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives.....	1	Electives.....	1
<i>Total</i> .....	<u>4</u>	<i>Total</i> .....	<u>4</u>

# CURRICULUM IN ART EDUCATION

*For the Degree of Bachelor of Fine Arts in Art Education*

## First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Art 25—Art Form.....	5	Art 26—Art Form.....	5
Arch. 71—Elements of Drawing....	3	Arch. 72—Elements of Drawing....	3
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
Language.....	4	Language.....	4
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
		Hygiene.....	2
<i>Total</i> .....	<u>16-17</u>	<i>Total</i> .....	<u>18-19</u>

## Second Year

Art 27—Life Drawing.....	5	Art 28a—Life Drawing.....	2
Art 32a—Elementary Composition..	2	Art 32b—Elementary Composition	2
Ed. 1—The American Public School	2	Art 41a—Still Life.....	2
Natural Science <sup>1</sup> .....	3	Natural Science <sup>1</sup> .....	3
Physical Education.....	1	Psych. 1—Introduction to	
Military Science (for Men).....	1	Psychology.....	4
Electives <sup>2</sup> .....	4	Physical Education.....	1
		Military Science (for Men).....	1
		Electives.....	3
<i>Total</i> .....	<u>17-18</u>	<i>Total</i> .....	<u>17-18</u>

## Third Year

Art 11—History of Fine Arts.....	3	Art 12—History of Fine Arts.....	3
Art 10a—Art Education Methods..	2	Art 10b—Art Education Methods..	2
Pol. Sci. 1a—American Government	3	Hist. 3b—History of the United	
Ed. 25—Educational Psychology....	3	States, 1828-1944.....	3
Speech 1—Principles of Effective		Ed. 6b—Principles of Secondary	
Speaking.....	3	Education.....	3
Electives.....	3	Electives.....	4
<i>Total</i> .....	<u>17</u>	<i>Total</i> .....	<u>17</u>

## Fourth Year

Art 15—History of Art and Cul- ture—Italian Renaissance.....	2	Art 18—History of Art and Cul- ture—Modern Period.....	2
Art 61—Patterns and Lettering....	3	Art 70b—Advanced Craft	
Ed. 10b—Technic of Teaching in the		Materials and Technics.....	4
Secondary School.....	3	Art 2a—Water Color.....	2
Ed. Prac. 9—Practice Teaching of		Electives.....	8
Art.....	5		
Electives.....	3		
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>16</u>

The courses outlined above total 134 to 138 hours. A minimum of 130 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

<sup>1</sup> Botany, zoology, chemistry, physics, geology, geography, biology, general science, mathematics (excluding arithmetic), and physiology, or their equivalents in integrated courses.

<sup>2</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. Desirable teaching combinations with art include English, French, industrial arts, Latin, and music.

**Fifth Year***For the Degree of Master of Fine Arts in Art Education*

	HOURS		HOURS
Art 17—History of Art and Culture —Renaissance in France, Spain, and England.....	2	Art 16—History of Art and Culture —Renaissance in the Low Coun- tries and Germany.....	2
Art 75—Industrial Design; <i>or</i> Art 29a—Figure Drawing and Sketch	3	Art 62—Patterns and Lettering...	3
Ed. 68—Curriculum Problems and Trends in Art Education.....	4	Art 75—Industrial Design; <i>or</i> Art 29a—Figure Drawing and Sketch; <i>or</i> Art 34a—Advanced Composi- tion.....	3-4
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	4	Ed. 125—Advanced Educational Psychology.....	4
Electives.....	4	Electives.....	4-5
<i>Total</i> .....	17	<i>Total</i> .....	16-17

**Undergraduate Minor in Art Education**

	HOURS
Art 10b—Art Education Methods.....	2
Art 11-12—History of Fine Arts.....	6
Art 25a—Drawing and Design.....	2
Art 25b—Figure Drawing and Clay Modeling.....	2
Art 27a—Life Drawing.....	2
Art 32a—Elementary Composition.....	2
Art 70a—Craft Materials and Techniques.....	2
<i>Total</i> .....	18

**CURRICULUM PREPARATORY TO THE  
TEACHING OF BIOLOGY***For the Degree of Bachelor of Science in the Teaching of the  
Biological Sciences and General Science*

For students preparing to teach biology with a "double major" in biology (24 hours in zoology, 21 in botany) and 10-hour minors in both physics and chemistry.

**First Year**

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
Foreign Language.....	4	Foreign Language.....	4
Zool. 1—General Zoology.....	5	Bot. 1a and 1b—Introductory	
Math. 2—College Algebra.....	3	Botany.....	5
Military Science (for Men).....	1	Entom. 1a and 1b—Destructive and Useful Insects.....	5
Physical Education.....	1	Military Science (for Men).....	1
Hygiene 2 or 5—Hygiene and Sani- tation.....	2	Physical Education.....	1
<i>Total</i> .....	19	<i>Total</i> .....	19

**Second Year**

Ed. 1—The American Public School	2	Chem. 5—Inorganic Chemistry and Qualitative Analysis.....	5
Bot. 3—Plant Physiology.....	5	Bact. 5a and 5b—Introductory	
Psych. 1—Introduction to Psychology.....	4	Bacteriology.....	5
Chem. 1 or 2—Inorganic Chemistry 5 or 3		Math. 4—Plane Trigonometry....	2
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
		Electives.....	2
<i>Total</i> .....	16-18	<i>Total</i> .....	16

**Third Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Phys. 1a and 3a—General Physics (Mechanics, Sound, and Heat)...	5	Phys. 1b and 3b—General Physics (Electricity, Magnetism, and Light).....	5
Pol. Sci. 1a—American Government	3	Bot. 6—Introductory Systematic Botany.....	3
Ed. 25—Educational Psychology...	3	Hist. 3b—History of the United States, 1828-1944.....	3
Physiol. 1a—Mammalian Physiology.....	5	Entom. 9—Collection and Classifi- cation of Insects.....	3
		Electives.....	1-2
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>15-16</u>

**Fourth Year**

Zool. 17—Field Zoology.....	3	Speech 1—Principles of Effective Speaking; <i>or</i> Speech 10—Oral Interpretation of Literature.....	2
Zool. 11—Animal Ecology and Geography.....	3	Ed. 10b—Technic of Teaching in the Secondary Schools.....	3
Bot. 22—General Plant Morphology	3	Ed. Prac. 6—Practice Teaching of Biology.....	5
Ed. 6b—Principles of Secondary Education.....	3	Electives.....	<u>5-6</u>
Electives.....	3	<i>Total</i> .....	<u>15-17</u>
<i>Total</i> .....	<u>15</u>		

The courses outlined above total 131 to 136 hours. A minimum of 123 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

*Electives.*—Chemistry 33 (Elementary Organic Chemistry) is strongly recommended.

The electives would be increased or decreased according to the student's high school credits in mathematics and foreign languages.

Eight hours or more of the electives of the fourth year should be devoted to geography (physiography and meteorology) if the candidate expects to teach general science in addition to biology.

If the candidate wishes to combine the teaching of physical education and biology, it is recommended that he complete the following courses: Physiology 3a-3b (10 hours), Botany 1a-1b (5 hours), and Zoology 1 (5 hours).

**Fifth Year**

*For the Degree of Master of Science in the Teaching of the  
Biological Sciences and General Science*

Eight units of work as listed below are required. Courses must be selected with the consent of the adviser, who will see that the candidate strengthens areas in which he is weakest. No thesis is required. A course in Biological Chemistry and one in Experimental Psychology are strongly advised.

	UNITS
Biological Sciences.....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 31—History of American Education.....	1
Electives.....	<u>2</u>
<i>Total</i> .....	<u>8</u>

**Biology as a First Undergraduate Minor**

	HOURS
Zool. 1—General Zoology.....	5
Bot. 1a-1b—Introductory Botany.....	5
Bact. 5a-5b—Introductory Bacteriology.....	5
Entom. 1a-1b—Destructive and Useful Insects.....	<u>5</u>
<i>Total</i> .....	<u>20</u>

**Biology as a Second Undergraduate Minor**

	HOURS
Zool. 1—General Zoology.....	5
Bot. 1a-1b—Introductory Botany.....	5
Entom. 1a—Destructive and Useful Insects.....	3
Physiol. 1—Mammalian Physiology.....	3
<i>Total</i> .....	16

**General Science as an Undergraduate Minor**

Phys. 10—General Physics.....	8
Chem. 1 or 2—Inorganic Chemistry.....	5 or 3
Zool. 1—General Zoology.....	5
Bot. 1a-1b—Introductory Botany.....	5
Geog. 1a—Elements of Geography.....	3
<i>Total</i> .....	24-26

**CURRICULUM PREPARATORY TO THE  
TEACHING OF CHEMISTRY**

*For the Degree of Bachelor of Science in the Teaching of Chemistry*

For students preparing to teach physical science with a major in chemistry and with minors in physics and mathematics.

**First Year**

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
Math. 10a—Combined Freshman Mathematics.....	5	Math. 10b—Combined Freshman Mathematics.....	4
Military Science (for Men).....	1	Chem. 6—Inorganic Chemistry....	5
Physical Education.....	1	Military Science (for Men).....	1
		Physical Education.....	1
<i>Either</i>			
{ Chem. 1—Inorganic Chemistry....	5	Hygiene 2 or 5—Hygiene and	
{ Elective.....	3	Sanitation.....	2
<i>Or</i>			
{ Chem. 2—Inorganic Chemistry....	3	Electives.....	2
{ Hygiene 2 or 5—Hygiene and			
{ Sanitation.....	2		
{ Electives.....	3		
<i>Total</i> .....	18	<i>Total</i> .....	16

**Second Year**

Chem. 10—Qualitative Analysis....	5	Chem. 24—Quantitative Analysis..	5
Ed. 1—The American Public School	2	Psych. 1—Introduction to	
Foreign Language.....	4	Psychology.....	4
Math. 8a—Calculus.....	3	Foreign Language.....	4
Physical Education.....	1	Math. 8b—Calculus.....	3
Military Science (for Men).....	1	Physical Education.....	1
		Military Science (for Men).....	1
<i>Total</i> .....	16	<i>Total</i> .....	18

**Third Year**

Chem. 33—Elementary Organic Chemistry; or Chem. 34—Organic Chemistry.....	5	Chem. 40-41—Elementary Physical Chemistry.....	4
Phys. 1a and 3a—General Physics (Mechanics, Sound, and Heat)...	5	or Chem. 50—Biochemistry....	(5)
Pol. Sci. 1a—American Government	3	Phys. 1b and 3b—General Physics (Electricity, Magnetism, Light)	5
Ed. 25—Educational Psychology....	3	Ed. 6b—Principles of Secondary Education.....	3
		Hist. 3b—History of the United States, 1828-1944.....	3
<i>Total</i> .....	16	<i>Total</i> .....	15-16



**Fourth Year**

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Phys. 14a—Intermediate Mechanics, Heat, and Sound.....	5	Chem. 94b—Teachers' Course.....	2
Math. 40a—Fundamental Concepts of Mathematics.....	3	Ed. Prac. 7—Practice Teaching of Chemistry.....	5
Speech 1—Principles of Effective Speaking; <i>or</i> Speech 10—Oral Interpretation of Literature.....	2	Phys. 14b—Intermediate Electricity, Magnetism, and Light... 5	
Electives.....	6	Ed. 10b—Technic of Teaching in the Secondary School.....	3
<i>Total</i> .....	16-17	Electives.....	2
		<i>Total</i> .....	17

The courses outlined above total 132 to 134 hours. A minimum of 125 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

*Notes.*—Geology 20 (General Mineralogy) is strongly recommended.

If the student has not had adequate high-school training in mathematics, he may be required to take Mathematics 1 or other elementary mathematics.

If the student has had no foreign language in high school or if he does not continue in the University the same language which he began in high school, it will be necessary for him to take two years of foreign language rather than the one year specified above.

**Fifth Year***For the Degree of Master of Science in the Teaching of Chemistry*

Eight units of work are required including four in chemistry, two in education, and two in electives. Courses must be selected with the consent of the adviser, who will see that the candidate strengthens areas in which he is weakest. No thesis is required.

	UNITS
Chemistry.....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	8

*For the Degree of Master of Science in the Teaching of the Physical Sciences*

A special program leading to the degree of Master of Science in the Physical Sciences is available to meet the needs of students who wish to study in both chemistry and physics rather than to specialize in one department. It is designed primarily for those preparing to teach the physical sciences in high school. Students working toward a degree under the provisions of this program are expected to seek approximately equal proficiency in both physics and chemistry; those whose undergraduate work has emphasized chemistry should balance this by weighting the graduate work in favor of physics, and vice versa. No thesis is required, and all courses in physics and chemistry which normally give graduate credit will carry credit toward the degree. To qualify for the degree, a student must have had, or must include in his program, at least one course in mathematics beyond the calculus, and for which the calculus is prerequisite.

	UNITS
Physical Sciences.....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	8

**Undergraduate Minor in Chemistry**

	HOURS
Chem. 1 or 2—Inorganic Chemistry.....	5 or 3
Chem. 5—Inorganic Chemistry and Qualitative Analysis	5
Chem. 22—Elementary Quantitative Analysis.....	5
Chem. 33—Elementary Organic Chemistry.....	5
<i>Total</i> .....	18-20

# CURRICULUM PREPARATORY TO COMMERCIAL TEACHING

*For the Degree of Bachelor of Science in Commercial Teaching<sup>1</sup>*

## First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
D.G.S. 1a—Verbal Expression <sup>2</sup> .....	4	D.G.S. 1b—Verbal Expression <sup>2</sup> ....	4
B.O.O. 12a—Typing <sup>3</sup> .....	2	B.O.O. 12b—Typing <sup>3</sup> .....	2
B.O.O. 13a—Shorthand <sup>3</sup> .....	2	B.O.O. 13b—Shorthand <sup>3</sup> .....	2
Accy. 1a—Principles of Accounting..	3	Hygiene.....	2
Math. 2 or 3—Algebra; <i>or</i> B.O.O. 5		Accy. 1b—Accounting Procedure..	3
—Business Computations <sup>4</sup> .....	3	Math. 2, 3, or 4, <i>or</i> approved selec-	
Military Science (for Men).....	1	tion in natural science.....	3
Physical Education.....	1	Military Science (for Men).....	1
		Physical Education.....	1
<i>Total</i> .....	<u>15-16</u>	<i>Total</i> .....	<u>17-18</u>

## Second Year

B.O.O. 12c—Typing.....	2	B.O.O. 45—Office Organization and	
B.O.O. 13c—Shorthand.....	2	Management.....	3
Accy. 2a—Elementary Cost		Accy. 2b—Intermediate Accounting	3
Accounting.....	3	Rhet. 10—Business Letter Writing	2
Econ. 1—Principles of Economics..	5	Psych. 1—Introduction to	
Ed. 1—The American Public School	2	Psychology.....	4
Military Science (for Men).....	1	Electives.....	3
Physical Education.....	1	Military Science (for Men).....	1
		Physical Education.....	1
<i>Total</i> .....	<u>15-16</u>	<i>Total</i> .....	<u>16-17</u>

## Third and Fourth Years

	HOURS
I. American Literature or approved selections in other Humanities...	4
II. Education (Prescribed by the State of Illinois):	
Ed. 25—Educational Psychology.....	3
Ed. 10b—Technic of Teaching in the Secondary School.....	3
Ed. 6b—Principles of Secondary Education.....	3
Ed. Prac. 24—Stenography and Typing; <i>or</i> Ed. Prac. 26—Book-	
keeping; <i>or</i> Ed. Prac. 27—Economics; <i>or</i> Ed. Prac. 29—	
Geography.....	5
<i>Total, Education</i> .....	<u>14</u>
III. Prescribed in Commerce:	
Bus. Law 1a-1b.....	6
B.O.O. 2—Marketing.....	3
B.O.O. 7—Salesmanship.....	2
Econ. 26—Economic Resources.....	3
<i>Total, Prescribed in Commerce</i> .....	<u>14</u>
IV. Selections in Commerce.....	5
V. Hist. 3b and Pol. Sci. 1a (Prescribed by the State of Illinois)....	6
VI. For approved selected courses to complete teaching minors, to add	
new teaching minors, or for other approved courses consistent	
with the objectives of the program.....	<u>20-24</u>
<i>Total, Third and Fourth Years</i> .....	<u>63-67</u>
<i>Total for the Four-Year Curriculum</i> .....	<u>130</u>

<sup>1</sup> Each student is required to serve, prior to graduation from this curriculum, an approved internship of at least 300 hours in an office or business.

<sup>2</sup> A student may offer Rhetoric 1 and 2 (6 hours) and Speech 1 (3 hours) in lieu of D.G.S. 1a and 1b (8 hours).

<sup>3</sup> Students who have had training in shorthand<sup>2</sup> and typing may take proficiency examinations in these subjects for credit. Shorthand and typing are recommended for commercial teachers, but with the permission of the Dean of the college in which the student is registered other courses in the College of Commerce may be substituted.

<sup>4</sup> Unless the student intends to acquire a teaching minor in mathematics, he should choose Business Computations (B.O.O. 5) in preparation for teaching Business Arithmetic in high school.

### Illinois Certification Requirements

A student who has followed the above program through the first four years will have met the Illinois Certification requirements, as indicated in the following tabulation:

	University Requirements	State Requirements
I. General Education.....	42 hours	35 hours
II. Commerce major (prepares for teaching shorthand, typing, bookkeeping, business law, distribution, and general business training).....	51-54 hours	32 hours
III. Teaching minor (not required for commercial teaching in junior colleges).....	One	One

(Students preparing to teach commercial work in high schools should acquire a minor selected (with approval) from the following list: mathematics; English; non-historical social studies; geography; music; home economics; industrial arts; physical education.)

### Fifth Year

#### *For the Degree of Master of Science in Commercial Teaching*

- I. *Economics*.—A sufficient number of hours in approved advanced undergraduate and graduate courses in Economics must be taken to bring the total credit hours in this subject to not less than 17 for the five years.
- II. *Business Organization and Operation*.—A sufficient number of hours in approved advanced undergraduate and graduate courses in Business Organization and Operation must be taken to bring the total credit hours in this group of subjects to not less than 17 for the five years, including Business Law and excluding B.O.O. 5.
- III. *Accountancy*.—A sufficient number of hours in approved advanced undergraduate and graduate courses in Accountancy must be taken to bring the total credit hours in this subject to not less than 17 for the five years, excluding Accy. S15.
- IV. *Education*.—Ed. 101 or Ed. 30, and Ed. 125.
- V. *Commerce*.—Sufficient work must be taken in the fifth year in courses recognized for graduate credit to bring the total hours in commerce courses to not less than 60 for the five years.
- VI. *Selections*.—Nine hours of approved advanced undergraduate and graduate courses having general educational value, and of courses which bear directly on subjects taught in high schools.
- VII. *Summary*.—The requirements of I-V, above, can be satisfied with a minimum of 23 hours of credit; with the 9 hours of electives (VI), this makes a total of 32 hours in the fifth year, or 162 hours for the five-year program.

The maximum *required* credit hours for selections of the third, fourth, and fifth years in Commerce fields are as follows: Business Organization and Operation (including Business Law), 6 hours; Economics, 9 hours; Accountancy, 5 hours.

### Undergraduate Commerce Minors for Non-Commerce Students

- I. Shorthand and Typing:
 

<i>Required:</i>	HOURS
B.O.O. 12a-c—Typing.....	6
B.O.O. 13a-c—Shorthand.....	6
Rhet. 10—Business Letter Writing.....	2
B.O.O. 45—Office Organization and Management.....	3
<i>Total</i> .....	17
- II. Bookkeeping:
 

<i>Required:</i>	
Accountancy 1c, or 1a and 1b, 2a, and 2b.....	11-12
<i>Elective:</i>	
Accountancy 3a; Business Law 1a, 1b; B.O.O. 2, 5.....	4
<i>Minimum Total</i> .....	16

## III. General Commerce Minor:

*Required:*

Accountancy 1a, 1b.....	6
Business Law 1a, 1b.....	6
B.O.O. 5.....	3
Economic or Commercial Geography.....	5
<i>Total</i> .....	20

**Proposed New Courses**

- B.O.O. 12a-c. **TYPEWRITING.**—A continuous course for three semesters. Organized primarily for students in the Commercial Teaching field of concentration. To be taken concurrently with shorthand.
- B.O.O. 13a-c. **SHORTHAND.**—A continuous course for three semesters. Organized primarily for students in the Commercial Teaching field of concentration. The Gregg System is used. To be taken concurrently with typewriting.
- Econ. 26. **ECONOMIC RESOURCES.**—A study of each of the more important resources of the world. Emphasis on human geography.
- B.O.O. 45. **OFFICE ORGANIZATION AND MANAGEMENT.**—Principles of office administration, office location, layout, and equipment, methodizing means of communication, control of correspondence and related activities, work of the business departments, training and development of office workers.

### CURRICULA PREPARATORY TO THE TEACHING OF ENGLISH AND SPEECH

The administration of the curricula in English and Speech will be entrusted to a committee, or perhaps two committees, appointed by the University Council on Teacher Education, on the training of teachers in Speech and English. The committee, or committees, shall be responsible for advising students who enter the curricula and shall, under the general direction of the University Council on Teacher Education, recommend to the Dean of the college in which the students are registered adequate substitutions for required courses.

**Summary of Requirements****ENGLISH**

The following courses and electives will constitute the program in the major subject:

Engl. 23—Shakespeare.....	3
Rhet. 3—Exposition.....	3
Engl. 16—Modern English Grammar.....	3
Lib. Sci. 7—Reading Guidance in Adolescent Literature.....	4
Journ. 47—High School Journalism.....	3
American Literature.....	4
English 55a-55b—Survey of English Literature.....	6
Electives.....at least	10 <sup>1</sup>
<i>Total</i> .....	36 <sup>2</sup>

Five hours of speech will be required of all English-teaching majors, except that the requirements here stated will be waived for students who elect Speech as a minor teaching subject. Two of these hours must be in Speech 10 (Oral Interpretation of Literature). The other three must be taken from one of two new courses, designated temporarily as: Speech X (Fundamentals of

<sup>1</sup> Six of these hours must be in courses restricted to advanced undergraduates.

<sup>2</sup> The list of courses given here is purely tentative. It is necessary that an agreement be reached so that the advisers of future teachers in English have a definite understanding of the restrictions under which they must work. The Committee believes that substitutes, perhaps combined courses, may be found to take the place of Library Science 7, Journalism 47, Political Science 1a, American History 3b, and Education 69. The Committee would like to see a new reading course which would give the training now available only through Library Science 7 and Education 69. Political Science 1a and History 3b are being used until special courses are created to take their place. All of these courses give training that administrators and teachers in high school consider essential. At present, these seem to be the only courses through which the prospective teacher may get this training.

Speech, i.e., the recognition of speech defects, panel discussion and debate, assembly and classroom speaking, radio broadcasting), and Speech Y (Theatre Arts, i.e., an introduction to the problems of play production, with practical experience on Theatre Guild crews).

Six hours of natural science are required for state certification. In addition, the student must take Psychology 1 as a prerequisite to Education 25. The English Department recommends that the College of Liberal Arts and Sciences reduce the Science requirements for students in Speech and English teacher-training curricula to ten hours. The training of a high-school teacher is a more complex problem in the field of English than in any other field. For one thing, he has a double subject—literature and composition. For another, there are the duties which he is almost invariably called on to perform in small schools—supervision of the library, of dramatics, of the school annual, of formal speeches—in preparation for which he would like to take something in Journalism, in Library Science, and in Remedial Reading. Furthermore, the requirement of fifteen hours in science (however good in itself) is disproportionate to the six hours in social science (required for certification, but not required at all by the College), especially in view of the fact that the whole six hours may be earned in the required subject of American history and government. We would like to give our teachers as broad an education as possible. The more a curriculum is encumbered with large fixed blocks of subject matter, the more difficult it is to achieve this purpose.

With these preliminaries, the English curriculum may be summarized as follows:

	HOURS
I. Major subject (as above).....	36
II. Speech (10 and X or Y).....	5
III. Natural Science.....	6
Psychology 1.....	4
(The courses in Biological Science and Physical Science in the Division of General Studies are especially recommended)	
IV. Social Science.....	6
(Probably filled by the new course in American history and government; otherwise Political Science 1a and American History 3b <sup>1</sup> )	
V. Professional courses in Education:	
Education 25.....	3
Education 6b.....	3
Education 10b.....	3
Educational Practice II.....	5
Education 69 <sup>1</sup> .....	3
Education I.....	2
Total.....	19
VI. Teaching Minor.....	16
VII. Requirements for graduation in Liberal Arts and Sciences:	
1. Freshman Rhetoric (Rhet. 1-2 or Verbal Expression).....	6-8
2. Foreign language (if begun in college).....	16
3. A third subject in liberal arts (with English and History).....	3 <sup>2</sup>
4. Hygiene.....	2
5. Physical Education.....	0
Total.....	27-29
VIII. Electives.....	6-8
Total.....	126-130

A minimum of 128 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

<sup>1</sup> See footnote 2 on preceding page.

<sup>2</sup> If the student takes both Political Science and History the requirement is automatically met.

The student preparing for certification as an English teacher will present a teaching minor in place of his college minor. Desirable teaching combinations with English include art and music, and double minors in French and Latin; German and Latin; history and music; history and physical education; home economics and physical education; Latin and music; Latin and physical education; Latin and Spanish; music and physical education; speech and history; speech and Latin; speech and music; speech and physical education; journalism and history; journalism and Latin.

#### SPEECH

The Speech curriculum follows the English curriculum, except that (1) 35 hours in Speech are required instead of the 36 hours of English courses, and (2) Education 69 is not required. The required courses in Speech are as follows:

	HOURS
Speech 1—Principles of Effective Speaking.....	3
Speech 3—Argumentation.....	3
Speech 6—Persuasion.....	3
Speech 8—Fundamentals of Acting.....	3
Speech 10—Oral Interpretation of Literature.....	2
Speech 11—Elements of Stagecraft.....	4
Speech 12—Teaching of Speech (an additional hour of credit is being recommended).....	3
Speech 14a—Speech Correction and Clinical Practice.....	5
Speech 16—Play Directing.....	3
Speech 18—Pronunciation.....	3
Speech 19—Speech Science.....	3
<i>Total</i> .....	35

The above program is designed to give the teacher a foundation in three areas of instruction: public speaking, theatre arts, and remedial speech.

### CURRICULUM PREPARATORY TO THE TEACHING OF ENGLISH

*For the Degree of Bachelor of Arts in the Teaching of English*

#### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Rhet. 1—Rhetoric and Composition or D.G.S. 1a—Verbal Expression..	3 (4)	Rhet. 2—Rhetoric and Composition or D.G.S. 1b—Verbal Expression	3 (4)
Foreign Language.....	4 <sup>1</sup>	Foreign Language.....	4 <sup>1</sup>
Mathematics or Science.....	3 <sup>2</sup>	Mathematics or Science.....	3 <sup>2</sup>
Hygiene 2 or 5—Hygiene and Sanitation.....	2	Military Science (for Men).....	1
Military Science (for Men).....	1	Physical Education.....	1
Physical Education.....	1	Electives <sup>3</sup> .....	5
Electives <sup>3</sup> .....	3		
<i>Total</i> .....	16-18	<i>Total</i> .....	16-18

<sup>1</sup> A reading knowledge of a foreign language (French, German, Greek, Italian, Latin, Portuguese, or Spanish) equivalent to that resulting from four semesters of study of a foreign language commenced in college is required. This requirement is satisfied by passing French 2b, German 5 or 6, Greek 4, Italian 2b, Latin 1a, Portuguese 2b, Spanish 2b, or a more advanced course in any of these languages. *Note:* No credit toward graduation is given for a beginning course in a foreign language unless it is continued through a full year.

<sup>2</sup> Six semester hours of Natural Science are required. The courses in Biological Science and Physical Science in the Division of General Studies are especially recommended.

<sup>3</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, beginning teachers may need to complete a second teaching minor of 16 semester hours. Desirable teaching combinations with English include art, music; and double minors in French and Latin; German and Latin; history and music; history and physical education; home economics and physical education; Latin and music; Latin and physical education; Latin and Spanish; music and physical education; speech and Latin; speech and music; speech and physical education; journalism and history; journalism and Latin; speech and history.

**Second Year<sup>1</sup>**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Engl. 12—American Literature.....	3	Engl. 13—American Literature....	3
Engl. 23—Shakespeare.....	3	Pol. Sci. 1a—American Government	3
Ed. 1—The American Public School	2	Psych. 1—Introduction to	
Foreign Language.....	4 <sup>2</sup>	Psychology.....	4
Electives.....	3	Foreign Language.....	4 <sup>3</sup>
Speech Electives.....	3	Electives.....	3
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
<i>Total</i> .....	19-20	<i>Total</i> .....	18-19

**Third Year**

Engl. 16—Modern English Grammar	3	English electives <sup>4</sup> .....	6
English electives <sup>4</sup> .....	4	Ed. 6b—Principles of Secondary	
Ed. 25—Educational Psychology....	3	Education.....	3
Speech 10—Oral Interpretation of		Lib. Sci. 7—Reading Guidance in	
Literature.....	2	Adolescent Literature.....	4
Hist. 3b—History of the United		Rhet. 3—Exposition.....	3
States, 1828-1944.....	3		
Electives.....	3		
<i>Total</i> .....	18	<i>Total</i> .....	16

**Fourth Year**

Engl. 55a—Survey of English		Engl. 55b—Survey of English	
Literature.....	3	Literature.....	3
Ed. 69—Principles and Methods in		Ed. 10b—Technic of Teaching in	
Remedial Reading.....	3	the Secondary School.....	4
Journ. 47—High School Journalism	3	Ed. Prac. 11—Practice Teaching	
Electives.....	9	of English.....	5
		Electives.....	5
<i>Total</i> .....	18	<i>Total</i> .....	17

The courses outlined above total 138 to 144 hours, including 8 hours of physical education and military science for men. A minimum of 128 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

**Fifth Year***For the Degree of Master of Arts in the Teaching of English*

UNITS		UNITS	
English.....	2	English.....	2
Ed. 125—Advanced Educational		Ed. 30—History of American Edu-	
Psychology.....	1	cation; or Ed. 101—Philosophy of	
Electives.....	1	Education.....	1
		Electives.....	1
<i>Total</i> .....	4	<i>Total</i> .....	4

**Undergraduate Minor in English**

Rhet. 1 and 2—Rhetoric and Composition.....	6
or D.G.S. 1a-1b—Verbal Expression.....	(8)
Engl. 12-13—American Literature.....	6
Rhet. 3—Exposition.....	3
Engl. 55a-55b—Survey of English Literature.....	6
<i>Total</i> .....	21-23

<sup>1</sup> Before the close of the sophomore year, each student will be given a list of a dozen or more important books to read and digest during the last two summers of registration. In the course of the senior year, the department will test the student's knowledge of these books, by conferences, or examination, or other means yet to be decided on.

<sup>2</sup> See footnote 1 on preceding page.

<sup>3</sup> Six of the ten hours of English electives must be in courses restricted to advanced undergraduates.

## CURRICULUM PREPARATORY TO THE TEACHING OF SPEECH

*For the Degree of Bachelor of Arts in the Teaching of Speech*

### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Speech 1—Principles of Effective Speaking.....	3	Speech 10—Oral Interpretation of Literature.....	2
Rhet. 1—Rhetoric and Composition or D.G.S. 1a—Verbal Expression..	(4)	Rhet. 2—Rhetoric and Composition or D.G.S. 1b—Verbal Expression (4)	3
Foreign Language <sup>1</sup> .....	4	Foreign Language <sup>1</sup> .....	4
Science or Mathematics <sup>2</sup> .....	3	Science or Mathematics <sup>2</sup> .....	3
Military Science (for Men).....	1	Hygiene 2 or 5—Hygiene and Sanitation.....	2
Physical Education.....	1	Military Science (for Men).....	1
Electives <sup>3</sup> .....	2	Physical Education.....	1
<i>Total</i> .....	16-18	<i>Total</i> .....	15-17

### Second Year

Speech 8—Fundamentals of Acting..	3	Speech 3—Argumentation.....	3
Foreign Language <sup>1</sup> .....	4	Psych. 1—Introduction to Psychology.....	4
Ed. 1—The American Public School	2	Foreign Language <sup>1</sup> .....	4
Pol. Sci. 1a—American Government	3	Hist. 3b—History of the United States, 1828-1944.....	3
English Literature elective <sup>4</sup> .....	3	Military Science (for Men).....	1
Military Science (for Men).....	1	Physical Education.....	1
Physical Education.....	1	Electives.....	3
<i>Total</i> .....	16-17	<i>Total</i> .....	18-19

### Third Year

Speech 11—Elements of Stagecraft..	4	Speech 6—Persuasion.....	3
Speech 18—Pronunciation.....	3	Speech 16—Play Directing.....	3
Speech 19—Speech Science.....	3	Ed. 6b—Principles of Secondary Education.....	3
Ed. 25—Educational Psychology...	3	English Literature elective <sup>4</sup> .....	3
English Literature elective <sup>4</sup> .....	3	Electives.....	5
<i>Total</i> .....	16	<i>Total</i> .....	17

### Fourth Year

Speech 14a—Speech Correction....	3	Speech 12—Teaching of Speech... 3	
Speech Clinical Practice 1.....	2	Ed. 10b—Technic of Teaching in the Secondary Schools <sup>5</sup> .....	4
Electives.....	12	Ed. Prac. 11a—Practice Teaching of Speech <sup>5</sup> .....	5
<i>Total</i> .....	17	Electives.....	5
		<i>Total</i> .....	17

<sup>1</sup> A reading knowledge of a foreign language (French, German, Greek, Italian, Latin, Portuguese, or Spanish) equivalent to that resulting from four semesters of study of a foreign language commenced in college. This requirement is satisfied by passing French 2b, German 5 or 6, Greek 4, Italian 2b, Latin 1a, Portuguese 2b, Spanish 2b, or a more advanced course in any of these languages. *Note:* No credit toward graduation is given for a beginning course in a foreign language unless it is continued through a full year.

<sup>2</sup> Six semester hours of natural science are required. The courses in biological science and physical science in the Division of General Studies are especially recommended.

<sup>3</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, beginning teachers of speech may need to complete a second teaching minor of 16 semester hours.

<sup>4</sup> The following courses in English Literature are especially recommended: English 10a, 10b, 23, 16, and 45.

<sup>5</sup> May be taken during first semester.



The courses outlined above total 132 to 138 hours. A minimum of 128 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

### Fifth Year

#### *For the Degree of Master of Arts in the Teaching of Speech*

#### A. PUBLIC SPEAKING

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Speech 121a—Rhetorical Theory...	1	Speech 121b—Rhetorical Theory...	1
Ed. 125—Advanced Educational Psychology.....	1	Speech ( <i>new</i> )—History of American Oratory.....	1
Electives.....	2	Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
		Electives.....	1
<i>Total</i> .....	4	<i>Total</i> .....	4

#### B. THEATRE ARTS

Speech 22—History of the Theatre...	1	Speech 21—Theories of Play Production.....	1
Speech ( <i>new</i> )—Seminar in Play Direction.....	1	Speech ( <i>new</i> )—Seminar in Play Production.....	1
Ed. 125—Advanced Educational Psychology.....	1	Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives <sup>1</sup> .....	1	Electives <sup>1</sup> .....	1
<i>Total</i> .....	4	<i>Total</i> .....	4

#### Undergraduate Minor in Speech

	HOURS
Speech 1—Principles of Effective Speaking.....	3
Speech 10—Oral Interpretation of Literature.....	2
Speech 3—Argumentation.....	3
Speech 8—Fundamentals of Acting.....	3
Speech 12—Teaching of Speech.....	3
Speech 18—Pronunciation.....	3
<i>Total</i> .....	17

### CURRICULA RECOMMENDED FOR PROSPECTIVE SECONDARY SCHOOL TEACHERS OF FOREIGN LANGUAGES: LATIN, FRENCH, GERMAN, AND SPANISH

The following curricula have two principal objects in view: (1) to define a standard for the amount and kind of work in foreign languages recommended for all prospective teachers of the various languages; (2) to acquaint the prospective teacher with closely related fields of knowledge.

These curricula are planned specifically to satisfy the requirements for the Limited State High School Certificate. At the same time they are designed to meet existing demands for certain combinations of teaching subjects which the beginning teacher is likely to be called upon to offer and for which he would need to be certified. The curricula fulfill present graduation requirements of the University of Illinois.

<sup>1</sup> Recommended electives are other advanced courses in Speech; English 5, 35, 36, 45, 130, 147; Music 28; Greek 17.

# CURRICULUM PREPARATORY TO THE TEACHING OF LATIN

*For the Degree of Bachelor of Arts in the Teaching of Latin<sup>1</sup>*

## First Year

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Latin 6—Cicero; or Latin 1a—Ovid <sup>2</sup>	4	Latin 1b—Vergil	4
Rhet. 1 <sup>3</sup> —Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
Laboratory Science	5	Science or Mathematics	3
Military Science (for Men)	1	Military Science (for Men)	1
Physical Education	1	Physical Education	1
Electives <sup>4</sup>	4	Hygiene 2 or 5—Hygiene and Sanitation	2
		Electives	4
<i>Total</i>	<u>17-18</u>	<i>Total</i>	<u>17-18</u>

## Second Year

Latin 12a—Plautus, Terence, and Catullus	4	Latin 12b—Sallust and Cicero's <i>De Senectute</i>	4
Latin 5a—Composition	2	Latin 5b—Composition	2
Ed. 1—The American Public School	2	Psych. 1—Introduction to Psychology	4
Speech 1—Principles of Effective Speaking	3	Hist. 3b—History of the United States, 1828-1944	3
or Speech 10—Oral Interpretation of Literature	(2)	Military Science (for Men)	1
Military Science (for Men)	1	Physical Education	1
Physical Education	1	Electives	3-4
Electives	5		
<i>Total</i>	<u>16-18</u>	<i>Total</i>	<u>17-19</u>

## Third Year

Latin 3—Lucretius and Horace	3	Latin 4—Horace's <i>Satires</i> and Vergil's <i>Eclogues</i>	3
Pol. Sci. 1a—American Government	3	Latin 10—Composition	2
Ed. 25—Educational Psychology	3	Latin 13—Roman Private Life	1
Electives	7	Latin 56—History of the Roman Republic	3
		Electives	7
<i>Total</i>	<u>16</u>	<i>Total</i>	<u>16</u>

## Fourth Year

Latin 20—Mythology of Greece and Rome	2	Ed. Prac. 17—Practice Teaching of Latin	5
Ed. 6b—Principles of Secondary Education	3	Ed. 10b—Technic of Teaching in Secondary School	3
Science or Mathematics	3	Electives	8
Electives	8		
<i>Total</i>	<u>16</u>	<i>Total</i>	<u>16</u>

The courses outlined above total 131 to 137 hours. A minimum of 120 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

<sup>1</sup> Students who complete this curriculum may elect to take the A.B. degree.

<sup>2</sup> The identity of the courses elected in Latin will depend on the student's previous preparation; Latin 6, or 1a, is to be elected by those who have offered two units of high-school Latin for entrance (the normal case).

<sup>3</sup> In lieu of Rhetoric 1 and 2 in the first year, followed by Speech 10 or 1 later, the student may elect D.G.S. 1a-1b (Verbal Expression), for 4 hours of credit each semester of the first year.

<sup>4</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of Latin may need to be prepared to teach a second minor requiring a minimum of 16 hours. Desirable teaching combinations with Latin include a double minor in history and physical education, a double major in Latin and French with a minor in English or history, a double major in Latin and Spanish with a minor in English, a double major in Latin and German with a minor in English.

## Fifth Year

*For the Degree of Master of Arts in the Teaching of Latin*

The work will be planned to meet the needs of the individual student on the basis of his preparation and of the demands of his teaching position. Since all the classes he attends will be small, special attention will always be given his professional needs.

Latin courses to be chosen from the following list. At least 2 of these units must be in courses numbered 100 or over; the other 2 units may be chosen in whole or in part from the following list:

	UNITS
Latin 21—Tacitus and Juvenal; Latin 22—Martial, Suetonius, Apuleius; Latin 23—Livy, Tibullus, Propertius; Latin 24—Seneca's <i>Epistles and Tragedies</i> ; Latin 30a-30b—Honors Course.....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	8

It is strongly recommended that students who have completed one year of Greek as undergraduates take Greek 3 (Xenophon,  $\frac{1}{2}$  unit) and 4 (Homer,  $\frac{1}{2}$  unit) in their fifth year, and that those who have had no Greek take Greek 1a ( $\frac{1}{2}$  unit) and 1b ( $\frac{1}{2}$  unit).

## Undergraduate Minor in Latin

	HOURS
Latin 11a and 11b—Elementary Latin; or 2 years of high-school Latin.....	8
Latin 6—Cicero; or Latin 1a—Ovid; or 3 years of high-school Latin.....	4
Latin 1b—Vergil's <i>Aeneid</i> ; or 4 years of high-school Latin	4
Latin 5a and 5b—Composition.....	4
Latin 12a—Plautus, Terence, and Catullus; and Latin 12b—Sallust and Cicero's <i>De Senectute</i> .....	8

Latin 12a and 12b may be omitted when the study of Latin is begun in college.

Latin 3 (3 hours), in addition to Latin 12a and 12b, is required for those entering college with four years of high-school Latin.

The total number of hours in Latin required for a minor will thus vary as follows:

	HOURS
a. When Latin is begun in college.....	20
b. When 2 years high-school Latin have been accepted for entrance.....	20
c. When 3 years high-school Latin have been accepted for entrance.....	16 or 20
d. When 4 years high-school Latin have been accepted for entrance.....	15

## Summary of Requirements for Teaching of Latin

## I. General Education

	HOURS
Oral and Written Expression:	
Rhetoric 1 and 2 and Speech 1 or 10; or D.G.S. 1a-1b.....	8 or 9
Natural Science or Mathematics.....	11
Social Science:	
Political Science 1a.....	3
History 3b.....	3
Humanities (satisfied by study in major, minor, or electives)...	6
Hygiene 2 or 5.....	2
Psychology 1.....	4
<i>Total</i> .....	37-38

II. *Professional Education*

Education 1.....	2
Education 25.....	3
Education 6b.....	3
Education 10b.....	3
Educational Practice 17.....	5
<i>Total</i> .....	16

III. *Major (Latin)*A. *Grammar and Literature:**Preparatory:*

Latin 11a-11b or two years of high-school Latin.....	8
Latin 6 or Latin 1a or three years of high-school Latin.....	4
Latin 1b or four years of high-school Latin.....	4

*Intermediate and Advanced:*

Latin 12a.....	4
Latin 12b.....	4
Latin 3 and 4 or any of the following: Latin 21, 22, 23, 24..	6

B. *Composition:*

Latin 5a-5b.....	4
Latin 10.....	2
<i>Total</i> .....	36

IV. *Related Courses in Latin*

Latin 56.....	3
Latin 20.....	2
Latin 13.....	1
<i>Total</i> .....	6

V. *Minor*..... 16

(Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of Latin may need to be prepared to teach a second minor requiring a minimum of 16 hours. Desirable teaching combinations with Latin include a double minor in history and physical education, a double major in Latin and French with a minor in English or history, a double major in Latin and Spanish with a minor in English, and a double major in Latin and German with a minor in English.)

VI. *Electives*..... 8-9

(Additional hours for electives may be gained from basic courses credited from secondary school and by fulfilling part of the General Education requirements by work counted also toward a major or minor. It is recommended that students preparing for teaching take work totaling 130 hours in order to be prepared beyond minimum requirements. Recommended electives are Greek 1a-1b, 3, and 4; Hist. 55; Philos. 3; and advanced courses in Latin language.)

*Total for Graduation* (excluding first two years of work in military science and physical education)..... 120

## CURRICULUM PREPARATORY TO THE TEACHING OF FRENCH

*For the Degree of Bachelor of Arts in the Teaching of French<sup>1</sup>*

### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
French 1a—Elementary French....	4	French 1b—Elementary French	
Rhet. 1—Rhetoric and Composition	3	(cont'd).....	4
or D.G.S. 1a—Verbal Expression..	(4)	Rhet. 2—Rhetoric and Composition	3
Science and Mathematics.....	6-7	or D.G.S. 1b—Verbal Expression	(4)
Hygiene 2 or 5—Hygiene and Sanitation.....	2	Science.....	3-5
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
		Electives <sup>2</sup> .....	3-6
<i>Total</i> .....	16-19	<i>Total</i> .....	16-19

### Second Year

French 2a—Modern French.....	4	French 2b—Modern French	
Ed. 1—The American Public School	2	(cont'd).....	4
Military Science (for Men).....	1	Psych. 1—Introduction to	
Physical Education.....	1	Psychology.....	4
Electives.....	10	Military Science (for Men).....	1
		Physical Education.....	1
		Electives.....	7
<i>Total</i> .....	17-18	<i>Total</i> .....	16-17

### Third Year

French 3a—Introduction to French Literature.....	3	French 3b—Introduction to French Literature (cont'd).....	3
French 7a—Intermediate Composition and Conversation.....	2	French 7b—Intermediate Composition and Conversation (cont'd)..	2
Pol. Sci. 1a—American Government	3	Hist. 3b—History of the United States, 1828-1944.....	3
Ed. 25—Educational Psychology...	3	Speech 1—Principles of Effective Speaking.....	3
Electives.....	4	or Speech 10—Oral Interpretation of Literature.....	(2)
		Electives.....	5
<i>Total</i> .....	15	<i>Total</i> .....	15-16

### Fourth Year

French 8a—Advanced Composition and Conversation.....	2	French 8b—Advanced Composition and Conversation (cont'd).....	2
French 35a or 35b—Civilisation française.....	2	Ed. 10b—Technic of Teaching in Secondary School.....	3
Ed. 6b—Principles of Secondary Education.....	3	Ed. Prac. 12—Practice Teaching of French.....	5
Electives.....	8	Electives.....	5
<i>Total</i> .....	15	<i>Total</i> .....	15

The courses outlined above total 125 to 134 hours. A minimum of 120 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

At the end of the preceding four-year program, the bachelor's degree is

<sup>1</sup> Students who complete this curriculum may elect to take the A.B. degree.

<sup>2</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of French may need to be prepared to teach a second minor requiring a minimum of 16 hours. Desirable teaching combinations with French include English, foreign languages, history, music, and physical education. A double major in French and English and a double major in French and Latin with English or history as a minor subject are also recommended.

awarded. A fifth year may be taken for additional certification. The exact character of the work of the fifth year should be determined by the particular experience and needs of the individual student. The student's program will be worked out in conference with the adviser in the major area of specialization. The program will total a minimum of 8 units, or 32 semester hours, for two semesters.

### Fifth Year

#### *For the Degree of Master of Arts in the Teaching of French*

	UNITS
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	1
French.....	4
Electives.....	2
<i>Total</i> .....	8

#### Undergraduate Minor in French

	HOURS
French 1a—Elementary French.....	4
French 1b—Elementary French (continued).....	4
French 2a—Modern French (grammar, reading, oral work)	4
French 2b—Modern French.....	4
French 7a—Intermediate Composition and Conversation.....	2
French 7b—Intermediate Composition and Conversation (con- tinued).....	2
<i>Total</i> .....	20

The minor in French requires four hours of composition and conversation supplementary to courses 1a-1b and 2a-2b. Total hours required may be reduced by entrance credits of French. Additional courses recommended: French 3a-3b and French 8a-8b.

### Summary of Requirements for Teaching of French

#### I. General Education

Oral and Written Expression:	HOURS
Rhetoric 1 and 2 and Speech 1 or 10; <i>or</i> D.G.S. 1a-1b.....	8 or 9
Natural Science or Mathematics.....	11
Social Science:	
Political Science 1a.....	3
History 3b.....	3
Humanities (satisfied by study in major, minor, or electives)...	6
Hygiene 2 or 5.....	2
Psychology 1.....	4
<i>Total</i> .....	37-38

#### II. Professional Education

Education 1.....	2
Education 25.....	3
Education 6b.....	3
Education 10b.....	3
Educational Practice 12.....	5
<i>Total</i> .....	16

#### III. Major (French)

French 1a-1b <sup>1</sup> .....	8
French 2a-2b <sup>1</sup> .....	8
French 7a-7b.....	4
French 8a-8b.....	4
French 3a-3b.....	6
French 35a <i>or</i> 35b.....	2
<i>Total</i> .....	32

<sup>1</sup> Courses below French 2b are not counted toward a departmental major.

IV. <i>Minor</i> .....	16
(Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of French may need to be prepared to teach a second minor requiring a minimum of 16 hours. Desirable teaching combinations with French include English, foreign languages, history, art, music, and physical education. A double major in French and English and a double major in French and Latin with English or history as a minor subject are also recommended.)	
V. <i>Electives</i> .....	8-9
(Additional hours for electives may be gained from basic courses credited from secondary school and by fulfilling part of the General Education requirements by work counted also toward a major or minor. It is recommended that students preparing for teaching take work totaling 130 hours in order to be prepared beyond minimum requirements.)	
<i>Total for Graduation</i> (excluding first two years of work in military science and physical education).....	120

### CURRICULUM PREPARATORY TO THE TEACHING OF GERMAN

*For the Degree of Bachelor of Arts in the Teaching of German<sup>1</sup>*

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
German 1—Elementary German...	4	German 2—Elementary German	
Rhet. 1—Rhetoric and Composition	3	(cont'd).....	4
or D.G.S. 1a—Verbal Expression..	(4)	Rhet. 2—Rhetoric and Composition	3
Science or Mathematics.....	3	or D.G.S. 1b—Verbal Expression	(4)
Hygiene 2 or 5—Hygiene and Sanitation.....	2	Science or Mathematics.....	5
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
Electives <sup>2</sup> .....	4	Electives.....	4
<i>Total</i> .....	17-19	<i>Total</i> .....	17-19
Second Year			
German 4—Intermediate German..	4	German 5—Intermediate German	
Speech 1—Principles of Effective Speaking.....	3	(cont'd).....	4
or Speech 10—Oral Interpretation of Literature.....	(2)	Psych. 1—Introduction to Psychology.....	4
Ed. 1—The American Public School	2	Music 14a—Appreciation of Music	2
Music 13—Appreciation of Music...	2	or Art 12—Introduction to the History of the Fine Arts (cont'd)	(3)
or Art 11—Introduction to the History of Fine Arts; or English		Physical Education.....	1
54a—Introduction to Comparative Literature.....	(3)	Military Science (for Men).....	1
Science or Mathematics.....	3	Electives.....	6
Physical Education.....	1		
Military Science (for Men).....	1		
Electives.....	2-4		
<i>Total</i> .....	16-19	<i>Total</i> .....	17-18

<sup>1</sup> Students who complete this curriculum may elect to take the A.B. degree.

<sup>2</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of German may need to be prepared to teach a second minor requiring a minimum of 16 hours. Desirable teaching combinations with German include English, French, history, Latin, or Spanish. A double major in German and Latin with English as a minor is also recommended.

**Third Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
German 14—Introductory Schiller Course.....	3	German 10—Introductory Goethe Course.....	3
German 16a—Conversation and Writing.....	2	German 16b—Conversation and Writing (cont'd).....	2
Pol. Sci. 1a—American Government	3	Hist. 3b—History of the United States, 1828-1944.....	3
Ed. 25—Educational Psychology...	3	Ed. 6b—Principles of Secondary Education.....	3
Electives.....	6	Electives.....	6
<i>Total</i> .....	<u>17</u>	<i>Total</i> .....	<u>17</u>

**Fourth Year**

German 25—Teachers' Course.....	2	German 26b—German Literature in the Nineteenth Century.....	3
German 26a—German Literature to 1800.....	3	German 29b—Advanced Conversation and Writing.....	2
German 29a—Advanced Conversation and Writing.....	2	Ed. Prac. 28—Practice Teaching of German.....	5
Electives.....	9	Ed. 10b—Technic of Teaching in Secondary School.....	3
<i>Total</i> .....	<u>16</u>	Electives.....	<u>3</u>
		<i>Total</i> .....	<u>16</u>

The courses outlined above total 133 to 141 hours. A minimum of 120 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

**Fifth Year***For the Degree of Master of Arts in the Teaching of German*

The work will be planned to meet the needs of the individual student on the basis of his preparation and of the demands of his teaching position. Since all the classes he attends will be small, special attention will always be given his professional needs.

Courses are to be chosen from the following list: UNITS

German 19a and 19b—Goethe's Faust.....	
German 26a—German Literature to 1800.....	
German 26b—German Literature in the Nineteenth Century..	
German 31—Middle High German.....	
German 32—History of German Civilization.....	
German 39b—Goethe and Schiller.....	
<i>Total to be chosen from above courses</i> .....	2-2½
German courses open only to graduates (numbered 100 and up).....	1½-2
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	<u>8</u>

**Undergraduate Minor in German**

	HOURS
German 1—Elementary German.....	4
German 2—Elementary German (cont'd).....	4
German 4—Intermediate German.....	4
German 5—Intermediate German (cont'd); or German 6—Scientific Reading.....	4
<i>Four hours selected from the following courses:</i>	
German 16a—Conversation and Writing.....	2
German 16b—Conversation and Writing (cont'd).....	2
German 29a—Advanced Conversation and Writing.....	2
German 29b—Advanced Conversation and Writing (cont'd)..	2
<i>Total</i> .....	<u>20</u>



### Summary of Requirements for Teaching of German

#### I. General Education

Oral and Written Expression:	HOURS
Rhetoric 1 and 2 and Speech 1 or 10; <i>or</i> D.G.S. 1a-1b.....	8 or 9
Natural Science or Mathematics.....	11
Social Science:	
Political Science 1a.....	3
History 3b.....	3
Humanities (satisfied by study in major, minor, or electives)...	6
Hygiene 2 or 5.....	2
Psychology 1.....	4
<i>Total</i> .....	37-38

#### II. Professional Education

Education 1.....	2
Education 25.....	3
Education 6b.....	3
Education 10b.....	3
Educational Practice 28.....	5
<i>Total</i> .....	16

#### III. Major (German)

(If the student begins German in college, he must take an average of at least 4 hours per semester for 8 semesters. If he has had German in high school he may take less work in German or he may prepare himself better by taking more than the minimum number of credits.)

##### A. Elementary and Intermediate Courses:

German 1 and 2.....	8
German 4 and 5, <i>or</i> 6.....	8
<i>Total</i> .....	16

##### B. Advanced Courses:

###### 1. Required Courses:

- a. At least 6 hours must be chosen from the following courses: 16a and b and 29a and b..... 6
- b. At least 6 hours must be chosen from the following courses: 19a and b, 26a and b, 30a and b, 31, 32, 39b..... 6

###### 2. Electives:

- At least 4 hours from courses listed under B above or from the following courses: 7, 10, 14, 24a and b, 25, 28a and b..... 4
- Total*..... 16

#### IV. Minor..... 16

(Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of German may need to be prepared to teach a second minor requiring a minimum of 16 hours. Desirable teaching combinations with German include English, French, history, Latin, or Spanish. A double major in German and Latin with English as a minor is also recommended.)

#### V. Electives..... 18-19

(Additional hours for electives may be gained from basic courses credited from secondary school and by fulfilling part of the General Education requirements by work counted also toward a major or minor. It is recommended that students preparing for teaching take work totaling 130 hours in order to be prepared beyond minimum requirements. Recommended electives: Engl. 54a and b, Hist. 36a and b, Philos. 1, Art 11 and 12, Music 13 and 14, advanced German courses not included in the minimum program, and other language and literature courses.)

*Total for Graduation* (excluding first two years of work in military science and physical education)..... 120

## CURRICULUM PREPARATORY TO THE TEACHING OF SPANISH

*For the Degree of Bachelor of Arts in the Teaching of Spanish<sup>1</sup>*

### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Spanish 1a—Elementary Spanish...	4	Spanish 1b—Elementary Spanish	
Rhet. 1—Rhetoric and Composition	3	(cont'd).....	4
or D.G.S. 1a—Verbal Expression..	(4)	Rhet. 2—Rhetoric and Composition	3
Laboratory Science.....	5	or D.G.S. 1b—Verbal Expression	(4)
Physical Education.....	1	Science or Mathematics.....	3
Military Science (for Men).....	1	Hygiene 2 or 5—Hygiene and Sanitation.....	2
Electives <sup>2</sup> .....	3-4	Physical Education.....	1
		Military Science (for Men).....	1
		Electives.....	3-4
<i>Total</i> .....	16-19	<i>Total</i> .....	16-19

### Second Year

Spanish 2a—Modern Spanish.....	4	Spanish 2b—Modern Spanish	
Ed. 1—The American Public School	2	(cont'd).....	4
Pol. Sci. 1a—American Government	3	Psych. 1—Introduction to Psychology.....	4
Speech 1—Principles of Effective Speaking.....	3	Hist. 3b—History of the United States, 1828-1944.....	3
or Speech 1c—Oral Interpretation of Literature.....	(2)	Physical Education.....	1
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Electives.....	4
Electives.....	4		
<i>Total</i> .....	17-18	<i>Total</i> .....	16-17

### Third Year

Spanish 3a—Introduction to Spanish Literature.....	3	Spanish 3b—Introduction to Latin-American Literature.....	3
Spanish 7a—Intermediate Composition and Conversation.....	2	Spanish 7b—Intermediate Composition and Conversation.....	2
Ed. 25—Educational Psychology... Science.....	3	Soc. Sci. 1 <sup>3</sup> —Latin-American Civilization.....	3
Electives.....	5	Ed. 6b—Principles of Secondary Education.....	3
		Electives.....	5
<i>Total</i> .....	16	<i>Total</i> .....	16

### Fourth Year

Spanish 9—Spoken Spanish.....	4	Spanish 14b—Phonetics and Syntax	2
Electives.....	11	Ed. Prac. 23—Practice Teaching of Spanish.....	5
		Ed. 10b—Technic of Teaching in Secondary School.....	3
		Electives.....	5
<i>Total</i> .....	15	<i>Total</i> .....	15

<sup>1</sup> Students who complete this curriculum may elect to take the A.B. degree.

<sup>2</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of Spanish may need to be prepared to teach a second minor, requiring a minimum of 16 hours. Minor teaching subjects which constitute desirable teaching combinations with Spanish include English, Latin, and history. A double major in Spanish and English with no minor and a double major in Spanish and Latin with a minor in English are also recommended.

<sup>3</sup> Credit earned in Social Science 1 is counted toward Spanish major.

The courses outlined above total 127 to 135 hours. A minimum of 123 hours of credit, not counting the first two years of military science and physical education, is required for graduation.

### Fifth Year

#### *For the Degree of Master of Arts in the Teaching of Spanish*

The exact character of the work in the fifth year will be determined by the particular experience and needs of the individual student. Each program will be worked out in individual conferences between the adviser in the major field and the student.

	UNITS
Spanish (middle group courses, 1-2 units; graduate courses, 2-3 units).....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	8

#### Undergraduate Minor in Spanish

	HOURS
Spanish 1a—Elementary Spanish.....	4
Spanish 1b—Elementary Spanish (cont'd).....	4
Spanish 2a—Modern Spanish.....	4
Spanish 2b—Modern Spanish (cont'd).....	4
Spanish 6a-6b—Elementary Conversation.....	4
<i>Total</i> .....	20

#### Summary of Requirements for Teaching of Spanish

##### I. General Education

	HOURS
Oral and Written Expression:	
Rhetoric 1 and 2 and Speech 1 or 10; <i>or</i> D.G.S. 1a-1b.....	8 or 9
Natural Science or Mathematics.....	11
Social Science:	
Political Science 1a.....	3
History 3b.....	3
Humanities (satisfied by study in major, minor, or electives)...	6
Hygiene 2 or 5.....	2
Psychology 1.....	4
<i>Total</i> .....	37-38

##### II. Professional Education

Education 1.....	2
Education 25.....	3
Education 6b.....	3
Education 10b.....	3
Educational Practice 23.....	5
<i>Total</i> .....	16

##### III. Major (Spanish)

Spanish 1a-1b.....	8
Spanish 2a-2b.....	8
Spanish 3a-3b.....	6
Spanish 7a-7b.....	4
Spanish 8a-8b.....	4
Spanish 14b.....	3
Social Science 1.....	3
<i>Total</i> .....	36

##### IV. Minors

English.....	19
Latin or History.....	15-20
<i>Total</i> .....	34-39

V. *Electives*..... (6)

(The six hours in humanities required under General Education, above, will be fulfilled by courses in the major, thus freeing six hours for electives. Recommended electives: Spanish 10a-10b, 17a-17b, 18a-18b, Hist. 27a-27b, Engl. 12, 13, 23, 54a-54b, 55a-55b, Rhet. 3.)

*Total for Graduation* (excluding first two years of work in military science and physical education)..... 123

### CURRICULUM PREPARATORY TO THE TEACHING OF GEOGRAPHY

*For the Degree of Bachelor of Science in the Teaching of Geography*

#### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Geog. 1—Elements of Geography...	5	Geog. 2—Economic Geography....	5
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
Foreign Language.....	4	Foreign Language.....	4
Military Science (for Men).....	1	Hygiene 2 or 5—Hygiene and	
Physical Education.....	1	Sanitation.....	2
Electives <sup>1</sup> .....	3	Military Science (for Men).....	1
		Physical Education.....	1
<i>Total</i> .....	17	<i>Total</i> .....	16

#### Second Year

Geog. 4a—Geography of Eastern North America.....	3	Geog. 4b—Geography of Western North America.....	3
Ed. 1—The American Public School	2	Geog. 5—Geography of South America.....	3
Speech 1—Principles of Effective Speaking.....	3	Psych. 1—Introduction to Psychology.....	4
or Speech 10—Oral Interpretation of Literature.....	(2)	Military Science (for Men).....	1
Military Science (for Men).....	1	Physical Education.....	1
Physical Education.....	1	Electives.....	5
Electives.....	7-8		
<i>Total</i> .....	17	<i>Total</i> .....	17

#### Third Year

Geog. 8—Geography of Europe; or Geog. 14—Introduction to Meteorology.....	3	Geog. 11—Geography of Asia; or Geog. 14a—Climates of the Continents.....	3
Ed. 25—Educational Psychology...	3	Geog. 16—Geography of Illinois...	3
Hist. 3b—History of the United States, 1828-1944.....	3	Ed. 6b—Principles of Secondary Education.....	3
Electives.....	8	Pol. Sci. 1a—American Government	3
		Electives.....	5
<i>Total</i> .....	17	<i>Total</i> .....	17

#### Fourth Year

Geog. 60a—Introduction to Research.....	2	Geog. 60b—Introduction to Research.....	2
Ed. 10b—Technic of Teaching in the Secondary School.....	3	Electives.....	13
Ed. Prac. 29—Practice Teaching of Geography.....	5		
Electives.....	5		
<i>Total</i> .....	15	<i>Total</i> .....	15

<sup>1</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of geography may need to be prepared to teach a second minor requiring a minimum of 16 hours.

The courses outlined above total 131 hours. A minimum of 123 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

### Fifth Year

#### *For the Degree of Master of Science in the Teaching of Geography*

FIRST SEMESTER	UNITS	SECOND SEMESTER	UNITS
Geog. 134—Advanced Studies in Geography.....	1	Geog. 135—Research.....	1
Ed. 125—Advanced Educational Psychology.....	1	Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives.....	2	Electives.....	2
<i>Total</i> .....	4	<i>Total</i> .....	4

#### Geography as a First Undergraduate Minor

Geog. 1—Elements of Geography.....	5
Geog. 2—Economic Geography.....	5
Geog. 3—World Regional Geography.....	3
Geog. (Regional courses) <sup>1</sup> .....	6
<i>Total</i> .....	19

#### Geography as a Second Undergraduate Minor

Geog. 1—Elements of Geography.....	5
{Geog. 4a—Geography of Eastern North America.....	3
{Geog. 4b—Geography of Western North America.....	3
or	
{Geog. 8—Geography of Europe.....	(3)
{Geog. 11—Geography of Asia.....	(3)
Geog. 14—Introduction to Meteorology.....	3
Geog. 14a—Climates of the Continents.....	3
<i>Total</i> .....	17

### CURRICULUM IN VOCATIONAL HOME ECONOMICS EDUCATION

#### *For the Degree of Bachelor of Science in Home Economics Education*

##### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Home Econ. 1—Introduction to Home Economics.....	1	Home Econ. 7—Selection and Care of Textiles and Clothing.....	3
Home Econ. 4—Introduction to Foods and Nutrition; or Hygiene 2—Essentials of Hygiene and Sanitation.....	2	Home Econ. 4—Introduction to Foods and Nutrition; or Hygiene 2—Essentials of Hygiene and Sanitation.....	2
Chem. 1 or 2—Inorganic Chemistry 5 or 3		Chem. 5—Inorganic Chemistry and Qualitative Analysis.....	5
Art 1a—Design.....	2	Art 1b—Design.....	2
D.G.S. 1a—Verbal Expression.....	4	D.G.S. 1b—Verbal Expression.....	4
or Rhet. 1—Rhetoric and Composition.....	(3)	or Rhet. 2—Rhetoric and Composition.....	(3)
Physical Education.....	1	Physical Education.....	1
Electives <sup>2</sup> .....	2		
<i>Total</i> .....	15-17	<i>Total</i> .....	16-17

<sup>1</sup> It is recommended that regional courses be taken in related sequences, such as Eastern and Western North America, Caribbean and South America. These courses should be selected from Geography 4a, 4b, 4c, 5, 8, 10, 11, 14, and 14a.

<sup>2</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. Desirable teaching combinations with home economics include double minors in either art and English, biological science and general science, biological science and chemistry, chemistry and general science, English and physical education, or general science and physical education.

**Second Year**

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Home Econ. 29a—Clothing.....	2	Home Econ. 3—Home Decoration..	3
Home Econ. 29b—Clothing Laboratory.....	2	Physiol. 1 or 1a—Mammalian Physiology <sup>1</sup> .....	3 or 5
Home Econ. 2—Home Architecture	3	Psych. 1—Introduction to Psychology.....	4
Chem. 32—Elementary Organic Chemistry.....	3	Hist. 3b—History of the United States, 1828-1944; or Pol. Sci. 1a—American Government.....	3
Ed. 1—The American Public School	2	Physical Education.....	1
Speech 1 or 10 (if Rhetoric 1 and 2 are taken).....	3 or 2	Electives.....	2
or Elective.....	(2)		
Physical Education.....	1		
Electives.....	2		
<i>Total</i> .....	17-18	<i>Total</i> .....	16-18

**Third Year**

Home Econ. 58—Foods.....	3	Home Econ. 59—Food Economics..	3
Home Econ. 56—The Child and His Development.....	3	Home Econ. 5—Dietetics.....	3
Home Econ. 56b—Laboratory in Child Development.....	2	Home Econ. 10—Organization and Management of the Home.....	3
Econ. 2—Elements of Economics...	3	Home Econ. 40—Home Care of the Sick.....	1
Ed. 25—Educational Psychology...	3	Ed. 6b—Principles of Secondary Education.....	3
Electives.....	2	Electives.....	3
<i>Total</i> .....	16	<i>Total</i> .....	16

**Fourth Year**

FIRST OR SECOND SEMESTER		FIRST OR SECOND SEMESTER	
Home Econ. 34—Teachers Course in Clothing.....	2	Home Econ. 14—Home Management.....	3
Bact. 5a—Introductory Bacteriology <sup>1</sup> .....	3	Home Econ. 11—Teaching of Home Economics.....	3
Bact. 5b—Introductory Bacteriology Laboratory <sup>1</sup> .....	2	Ed. 10b—Technic of Teaching in Secondary Schools.....	3
Hist. 3b—History of the United States, 1828-1944; or Pol. Sci. 1a—American Government.....	3	Ed. Prac. 14—Practice Teaching of Home Economics.....	5
Ed. 41—Principles of Vocational Education.....	3	Electives.....	2
Electives.....	4		
<i>Total</i> .....	16-17	<i>Total</i> .....	16

The courses outlined above total 128 to 135 hours. A minimum of 124 hours of credit, not counting the first two years of work in physical education, is required.

**Fifth Year***For the Degree of Master of Science in Home Economics Education***I. Required Professional Courses:**

Ed. 125—Advanced Educational Psychology.....	1 unit
Ed. 30—History of American Education; or Ed. 101—Philosophy of Education.....	1 unit
Ed. 116—Seminar in Home Economics Education.....	1 unit
Ed. 114—Current Problems and Trends in Home Economics Education.....	1 unit
or Home Econ. 9—Home Economics Extension (Adult Education).....	(½ unit)
<i>Total</i> .....	3½ or 4 units

<sup>1</sup> Each student must take a total of 8 hours in physiology and bacteriology.

## II. A total of 2 or 2½ units chosen from the following home economics courses:

## 1. Home Management:

Home Econ. 57a-57b—Problems in Home Management:

Money Management..... 3 hours

Household Management..... 3 hours

Home Econ. 24—Farm Home Planning in Relation to Function 2 hours

Home Econ. 28—Organization and Management of the Home 2 hours

Home Econ. 106—Seminar in Household Management..... 1 unit

## 2. Foods and Nutrition:

Home Econ. 20—Physical Growth and Nutrition..... 2 hours

Home Econ. 33—Diet in Disease..... 3 hours

Home Econ. 35—Problems in Foods..... 3 hours

Home Econ. 49—Problems in School Lunch and Industrial

Feeding..... 1 unit

Home Econ. 63—Experimental Foods..... 3 hours

## 3. Textiles and Clothing:

Home Econ. 31—Clothing..... 3 hours

Home Econ. 43a—Problems in Textiles and Clothing..... 3 hours

Home Econ. 43b—Problems in Textiles and Clothing..... 3 hours

## 4. Child Development and Family Relationships:

Home Econ. 57a-57b—Problems in Home Management

(Family Relationships and Child Development)..... 3 hours

Home Econ. 101—Problems in Family Living..... 1 unit

Home Econ. 106—Seminar in Household Management

(Family Relationships)..... 1 unit

## III. Electives ..... 2 units

*Total* ..... 8 units**Undergraduate Minor in Home Economics****HOURS**

Home Econ. 7—Selection and Care of Textiles and Clothing.... 3

Home Econ. 29a and 29b—Clothing..... 4

Home Econ. 56—The Child and His Development..... 3

Home Econ. 61—Introduction to Foods..... 3

Home Econ. 80—Home Management..... 2

Home Econ. 3—Home Decoration..... 3

Home Econ. 38—Elementary Nutrition..... 2

*Total*..... 20**TEACHER-TRAINING CURRICULUM WITH MATHEMATICS  
AS A MAJOR TEACHING SUBJECT**

It is understood that this curriculum will be administered by a standing committee which shall be responsible for advising students who enter the curriculum and shall, under the general direction of the University Council on Teacher Education, recommend to the Dean of the college in which students are registered adequate substitutions for required courses.

*Entrance Requirements.*—Three years of high school mathematics, including a year of plane geometry, one and a half years of algebra, and solid geometry, are required for entrance. Students who enter without solid geometry must take Mathematics 1 in Year I, Semester II. Students who enter with only one year of algebra must substitute for the required Mathematics 10a-10b (unified freshman course, 9 hours credit) the courses Mathematics 3 (Algebra, 5 hours), Mathematics 4 (Trigonometry, 2 hours), and Mathematics 6a (Analytic Geometry, 4 hours).

Students who offer for entrance two years of a foreign language can satisfy the foreign language requirement for graduation in the College of Liberal Arts and Sciences by taking the course required in the freshman year in that language. If they have had no foreign language in high school, or if they wish to take up a new language, the first eight hours of work must be supplied in some fashion.

*Degree Requirements.*—The required courses for the first four years satisfy the requirements for graduation in the College of Education and in the College

of Liberal Arts and Sciences if 16 hours of electives are used. However, if more than one minor teaching subject is contemplated, doubtless more elective hours must be taken.

The program advised by the committee for the fifth year must be approved by the departments concerned and must be accepted by the Dean of the Graduate School as satisfactory for the Master's degree.

### CURRICULUM PREPARATORY TO THE TEACHING OF MATHEMATICS

*For the Degree of Bachelor of Science in the Teaching of Mathematics<sup>1</sup>*

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
D.G.S. 1a—Verbal Expression.....	4	D.G.S. 1a—Verbal Expression.....	4
Foreign language (second year) <sup>2</sup> ....	4	Foreign language (second year) <sup>2</sup> ....	4
Math. 10a—Combined Freshman Mathematics <sup>3</sup> .....	5	Math. 10b—Combined Freshman Mathematics <sup>3</sup> .....	4
Hygiene 2 or 5—Hygiene and Sanitation.....	2	Military Science (for Men).....	1
Military Science (for Men).....	1	Physical Education.....	1
Physical Education.....	1	Electives <sup>4</sup> .....	3
<i>Total</i> .....	<i>17</i>	<i>Total</i> .....	<i>17</i>
Second Year			
Ed. 1—The American Public School	2	Psych. 1—Introduction to Psychology.....	4
Biology (D.G.S. 3a-3b, Zool. 1, or Bot. 1a-1b).....	4-5	Biology (D.G.S. 3a-3b, Zool. 1, or Bot. 1a-1b).....	4-5
Math. 7—Calculus.....	5	Math. 9—Calculus.....	3
Philos. 2—Logic.....	3	Military Science (for Men).....	1
Military Science (for Men).....	1	Physical Education.....	1
Physical Education.....	1	Electives.....	4
Electives.....	2	<i>Total</i> .....	<i>17-18</i>
<i>Total</i> .....	<i>18-19</i>		
Third Year			
Physics 1a and 3a—General Physics and Laboratory.....	5	Physics 1b and 3b—General Physics and Laboratory.....	5
or D.G.S. 4a—Physical Science (for students not minoring in science).....	(4)	or D.G.S. 4b—Physical Science (for students not minoring in science).....	(4)
Hist. 3b—History of the United States, 1828-1944.....	3	Pol. Sci. 1a—American Government	3
Math. 40a—Fundamental Concepts of Mathematics.....	3	Math. 40b—Fundamental Con- cepts of Mathematics (cont'd)...	3
Ed. 25—Educational Psychology...	3	Math. 35—Teachers' Course.....	3
English or American Literature...	3	Ed. 6b—Principles of Secondary Education.....	3
<i>Total</i> .....	<i>16-17</i>	<i>Total</i> .....	<i>16-17</i>

<sup>1</sup> Students who complete this curriculum may elect to take the B.S. degree with a major in mathematics.

<sup>2</sup> Completion of the second year of a foreign language will satisfy the graduation requirement in Liberal Arts and Sciences if the same foreign language is pursued in the University as is offered for entrance to the College. A student who wishes to minor in a foreign language should have three years of high-school preparation in that language.

<sup>3</sup> Students who enter the curriculum with only one year of high-school algebra must take Math. 3, 4, and 6a (totaling 11 hours) instead of Math. 10a-10b.

<sup>4</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. Students who wish to minor in general science, and who intend to take Physics 1 and 3 in the third year, should take one semester of chemistry in their second year. Other desirable minors include the commercial subjects, and double minors in any of the following: biological sciences and chemistry; biological sciences and general science; biological sciences and physics; chemistry and general science; chemistry and physics; French and Latin; general science and physical education; general science and physics; German and Latin; industrial arts and physics; Latin and physical education; Latin and Spanish; music and physics; physical education and physics.



**Fourth Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Ed. 10b—Technic of Teaching in the Secondary School.....	3	Philos. 3—History of Ancient and Medieval Philosophy; or	
Math. 70a—Introduction to Higher Algebra; or Math. 72a—Introduction to Higher Geometry.....	3	Philos. 4—History of Modern Philosophy.....	4
Ed. Prac. 19—Practice Teaching of Mathematics.....	5	Math. 70b—Introduction to Higher Algebra; or Math. 72b—Introduction to Higher Geometry....	3
Electives.....	4	Math. 36—Solid Analytic Geometry	3
		Electives.....	5
<i>Total</i> .....	15	<i>Total</i> .....	15

The courses outlined above total 131 to 135 hours. A minimum of 120 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

**Fifth Year***For the Degree of Master of Science in the Teaching of Mathematics*

UNITS		UNITS	
Math. 70a—Introduction to Higher Algebra; or Math. 72a—Introduction to Higher Geometry.....	1	Math. 70b—Introduction to Higher Algebra; or Math. 72b—Introduction to Higher Geometry....	1
Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1	Ed. 125—Advanced Educational Psychology.....	1
Electives.....	2	Electives.....	2
<i>Total</i> .....	4	<i>Total</i> .....	4

Completion of the five-year program of required mathematics courses satisfies the 40-hour requirement for a junior college certificate.

**Undergraduate Minor in Mathematics**

For students having  $1\frac{1}{2}$  entrance units in algebra, 1 unit in plane geometry, and  $\frac{1}{2}$  unit in solid geometry:

	HOURS
Math. 10a—Combined Freshman Mathematics.....	5
Math. 10b—Combined Freshman Mathematics (cont'd)....	4
Math. 8a—Calculus.....	3
Math. 8b—Calculus (cont'd).....	3
Math. 40a—Fundamental Concepts of Mathematics.....	3
<i>Recommended but not required:</i>	
Math. 40b—Fundamental Concepts of Mathematics (cont'd)...	3
<i>Total</i> .....	18-21

**CURRICULUM PREPARATORY TO THE TEACHING OF MATHEMATICS AND THE PHYSICAL SCIENCES***For the Degree of Bachelor of Science in the Teaching of Mathematics and the Physical Sciences*

The following curriculum satisfies the requirements for mathematics as a major teaching subject, with chemistry and physics (also general science) as minor teaching subjects.

**First Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
D.G.S. 1a—Verbal Expression.....	4	D.G.S. 1b—Verbal Expression....	4
Math. 10a—Combined Freshman Mathematics.....	5	Math. 10b—Combined Freshman Mathematics (cont'd).....	4
Chem. 1 or 2—Inorganic Chemistry	5 or 3	Chem. 5—Inorganic Chemistry and Qualitative Analysis.....	5
Hygiene 2 or 5—Hygiene and Sanitation.....	2	English or American Literature...	2
Physical Education.....	1	Physical Education.....	1
Military Science (for Men).....	1	Military Science (for Men).....	1
<i>Total</i> .....	16-18	<i>Total</i> .....	17

**Second Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Math. 7—Calculus.....	5	Math. 9—Calculus.....	3
Chem. 22—Elementary Quantitative Analysis.....	5	Chem. 33—Elementary Organic Chemistry.....	5
Biology.....	4	Biology.....	4
Ed. 1—The American Public School.....	2	Psych. 1—Introduction to Psychology.....	4
Physical Education.....	1	Physical Education.....	1
Military Science (for Men).....	1	Military Science (for Men).....	1
<i>Total</i> .....	<u>18</u>	<i>Total</i> .....	<u>18</u>

**Third Year**

Math. 40a—Fundamental Concepts of Mathematics.....	3	Math. 40b—Fundamental Concepts of Mathematics (cont'd)...	3
Physics 1a and 3a—General Physics and Laboratory.....	5	Physics 1b and 3b—General Physics and Laboratory.....	5
Hist. 3b—History of the United States, 1828-1944.....	3	Pol. Sci. 1a—American Government.....	3
Ed. 25—Educational Psychology.....	3	Ed. 6b—Principles of Secondary Education.....	3
Electives.....	2	Math. 35—Teachers' Course.....	3
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>17</u>

**Fourth Year**

Math. 70a—Introduction to Higher Algebra.....	3	Math. 70b—Introduction to Higher Algebra (cont'd).....	3
Physics 20a—Theoretical Mechanics.....	3	Physics 30—Introduction to Theoretical Electricity.....	3
Ed. 10b—Technic of Teaching in the Secondary School.....	3	Philos. 3 or 4—History of Philosophy.....	4
Ed. Prac. 19—Practice Teaching of Mathematics.....	5	Math. 36—Solid Analytic Geometry.....	3
Philos. 2—Logic.....	3	Electives.....	2
<i>Total</i> .....	<u>17</u>	<i>Total</i> .....	<u>15</u>

The courses outlined above total 134 to 136 hours. A minimum of 123 hours of credit, not counting the first two years of military science and physical education, is required for graduation.

**Fifth Year**

*For the Degree of Master of Science in the Teaching of Mathematics and the Physical Sciences*

UNITS		UNITS	
Math. 71a—Introduction to Higher Analysis; or Math. 18—Advanced Calculus.....	1	Math. 71b—Introduction to Higher Analysis (cont'd); or Math. 19—Differential Equations and Orthogonal Functions.....	1
Chem. 40—Physical Chemistry.....	1	Physics 20b—Theoretical Mechanics.....	1
Ed. 125—Advanced Educational Psychology.....	1	Ed. 10r—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives.....	1	Electives.....	1
<i>Total</i> .....	<u>4</u>	<i>Total</i> .....	<u>4</u>

## CURRICULUM IN MUSIC EDUCATION

*For the Degree of Bachelor of Science in Music Education*

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Major Applied Music Subject.....	5	Major Applied Music Subject.....	5
Minor Applied Music Subject <sup>1</sup> .....	2	Minor Applied Music Subject.....	2
Music 3a—Theory, Harmony.....	3	Music 3b—Theory, Harmony.....	3
Music 3c—Ear Training and Sight Singing.....	1	Music 3d—Ear Training and Sight Singing.....	1
Rhet. 1—Rhetoric and Composition <sup>2</sup>	3	Rhet. 2—Rhetoric and Composi- tion <sup>2</sup> .....	3
Military Science (for Men).....	1	Hygiene.....	2
Physical Education.....	1	Military Science (for Men).....	1
		Physical Education.....	1
<i>Total</i> .....	15-16	<i>Total</i> .....	17-18

## Second Year

Major Applied Music Subject.....	4	Major Applied Music Subject.....	4
Music 1a—History of Music.....	2	Music 1b—History of Music.....	2
Music 4a—Theory, Harmony.....	3	Music 4b—Theory, Harmony.....	3
Music 4c—Ear Training and Sight Singing.....	1	Music 4d—Ear Training and Sight Singing.....	1
Natural Science <sup>3</sup> .....	3	Natural Science <sup>3</sup> .....	3
Ed. 1—The American Public School	2	Psych. 1—Introduction to Psychology.....	4
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
<i>Total</i> .....	16-17	<i>Total</i> .....	18-19

## Third Year

Music 25—Elementary and Junior High School Music.....	2	Music 26—Senior High School Choral Music.....	2
Music 68a—String Instruments....	2	Music 68b—String Instruments....	2
Music 98a—Wind Instruments.....	2	Music 98b—Wind Instruments....	2
Music 30a—Ensemble.....	½	Music 30b—Ensemble.....	½
Pol. Sci. 1a—American Government	3	Ed. 6b—Principles of Secondary Education.....	3
Ed. 25—Educational Psychology...	3	Hist. 3b—History of the United States, 1828-1944.....	3
Speech 10—Oral Interpretation of Literature <sup>2</sup> .....	2	Electives <sup>4</sup> .....	5
Electives <sup>4</sup> .....	3		
<i>Total</i> .....	17½	<i>Total</i> .....	17½

<sup>1</sup> A placement test is given in this subject (piano or voice). Students will be placed, according to their abilities, in courses that will provide opportunities for securing the required proficiency. Thus, a student may be required to take from 2 to 4 hours of work in excess of the 130 hours required for graduation.

<sup>2</sup> D.G.S. 1a and 1b (Verbal Expression) may be taken instead of Rhetoric 1 and 2 and Speech 10 or Speech 1.

<sup>3</sup> D.G.S. 3a and 3b may be taken.

<sup>4</sup> A minimum of 16 hours for a second teaching subject is required. Desirable teaching combinations with music include art, English, French, German, Latin, physical education, and Spanish.

**Fourth Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Music 95c—Conducting.....	2	Music 27—Instrumental School	
Music 13—Appreciation of Music..	2	Music.....	2
Music 15—Instrumentation.....	1	Music 14a—Appreciation of Music	2
Music 31a—Ensemble.....	½	Music 16—Instrumentation.....	1
Ed. Prac. 20a—Practice Teaching of		Music 31b—Ensemble.....	½
Music.....	2	Ed. Prac. 20b—Practice Teaching	
Ed. 10b—Technic of Teaching in the		of Music.....	3
Secondary School.....	3	Electives <sup>1</sup> .....	8
Electives <sup>1</sup> .....	6		
<i>Total</i> .....	<u>16½</u>	<i>Total</i> .....	<u>16½</u>

The courses outlined above total 134 to 138 hours. A minimum of 130 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

**Fifth Year***For the Degree of Master of Science in Music Education*

UNITS		UNITS	
Ed. 125—Advanced Educational		Ed. 101—Philosophy of Education;	
Psychology.....	1	or Ed. 30—History of American	
Applied Music Major <sup>2</sup> .....	1	Education.....	1
Electives.....	2	Music 130—Administration and	
		Supervision of Music Education..	1
		Applied Music Major <sup>2</sup> .....	1
		Electives.....	1
<i>Total</i> .....	<u>4</u>	<i>Total</i> .....	<u>4</u>

**Undergraduate Minors in Music**

INSTRUMENTAL MINOR		HOURS
Music 68a-68b—String Instruments.....		4
Music 98a-98b—Wind Instruments.....		4
Music 95c—Conducting.....		2
Music 13 or 14a—Appreciation of Music.....		2
Music 42—Piano; or Music 62—Violin; or Music 92—Band		
and Orchestral Instruments (to be chosen with consent of		
adviser).....		4
Music 27—Instrumental School Music.....		2
<i>Total</i> .....		<u>18</u>

**VOCAL MINOR**

Music 3c and 3d—Ear Training and Sight Singing.....	2
Music 13 or 14a—Appreciation of Music.....	2
Music 30a-30b—Vocal Section.....	1
Music 95c—Conducting.....	2
Music 42—Piano.....	4
Music 52—Voice.....	4
Music 25—Elementary and Junior High School Music; or	
Music 26—Senior High School Choral Music.....	2
<i>Total</i> .....	<u>17</u>

<sup>1</sup> A minimum of 16 hours for a second teaching subject is required. Desirable teaching combinations with music include art, English, French, German, Latin, physical education, and Spanish.

<sup>2</sup> Chosen from courses for advanced undergraduates and graduates.

## CURRICULUM IN PHYSICAL EDUCATION FOR MEN

### *For the Degree of Bachelor of Science in Physical Education*

The professional curriculum in Physical Education for Men is designed to prepare students for teaching health, safety, and physical education, coaching athletics, and directing recreation. All applicants must be in good health, with no handicapping physical defects, and must be certified by the University Health Service for specialization in physical education, or be approved by the Director of the School of Physical Education.

This curriculum consists of a freshman-sophomore program, which is essentially the same for all students, and a junior-senior program which includes a core-curriculum and also allows each student to elect courses in one of three areas of specialization. The degree of Bachelor of Science in Physical Education is conferred on students who successfully complete a total of 130 semester hours as outlined below.

### Summary of Requirements for Men

	HOURS
Professional physical education courses.....	45
General courses, as prescribed.....	25
Foundation science courses, as prescribed.....	18
Education courses, as prescribed.....	17
Second subject of specialization.....	16
Free electives.....	9
<i>Total</i> .....	130

### Freshman-Sophomore Program for Men

In each of the first two years, students who take Group A in the first semester will take Group B in the second semester, and those who take Group B the first semester will take Group A in the second semester.

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
<i>Group A</i>		<i>Group A</i>	
P.E.M. 4—Beginning Football... 2		P.E.M. 4—Beginning Football... 2	
P.E.M. 1—Beginning Basketball.. 2		P.E.M. 1—Beginning Basketball 2	
<i>Group B</i>		<i>Group B</i>	
P.E.M. 80—Physical Conditioning Programs..... 2		P.E.M. 80—Physical Conditioning Programs..... 2	
P.E.M. 11—Swimming..... 2		P.E.M. 11—Swimming..... 2	
P.E.M. 70—Professional Orientation 2		Rhet. 2—Rhetoric and Composition <sup>1</sup> ..... 3	
Rhet. 1—Rhetoric and Composition <sup>1</sup> 3		Bot. 1a—General Botany <sup>2</sup> ..... 3	
Physiol. 3a—Physiological Anatomy 5		Physiol. 3b—Physiological Anatomy..... 5	
Hygiene 5—Elementary Hygiene and Sanitation..... 2		Hygiene 10—Advanced Hygiene... 2	
Military Science..... 1		Military Science..... 1	
<i>Total</i> .....	17	<i>Total</i> .....	18

<sup>1</sup> A student may elect to take D.G.S. 1a and 1b as a substitute for Rhetoric 1 and 2, and Speech 1.

<sup>2</sup> Students who elect a minor in biological science are urged to take an additional course, Botany 1b (2 hours), during their junior or senior year. A student who does not wish to minor in biological science may substitute a double minor in either general science and physics or chemistry and general science. Desirable second minors with biological science as the first minor include general science, physics, and chemistry. Other combinations may be elected, subject to the approval of the Director or Dean of the School or College in which the student is registered.

Second Year			
FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
<i>Group A</i>		<i>Group A</i>	
P.E.M. 15—Outdoor Recreational Sports.....	2	P.E.M. 15—Outdoor Recreational Sports.....	2
P.E.M. 77—Indoor Recreational Sports.....	2	P.E.M. 77—Indoor Recreational Sports.....	2
<i>Group B</i>		<i>Group B</i>	
P.E.M. 2—Gymnastics.....	2	P.E.M. 2—Gymnastics.....	2
P.E.M. 12—Track and Field.....	2	P.E.M. 12—Track and Field.....	2
P.E.M. 72—Camp and Outing Leadership.....	3	Psych. 1—Introduction to Psychology.....	4
Hist. 3b—History of the United States, 1828-1944.....	3	Pol. Sci. 1a—American Government	3
Speech 1—Principles of Effective Speaking.....	3	Zoology 1—General Zoology <sup>1</sup> .....	5
Ed. 1—The American Public School	2	Military Science.....	1
Military Science.....	1		
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>17</u>

### Junior-Senior Program for Men

#### Required Courses in Education

	HOURS
Ed. 6b—Principles of Secondary Education.....	3
Ed. 10b—Technique of Teaching.....	3
Ed. 25—Educational Psychology.....	3
Ed. Prac. 1—Practice Teaching of Physical Education.....	3
Ed. Prac. 2—Practice Teaching of Physical Education.....	3

#### Required Non-Professional Courses

(Substitution of six other hours in the Humanities may be made with the approval of the Director of the School of Physical Education)

Greek 15—Greek and Roman Sports.....	2
Art 70a—Craft Materials and Technic.....	2
Philos. 7—Moral Ideas and Practice.....	2

#### Recommended Non-Professional Courses

Econ. 2—Elements of Economics.....	3
Sociol. 1—Principles of Sociology.....	3
Hist. 17b—Social and Economic Forces in the U. S. since 1860	3
Home Econ. 38—Elementary Nutrition.....	2
Physiol. (new)—Physiology of Exercise.....	3
Physiol. (new)—Kinesiology.....	3

#### Required Professional Courses

P.E.M. 7—Training and First Aid.....	2
P.E.M. 9—Principles of School Health.....	3
P.E.M. 18—Curriculum in Physical Education.....	3
P.E.M. 71—Principles of Safety Education.....	2
P.E.M. 76—Principles of Recreation.....	3
P.E.M. 99—Inspection Trip.....	1
<i>Total</i> .....	<u>14</u>

#### Professional Courses Recommended for Students in Each of the Three Fields of Specialization

Students who wish to specialize in one of the three fields comprehended in the divisions of physical education and coaching; physical education, health, and

<sup>1</sup> Students who elect a minor in biological science are urged to take an additional course, Botany 1b (2 hours), during their junior or senior year. A student who does not wish to minor in biological science may substitute a double minor in either general science and physics or chemistry and general science. Desirable second minors with biological science as the first minor include general science, physics, and chemistry. Other combinations may be elected, subject to the approval of the Director of the School of Physical Education.

safety; and physical education and recreation are required to take a minimum of eleven hours from the courses suggested below:

#### PHYSICAL EDUCATION AND COACHING

	HOURS		HOURS
P.E.M. 3—Theory of Coaching....	3	P.E.M. 73—Tests and Measure-	
P.E.M. 5—Theory of Prescribing		ments in Health and Phys. Ed...	3
Exercise.....	2	P.E.M. 78—Advanced Football and	
P.E.M. 6—Wrestling, Boxing, and		Six-man Football.....	2
Fencing.....	2	P.E.M. 79—Advanced Basketball..	2
P.E.M. 8—Baseball and Softball...	2	P.E.M. 82—Organization of	
P.E.M. 13—Organization of Extra-		Aquatic Programs.....	2
curricular Sports.....	3	P.E.M. 83—Training Techniques..	2
P.E.M. 14—Recreation and Social			
Activities.....	2		
P.E.M. 16—History of Sports.....	2		

#### PHYSICAL EDUCATION, HEALTH, AND SAFETY

P.E.M. 5—Theory of Prescribing		P.E.M. 19—Organization of Rec-	
Exercise.....	2	reation Programs.....	3
P.E.M. 73—Tests and Measure-		P.E.M. 83—Training Techniques..	3
ments in Health and Phys. Ed....	3		
P.E.M. 74—Organization of School			
Health Programs.....	3		

#### PHYSICAL EDUCATION AND RECREATION

P.E.M. 5—Theory of Prescribing		P.E.M. 16—History of Sport.....	2
Exercise.....	2	P.E.M. 17—Golf, Tennis, Archery..	2
P.E.M. 8—Baseball and Softball...	2	P.E.M. 19—Organization of Rec-	
P.E.M. 13—Organization of Extra-		reation Programs.....	2
curricular Sports.....	2	P.E.M. 82—Organization of	
P.E.M. 14—Recreation and Social		Aquatic Programs.....	2
Activities.....	2		

#### Fifth Year

##### *For the Degree of Master of Science in Physical Education*

*Admission Requirements.*—Twenty-four hours of credit in approved physical education work. (Candidates with one year of full-time teaching experience in physical education, or the equivalent, may be admitted with eighteen hours of approved credit.)

*Requirements for Master's Degree.*—A minimum of four units of graduate credit in physical education, selected from the following courses:

	UNITS		UNITS
P.E. 31—Problems in Physical		P.E. 109—Research.....	½-2
Education.....	1	(Students proposing to carry on	
P.E. 32—Problems of School Health	1	individual research or write a	
P.E. 33—Foundations of Physical		thesis should register for this	
Fitness.....	1	course)	
P.E. 101—Principles and Programs		P.E. (new)—Organization of	
of Public Health.....	1	Camping Programs.....	1
P.E. 103—Problems in Safety		P.E. (new)—Problems in	
Education.....	1	Recreation.....	1
P.E. 105—Philosophy of Sport....	1	P.E. (new)—Administration of	
P.E. 106—Techniques of Research		Extracurricular Sports.....	1
in Physical Education <sup>1</sup> .....	1		
P.E. 107—Trends and Techniques			
in Rehabilitation.....	1		

Other courses, to complete 8 units, include: Education 125—Advanced Educational Psychology (1 unit); Education 101—Philosophy of Education (1 unit), or Education 30—History of American Education (1 unit); Electives—2 units.

<sup>1</sup> Normally this course is a prerequisite for students who propose to carry on individual research or write a thesis.

*Program of Study.*—There are no fixed course requirements beyond those specified above. The adviser in consultation with the student will formulate a program of courses adapted to each individual's interests and needs. This may include the preparation of a thesis.

### Undergraduate Minor in Physical Education

<i>Required Courses</i>	HOURS
Hygiene 5—Elementary Hygiene and Sanitation.....	2
P.E.M. 7—First Aid.....	2
P.E.M. 9—Principles of School Health.....	3
P.E.M. 18—Curriculum in Physical Education; or P.E.M. 13—Organization of Extracurricular Sports.....	3
<i>Total, Required Courses</i> .....	10

#### *Elective Courses*

The remaining ten hours required for a minor must be chosen from activity courses; four of these hours may be in the general service courses, with the balance selected from the following:

	HOURS
{ P.E.M. 1—Beginning Basketball.....	2
{ P.E.M. 4—Beginning Football.....	2
{ P.E.M. 15—Outdoor Recreational Sports.....	2
{ P.E.M. 77—Indoor Recreational Sports.....	2
{ P.E.M. 6—Boxing, Wrestling, and Fencing.....	2
{ P.E.M. 8—Baseball and Softball.....	2
{ P.E.M. 2—Gymnastics.....	2
{ P.E.M. 12—Track and Field.....	2
{ P.E.M. 11—Swimming.....	2
{ P.E.M. 80—Physical Conditioning Programs.....	2
<i>Total, Elective Courses</i> .....	10
<i>Total Required for Minor</i> .....	20

### CURRICULUM IN PHYSICAL EDUCATION FOR WOMEN

#### *For the Degree of Bachelor of Science in Physical Education*

##### First Year

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
or D.G.S. 1a—Verbal Expression..	(4)	or D.G.S. 1b—Verbal Expression	(4)
Zool. 1—General Zoology.....	5	P.E.W. 70b—Physical Education	
P.E.W. 70a—Physical Education		Practice (rhythms, basketball,	
Practice (orientation, hockey,		and softball).....	2
gymnastics).....	2	Engl. 10b, Language, or Science...	3-4
P.E.W. 74, 75, or 76—Swimming...	1	Bot. 1a—Introductory Botany....	3
Hygiene 2—Hygiene and Sanitation	2	Electives <sup>2</sup> .....	4
Engl. 10a, Language, or Science....	3-4		
<i>Total</i> .....	16-18	<i>Total</i> .....	15-17

<sup>1</sup> A teaching minor in the biological sciences is recommended. For this Botany 1a is required. Students who do not wish to minor in the biological sciences may substitute, with the approval of the adviser, another course in science.

<sup>2</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. In addition, the beginning teacher of physical education may need to be prepared to teach a second minor requiring a minimum of 16 hours. Minor teaching subjects which constitute desirable teaching combinations with physical education include: biological science and chemistry; biological science and general science; biological science and physics; chemistry and general science; and general science and physics.

Recommended electives: in Social Science—Econ. 2, Geog. 3, Hist. 1a-1b, Philos. 5 and 7, Pol. Sci. 16, Psych. 14, Sociol. 1; in Physical Education for Women—P.E.W. 55 (Life Saving), P.E.W. 80 (Recreation and Camp Leadership), P.E.W. 86 (Comparative Physical Education), P.E.W. 91 (Social Dancing).



**Second Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Hist. 3b—History of the United States, 1828-1944.....	3	Pol. Sci. 1a—American Government	3
Speech 1—Principles of Effective Speaking.....	3	Physiol. 3b—Physiological Anatomy.....	5
Physiol. 3a—Physiological Anatomy	5	P.E.W. 71b—Physical Education Practice (folk dancing, stunts, tumbling, and tennis).....	2
P.E.W. 71a—Physical Education Practice (tap dancing, soccer, advanced gymnastics, apparatus)...	2	P.E.W. 82—Technic of Teaching Swimming.....	1
Ed. 1—The American Public School	2	Psych. 1—Introduction to Psychology.....	4
Electives.....	2	Electives.....	2-3
<i>Total</i> .....	17	<i>Total</i> .....	17-18

**Third Year**

Ed. 25—Educational Psychology...	3	Ed. 6b—Principles of Secondary Education.....	3
P.E.W. 81—Games for School and Playground.....	2	P.E.W. 62—Advanced Rhythms..	3
P.E.W. 83a—Physical Education Practice (American square and social dance).....	1	P.E.W. 83b—Physical Education Practice (volleyball and archery)	1
P.E.W. 95a—Technic of Teaching Sports.....	4	P.E.W. 95b—Advanced Technic of Teaching Sports.....	4
P.E.W. 97—Tests and Measurements.....	3	P.E.W. 96—Kinesiology.....	4
Electives.....	3	Electives.....	2
<i>Total</i> .....	16	<i>Total</i> .....	17

**Fourth Year**

Ed. 10b—Technic of Teaching.....	3	P.E.W. 90—Organization and Administration of Physical Education.....	2
Ed. Prac. 3—Practice Teaching of Physical Education.....	3	P.E.W. 93b—Physical Education Practice (bowling and golf).....	1
P.E.W. 93a—Physical Education Practice (speedball and badminton).....	1	Ed. Prac. 4—Practice Teaching of Physical Education.....	3
P.E.W. 98—Theory of Prescribed Exercise.....	3	P.E.W. 99—School Health.....	4
Electives.....	5-7	P.E.M. 71—Safety Education.....	2
<i>Total</i> .....	15-17	Electives.....	5
		<i>Total</i> .....	17

The courses outlined above total 130 to 137 hours. A minimum of 130 hours of credit is required for graduation.

**Fifth Year***For the Degree of Master of Science in Physical Education*

	UNITS
Physical Education (selected from the courses listed below)	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; or Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	8

PHYSICAL EDUCATION COURSES	UNITS
P.E. 31—Problems in Physical Education.....	I
P.E. 32—Problems in School Health.....	I
P.E. 33—Foundations of Physical Fitness.....	I
P.E. 101—Principles and Programs of Public Health.....	I
P.E. 103—Problems in Safety Education.....	I
P.E. 105—Philosophy of Sport.....	I
P.E. 106—Techniques of Research in Physical Education....	I
P.E. 107—Trends and Techniques of Rehabilitation.....	I
P.E. 109—Research.....	½-2
P.E. (new)—Organization and Administration of Extracurricular Sports.....	I
P.E. (new)—Organization and Administration of Recreation	I
P.E. (new)—Organization and Administration of Camping..	I

Undergraduate Minor in Physical Education	HOURS
P.E.W. 58—Team Games (tennis and basketball).....	I
P.E.W. 58—Team Games (soccer and badminton).....	I
P.E.W. 58—Team Games (volleyball and softball).....	I
P.E.W. 51—Elementary Rhythms.....	I
P.E.W. 79—Elementary Folk Dancing.....	I
P.E.W. 78—Social and American Square Dancing.....	I
P.E.W. 81—Games for School and Playground.....	2
P.E.W. 99—School Health.....	4
P.E.W. (new)—Organization and Methods of Physical Education.....	3
P.E.W. 80—Recreation and Camp Leadership.....	2
<i>Total</i> .....	17

*Recommended Courses for Additional Credit*

Physiol. 1—Mammalian Physiology.....	3
P.E.W. 74 or 76—Swimming.....	I
P.E.W. 55—Life Saving.....	I
P.E.W. 72—Fundamentals of Motor Fitness, Stunts and Tumbling.....	I
P.E.W. 77—Elementary Tap Dancing.....	I
P.E.W. 59—Bowling.....	I
P.E.W. 58—Team Games (hockey and speedball).....	I
P.E.W. (new)—First Aid and Safety Education.....	2

**Summary of Curriculum in Physical Education for Women**

<b>1. Basic Sciences</b>	<b>HOURS</b>
Zool. 1—General Zoology.....	5
Physiol. 3a-3b—Physiological Anatomy.....	10
Psych. 1—Introduction to Psychology.....	4
Hygiene 2—Hygiene and Sanitation.....	2
Bot. 1a—Introductory Botany.....	3
<i>Total, Basic Sciences</i> .....	24
<b>2. General Education (As outlined for a Limited High School Certificate)</b>	
Oral and Written Expression.....	9-11
Social Science.....	6
Humanities.....	6
Electives.....	23
Natural Science (see Basic Sciences, above).....	..
<i>Total, General Education</i> .....	44-46

<sup>1</sup> One semester is spent in elementary school teaching where the student teacher has complete charge of a class 2 to 3 hours a week and observes elementary school methods of organization and teaching two hours. The other semester is spent in high school where she teaches three hours and observes two hours a week. In both situations, the student teacher makes her own plans, carries them through, aids in program construction, and receives regular supervision.

	HOURS
<b>3. Professional Education</b>	
Ed. 1—The American Public School.....	2
Ed. 25—Educational Psychology.....	3
Ed. 6b—Principles of Secondary Education.....	3
Ed. 10b—Technic of Teaching in the Secondary School.....	3
Ed. Prac. 3 and 4 (elementary school, 3; high school, 3) <sup>1</sup> ....	6
<i>Total, Professional Education</i> .....	17
<b>4. Physical Education</b>	
P.E.W. 70a—Physical Education Practice (orientation, hockey, and gymnastics).....	2
P.E.W. 70b—Physical Education Practice (rhythms, basketball, and softball).....	2
P.E.W. 71a—Physical Education Practice (tap dancing, soccer, gymnastics, and apparatus).....	2
P.E.W. 71b—Physical Education Practice (folk dancing, stunts and tumbling, tennis).....	2
P.E.W. 74, 75, or 76—Swimming.....	1
P.E.W. 83a—Physical Education Practice (American square and social dance).....	1
P.E.W. 83b—Physical Education Practice (volleyball and archery).....	1
P.E.W. 93a—Physical Education Practice (speedball and badminton).....	1
P.E.W. 93b—Physical Education Practice (bowling and golf).....	1
P.E.W. 81—Games for School and Playground.....	2
P.E.W. 82—Technic of Teaching Swimming.....	1
P.E.W. 95a-95b—Technic of Teaching Sports.....	8
P.E.W. 96—Kinesiology.....	4
P.E.W. 97—Tests and Measurements in Physical Education.....	3
P.E.W. 62—Advanced Rhythms.....	3
P.E.W. 98—Theory of Prescribed Exercise.....	3
P.E.W. 90—Organization and Administration of Physical Education.....	2
P.E.W. 99—School Health.....	4
P.E. 71—Safety Education.....	2
<i>Total, Physical Education</i> .....	45
<i>Total Required for Graduation</i> .....	130

### CURRICULUM PREPARATORY TO THE TEACHING OF PHYSICS

*For the Degree of Bachelor of Science in the Teaching of Physics*

For students preparing to teach Physical Science with a major in Physics and with minors in Mathematics and Chemistry. Students entering this curriculum should have  $2\frac{1}{2}$  units of high-school mathematics.

First Year			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Rhet. 1—Rhetoric and Composition	3	Rhet. 2—Rhetoric and Composition	3
Hygiene 2 or 5—Hygiene and Sanitation.....	2	Math. 10b—Combined Freshman Mathematics.....	4
Math. 10a—Combined Freshman Mathematics.....	5	Chem. 5—Inorganic Chemistry and Qualitative Analysis.....	5
Chemistry 1 or 2—Inorganic Chemistry.....	5 or 3	Psych. 1—Introduction to Psychology.....	4
Physical Education.....	1	Physical Education.....	1
Military Science (for Men).....	1	Military Science (for Men).....	1
<i>Total</i> .....	15-17	<i>Total</i> .....	18

<sup>1</sup> See footnote on preceding page.

**Second Year**

FIRST SEMESTER		SECOND SEMESTER	
	HOURS		HOURS
Physics 1a and 3a <i>or</i> 7a and 8a— General Physics (Mechanics, Sound, and Heat).....	5	Physics 1b and 3b <i>or</i> 7b and 8b— General Physics (Electricity, Magnetism, Light, and Modern Physics).....	5
Ed. 1—The American Public School	2	Math. 9—Calculus.....	3
Math. 7—Calculus.....	5	Chem. 22—Quantitative Analysis..	5
Foreign Language.....	4	Foreign Language.....	4
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
<i>Total</i> .....	<u>18</u>	<i>Total</i> .....	<u>19</u>

**Third Year**

Physics 14a—Intermediate Me- chanics, Heat, and Sound <sup>1</sup> .....	5	Physics 14b—Intermediate Elec- tricity, Magnetism, and Light <sup>1</sup> ...	5
Pol. Sci. 1a—American Government	3	Hist. 3b—History of the United States, 1828-1944.....	3
Chem. 33—Elementary Organic Chemistry.....	5	Ed. 6b—Principles of Secondary Education.....	3
Ed. 25—Educational Psychology...	3	Math. 40a—Fundamental Concepts of Mathematics.....	3
<i>Total</i> .....	<u>16</u>	Speech 1—Principles of Effective Speaking.....	3
		<i>or</i> Speech 10—Oral Interpreta- tion of Literature.....	(2)
		<i>Total</i> .....	<u>16-17</u>

**Fourth Year**

Physics <sup>2</sup> .....	6	Physics <sup>2</sup> .....	6
Ed. 10b—Technic of Teaching in the Secondary School.....	3	Electives <sup>3</sup> .....	10
Ed. Prac. 21—Practice Teaching of Physics.....	5		
Electives <sup>3</sup> .....	2		
<i>Total</i> .....	<u>16</u>	<i>Total</i> .....	<u>16</u>

The courses outlined above total 134 to 137 hours. A minimum of 129 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

**Fifth Year***For the Degree of Master of Science in the Teaching of Physics*

Eight units of work are required, including four in physics, two in education, and two in electives. Courses must be selected with the consent of the adviser, who will see that the candidate strengthens areas in which he is weakest. No thesis is required.

	UNITS
Physics.....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	<u>8</u>

<sup>1</sup> Physics 14a-14b may be replaced by courses selected from advanced undergraduate and graduate physics courses numbered 20 or higher, upon approval of the adviser.

<sup>2</sup> Courses in physics for the senior year are to be chosen from those numbered 20 or higher.

<sup>3</sup> Electives should be chosen from courses listed for advanced undergraduates in chemistry and mathematics, additional courses in advanced physics, and courses in electrical engineering.

*For the Degree of Master of Science in the Teaching  
of the Physical Sciences*

A special program leading to the degree of Master of Science in the Teaching of the Physical Sciences is available to meet the needs of students who wish to study in both chemistry and physics rather than to specialize in one department. It is designed primarily for those preparing to teach the physical sciences in high school. Students working toward a degree under the provisions of this program are expected to seek approximately equal proficiency in both physics and chemistry; those whose undergraduate work has emphasized chemistry should balance this by weighting the graduate work in favor of physics, and vice versa. No thesis is required, and all courses in physics and chemistry which normally give graduate credit will carry credit toward the degree. To qualify for the degree, a student must have had, or must include in his program, at least one course in mathematics beyond the calculus, and for which the calculus is prerequisite.

	UNITS
Physical Science.....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Philosophy of Education; <i>or</i> Ed. 30—History of American Education.....	1
Electives.....	2
<i>Total</i> .....	<u>8</u>

**Undergraduate Minor in Physics**

	HOURS
Physics 1 and 3, <i>or</i> 7 and 8—General Physics.....	10
Physics 14a—Intermediate Mechanics, Heat, and Sound....	5
Physics 14b—Intermediate Electricity, Magnetism, and Light	<u>5</u>
<i>Total</i> .....	<u>20</u>

**CURRICULUM PREPARATORY TO TEACHING  
SOCIAL STUDIES**

*For the Degree of Bachelor of Arts in the Teaching of Social Studies<sup>1</sup>*

**First Year**

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Rhet. 1—Rhetoric and Composition <i>or</i> D.G.S. 1a—Verbal Expression..	(4)	Rhet. 2—Rhetoric and Composition <i>or</i> D.G.S. 1b—Verbal Expression	(4)
Foreign Language <sup>2</sup> .....	4	Foreign Language.....	4
Science or Mathematics.....	3	Science or Mathematics.....	5
Hygiene 2 <i>or</i> 5—Hygiene and Sanitation.....	2	Military Science (for Men).....	1
Military Science (for Men).....	1	Physical Education.....	1
Physical Education.....	1	History <sup>3</sup> .....	3-4
History <sup>3</sup> .....	<u>3-4</u>		
<i>Total</i> .....	<u>16-19</u>	<i>Total</i> .....	<u>16-19</u>

<sup>1</sup> This is a specimen curriculum and may be varied with the advice of the adviser. However, all of the courses listed in the curriculum must be taken at some point in the student's schedule.

<sup>2</sup> A student who has completed two years of foreign language in high school may register in second-year University classes in that language.

<sup>3</sup> The social studies requirement is 20 hours in history and 21 hours in social studies fields other than history.

In history, students are required to complete one elementary course, both semesters, selected from the following list: History 1a-1b—Continental European History; History 2a-2b—History of England; History 5a-5b—The Ancient World; D.G.S. 2a-2b—History of Civilization. History 3a may be taken to complete the History 3a-3b sequence. Students are also required to complete 12-14 hours in advanced courses in history. In these, at least six hours must be offered in American history and at least six hours in European history (Ancient, Medieval, English, or Modern).

In the social studies fields other than history, the 21 hours of work should include at least one course in each of the following: economics, political science, and sociology. At least eight hours should be taken in each of two social studies fields: economics, political science, sociology, geography.

**Second Year**

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Social Studies <sup>1</sup> .....	6	Social Studies <sup>1</sup> .....	5
Pol. Sci. 1a—American Government	3	Hist. 3b—History of the United States, 1828-1944.....	3
Foreign Language.....	4	Foreign Language.....	4
Ed. 1—The American Public School	2	Psych. 1—Introduction to Psychology.....	4
Military Science (for Men).....	1	Military Science (for Men).....	1
Physical Education.....	1	Physical Education.....	1
<i>Total</i> .....	16-17	<i>Total</i> .....	17-18

**Third Year**

Social Studies <sup>1</sup> .....	5	Social Studies <sup>1</sup> .....	7
Science or Mathematics.....	3	Ed. 6b—Principles of Secondary Education.....	3
Speech 1—Principles of Effective Speaking.....	3	<i>Any one of the following:</i> <sup>3</sup>	
or Speech 10—Oral Interpretation of Literature <sup>2</sup> .....	(2)	Engl. 10b—Study of the Drama..	3
<i>Any one of the following:</i> <sup>3</sup>		Engl. 11b—Chronological Study of Masterpieces.....	3
Engl. 10a—Types of Poetry.....	3	Philos. 13—Ethics and Value Theory.....	3
Engl. 11a—Chronological Study of Masterpieces.....	3	D.G.S. 6b—Literature and Fine Arts.....	4
Philos. 2—Logic.....	3	Electives <sup>4</sup> .....	2-3
D.G.S. 6a—Literature and Fine Arts.....	4		
Ed. 25—Educational Psychology....	3		
<i>Total</i> .....	16-18	<i>Total</i> .....	15-17

**Fourth Year**

Social Studies <sup>1</sup> .....	6	Social Studies <sup>1</sup> .....	4-6
Electives.....	9	Ed. 10b—Technic of Teaching in the Secondary School.....	4
		Ed. Prac. 8, 15, 27, 29 or 32—Student Teaching.....	5
		Electives.....	2-3
<i>Total</i> .....	15	<i>Total</i> .....	15-18

The courses outlined above total 126 to 141 hours, including credit earned in military science and physical education. A minimum of 120 hours of credit, not counting the first two years of work in military science and physical education, is required for graduation.

<sup>1</sup> The social studies requirement is 20 hours in history and 21 hours in social studies fields other than history.

In history, students are required to complete one elementary course, both semesters, selected from the following list: History 1a-1b—Continental European History; History 2a-2b—History of England; History 5a-5b—The Ancient World; D.G.S. 2a-2b—History of Civilization. History 3a may be taken to complete the History 3a-3b sequence. Students are also required to complete 12-14 hours in advanced courses in history. In these, at least six hours must be offered in American history and at least six hours in European history (Ancient, Medieval, English, or Modern).

In the social studies fields other than history, the 21 hours of work should include at least one course in each of the following: economics, political science, and sociology. At least eight hours should be taken in each of two social studies fields: economics, political science, sociology, geography.

<sup>2</sup> Students who take D.G.S. 1a-1b in their freshman year are not required to take Speech 1 or 10.

<sup>3</sup> Second-year foreign language courses may be used to satisfy this requirement.

<sup>4</sup> Students are required to complete one teaching minor consisting of a minimum of 16 semester hours. Desirable teaching combinations with social studies include art, commercial subjects, English, French, German, home economics, industrial arts, Latin, mathematics, music, physical education, and Spanish.

## Fifth Year

*For the Degree of Master of Arts in the Teaching of Social Studies*

	UNITS
Social Studies (selected from not more than three of the following: history, political science, economics, geography, sociology, philosophy; at least two units must be taken in history).....	4
Ed. 125—Advanced Educational Psychology.....	1
Ed. 101—Educational Philosophy; or Ed. 30—History of American Education <sup>1</sup> .....	1
Electives.....	2
<i>Total</i> .....	<i>8</i>

## Undergraduate Minors in the Social Studies

*Other than History*

For a minor in the social studies, other than history, a student must complete at least 8 hours of work in each of two of the following subjects: economics, geography, political science, sociology. The minimum total required for a minor is 16 hours.

All, or nearly all, students who earn this teaching minor will have earned teaching majors in the commercial subjects, which require 11 hours of economics, 3 of political science, 3 of economic or commercial geography, and 8 of sociology. These courses satisfy the minimum requirement for teaching civics, community civics, economics, sociology, contemporary problems, and economic or commercial geography in the high school.

*Minor in History*

For a minor in history, a student must complete 5-6 hours in advanced courses in American history, 8 hours in general European history, and 2-3 hours in one of the following: English, ancient, medieval, or Latin-American history. The minimum total required for a minor is 16 hours.

<sup>1</sup> Students who have completed a substantial amount of study in American history are advised to elect Education 101.

## **Policy and Rules Relating to Compensation and Working Conditions of Nonacademic Employees**

**(Effective July 1, 1945)**

(Adopted by the Board of Trustees June 30, 1945, Minutes, page 506)

### **I. GENERAL POLICY**

1. Every University of Illinois employee has a part in the educational and scientific effort of the University which can be best carried out only under a program of harmonious employee-employer relationships. The University strives to have happy, industrious employees who will give courteous, efficient service to all who have contact with it through them. To this end the University endeavors to provide working conditions and compensation comparable to those furnished by other employers in the community, keeping in mind that the University is a State institution receiving a major part of its financial support from taxes.

2. The University recognizes the principle of collective bargaining with respect to all nonacademic employees not in administrative positions as designated in section XV. The University will negotiate with any individual, group of individuals, or organization acting on behalf of any group of employees when such person or agency presents evidence that he or it represents more than fifty per cent (50%) of the employees of the group or classification employed by the University, and that he or it is authorized to represent them. The determination of the appropriate unit for collective bargaining and of the majority representation in that unit shall be made by the Department of Labor of the State of Illinois in case of lack of agreement on these points.

3. Any employee will have the right to discuss with the Director of Nonacademic Personnel the terms of his employment or his working conditions, including his classification under the University Civil Service, but no individual agreement may be made which will violate the terms of an agreement reached by negotiation with the group of which he is a part.

4. No person or organization will be permitted to solicit membership in any organization with a University employee during the employee's working hours.

5. All nonacademic employees of the University are under the University Civil Service as governed by State law, and are entitled to all the rights and subject to all the requirements of that law.



**6.** A permanent and continuous employee is (a) one employed in a position or in work which the University contemplates continuing for the next six months, or is (b) a person who has completed six months of service. For this purpose a month of service shall be no less than twenty work days, excluding approved absences. A person employed regularly but on a part-time basis and fulfilling the above conditions will be considered a permanent and continuous employee.

**7.** The words "prevailing rate" when used herein shall be the cash wages paid generally in the locality in which the work is being performed to employees engaged in work of a similar character.

## **II. NEGOTIATION PROCEDURE**

**1.** All proposals for establishment of, or changes in, rates of compensation, hours, or other subjects dealt with in sections III to V inclusive herein shall be submitted to the Office of Nonacademic Personnel. This office will secure all of the relevant facts, and will negotiate the proposals with employees concerned, or, in case of a collective bargaining unit, their duly constituted representatives, and with the University departments involved.

**2.** Employees appointed or elected to represent any employee groups in negotiations will be allowed full pay, at straight time rates only, for time required to be so spent during their regular working day or shifts. In no case will payment be made in accordance with the above provisions for any time beyond the close of the regular work day or shift. Other than as set forth in this section and in section XIII-6, payment will not be allowed for time spent in meetings or conferences except as these may be called or requested by recognized departmental authorities or as they may be approved by the Director of Nonacademic Personnel. Lists of all employees whose presence is desired at such meetings or conferences shall be submitted in advance to the Director of Nonacademic Personnel who shall be responsible for determining their representative status as above noted and for arrangements with their supervisors for them to be excused from work in their respective departments.

**3.** The Director of Nonacademic Personnel will have the responsibility and authority to reach an understanding on behalf of the University in accordance with the terms of this Policy.

### III. METHODS OF DETERMINING RATES OF COMPENSATION

1. All proposed changes in group rates shall be submitted to the Director of Nonacademic Personnel not later than September 1 preceding the biennium beginning the following July 1, shall be effective not before the beginning of the biennium, and shall not be exceeded during the biennium.

A. Subject to the foregoing limitations, the University will pay prevailing rates to all employees in any group when such a rate has been determined or can be determined by the University for that group under the following conditions: Such rates are to be paid only after they have been put into effect locally; they are effective from the date they have been made effective locally, provided that notice has been given the Director of Nonacademic Personnel before the expiration of a local agreement upon which the local prevailing rate is based; if notice is not given in accordance with the preceding condition, rates will become effective only from the date that notice has been given to the Director of Nonacademic Personnel that the rates are in effect locally; no retroactive pay shall be effective prior to the beginning of a biennium in which the rates are made effective by the University; if the local prevailing rate declines during a biennium, the University will follow such declines but no rates at the University will be reduced below those in effect at the beginning of the biennium. Vacations, disability leave, retirement and death benefits are granted to prevailing rate employees only in accordance with sections VI to XI inclusive irrespective of local prevailing practice in these matters. In some classifications the University will pay rates below the prevailing rates during the probationary period of not to exceed six months. (Schedules are available showing the classifications subject to the prevailing rate rule as of July 1, 1945. Changes in these schedules will be made only with the approval of the Director of Nonacademic Personnel. Employees concerned will be advised whenever such changes are made.)

a. Permanent and continuous employees in prevailing rate groups paid at hourly rates will be paid a monthly rate determined by multiplying the number of hours of the work year, which shall be uniform in all years, by the hourly rate and dividing by 12, as follows:

1. In those positions in which the work week is 40 hours, the monthly rate will be based upon a net of 255 work days, or 2,040 hours per work year (365 days per year less 52 Saturdays, 52 Sundays, and 6 holidays).

2. In those positions in which the regular work week is 44 hours, the monthly rate will be based upon a net of 281 work days, or 2,248 hours per work year (365 days less 52 Sundays, one-half of 52 Saturdays or 26 days, and 6 holidays).

3. In those positions in which the regular work week is 48 hours,

the monthly rate will be based upon a net of 307 days, or 2,456 hours per work year (365 days less 52 Sundays and 6 holidays).

b. Permanent and continuous employees in prevailing rate groups whose compensation is based on a monthly rate will be paid that monthly rate adjusted to provide for any difference in weekly working schedules which may exist between the University and local prevailing practice.

B. The University, through the Director of Nonacademic Personnel, will negotiate with any other group of employees, or their authorized representatives as defined in section I-2 hereof (in case of a collective bargaining unit), for the purpose of establishing rates that are mutually acceptable.

**2.** The University, through the Director of Nonacademic Personnel, will be responsible for the determination of salary and wage ranges and compensation for all nonacademic groups whose wages are not determined in accordance with A and B preceding. For employees in such groups the University will establish a compensation plan based on a job evaluation program in which rates shall be related to rates otherwise established for comparable services and paid for similar services by other employers.

**3.** In every classification where the compensation lies between stated minimum and maximum rates instead of being a single fixed rate and where the maximum rate in April, 1945, was \$235 per month or less, there shall be automatic increases at least once each year until the mid-point of the range in the classification is reached. Each employee shall be fairly and impartially rated at least once each budgetary year, and when additional non-automatic adjustments in compensation are made they shall be in accordance with this rating and the recommendations of supervisors. The plan of rating shall be available to all concerned, and the ratings of each employee shall be available to him.

In classifications in which the maximum of the salary range is more than \$235 per month each employee shall be fairly and impartially rated at least once each budgetary year and when adjustments in compensation are made they shall be in accordance with this rating and the recommendations of supervisors.

#### **IV. HOURS**

**1.** The University recognizes work schedules as set forth in this section. Each employee classification is allocated to an appropriate work schedule as to the work day and the work week. [Schedules for Urbana and Chicago have been supplied to all interested employees and officers of the University.] Changes in these schedules will be

made as to prevailing rate groups when prevailing local practices change and the University is notified accordingly, and as to other groups when approved by the Director of Nonacademic Personnel. Employees in groups concerned will be notified of all such changes.

2. The work day of all groups unless herein specified shall be broken only by a lunch period of not more than one hour.

3. In those positions in which continuous seven-day service is required, Saturdays and Sundays (see section V) shall not be recognized as such, but as though they were regular work days. No employee will be required to work regularly seven consecutive days. Except as otherwise indicated in this section, the work week of all employees shall start on Monday.

### Work Schedules at Urbana

4. The work schedules recognized at *Urbana* are:

A. Eight-hour day, 40-hour week, five days, Monday through Friday.

B. Eight-hour day or four hour half-day shift, 40-hour week, Monday through Friday, or Monday noon through Saturday noon by mutual agreement between employee and department.

C. Eight-hour day, Monday through Friday, and four hours Saturday morning, 44-hour week.

a. Department heads may, with the concurrence of the Director of Non-academic Personnel, and to the extent departmental budgets permit, grant requests of employees falling under Plan C to be permanently transferred to Plan B. Employees now working under a basic 44-hour week and eligible for a month's vacation who are thus transferred will suffer no reduction in total weekly or monthly compensation as a result of such transfer.

D. Eight-hour day, 44-hour week, beginning Monday and ending Saturday.

E. Eight-hour day, 44-hour week, beginning time rotated to provide seven-day service.

F. Eight-hour day, 48-hour week, beginning time rotated to provide seven-day service.

G. Eight-hour day, mealtime allowed as part of eight-hour shift, 48-hour week, beginning time rotated to provide seven-day service.

H. Twenty-four hour shift, alternating days.

### Work Schedules at Chicago

4. The work schedules recognized at *Chicago* are:

A. Eight-hour day, 40-hour week, Monday through Friday.

B. Seven and one-half hour day, Monday through Friday, 3½ hours Saturday mornings, 41-hour week, Monday through Saturday morning.

C. Eight-hour day, 44-hour week, beginning Monday and ending Saturday.

D. Eight-hour day, 44-hour week, beginning time to be rotated to provide for seven-day service.

E. Eight-hour day, 48-hour week, beginning time rotated to provide seven-day service.

5. All time in excess of the units of hours constituting the work day and the work week is overtime, and will be compensated at time and one-half in cash unless the local prevailing practice for this group varies from this procedure, in which case the local prevailing practice will be followed. By mutual agreement between a department and an employee, an employee may work overtime with equivalent time off at straight time providing that this does not conflict with local prevailing practice. Any time thus allowed must be used in the vacation year as defined in section VII-1-B. In accordance with the provisions of the Illinois Women's Eight Hour law, no woman employee shall work more than nine hours in more than one day of a calendar week, provided that such excess over eight hours in that day shall be deducted from the subsequent regularly scheduled employment time of that calendar week or the next calendar week if such excess occurs on Saturday, and provided further that the total time of employment in no event shall exceed 48 hours in any one calendar week.

*Exceptions:* Graduate nurses, telephone operators, and employees engaged as a result of public emergencies, seasonal canning operations, etc., as defined in the Law.

6. Women employees shall be allowed rest periods of 15 minutes each half day at times to be arranged by supervisors within the work day.

7. Full-time employees may be permitted to enroll in academic classes in the University provided, if such enrollment is within regularly scheduled working hours, it is taken from regularly scheduled working hours and deduction is made from required schedule and from regular pay or time allowed for classes is made up in full or deducted from vacations. All such enrollments and the arrangements relating thereto are to be reported to the Director of Nonacademic Personnel, who shall submit a report of them to the Provost at least annually. Time in attendance on training programs or University classes, when requested by the department, shall not be deducted from employee's required schedules. (Conditions relating to registration and fees are covered in regulations of the Board of Trustees on those matters.)

## V. SUNDAYS

As a general rule, University buildings will be closed and no work will be required on Sundays except as follows:

1. In those positions in which seven-day service is required, *except as otherwise provided* (see section IV-3), Sunday is not recognized as such but as a regular work day, and is offset by a seventh day off. (Schedules are available showing classifications in which such service is required.)

2. In all other cases, work on Sundays is overtime and will be compensated as provided in section IV-5.

## VI. HOLIDAYS

1. Offices, laboratories and shops will be closed and employees excused except in emergency and for necessary operations on the following legal holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

Permanent and continuous employees not in a prevailing rate group will be excused with full pay.

Employees in prevailing rate groups will be excused from work and will be compensated in accordance with the local prevailing practice, except those whose normal work schedules are such as to require regular holiday work in accordance with local prevailing practice.

(See section III-1-A-a.)

2. In the event that work on any of the above holidays is required:

A. Prevailing rate groups will be compensated in accordance with prevailing practice.

B. Other employees will be compensated at time and a half payable in cash in addition to regular compensation.

3. Suspension of work at other times will be only with the approval of the President of the University.

## VII. VACATIONS

1. Vacations are granted only to permanent and continuous employees who complete not less than eleven consecutive months of service.

A. During the first year of service a proportionate part of the annual vacation will be granted based on the months of service of the employee completed to the date of vacation, subject to completion of not less than eleven consecutive months of service. In each succeeding year the employee will receive the annual vacation as set forth below. In the year in

which the employee leaves the service of the University for any reason, including death, a proportionate part of annual vacation will again be granted.

**B.** Annual vacations may be taken during a one year period extending from three months prior to the end of a full year of service to nine months after the end of a full year of service. Vacations shall not be cumulative but may be deferred at the request of the department or the employee with the concurrence of the department. Such deferred vacations shall be taken within the next succeeding twelve-month period. Extra pay in lieu of vacation will not be allowed. An employee's preference as to time of vacation will be considered but the University reserves the right to assign vacation periods. Holidays recognized by the University are not counted as part of a vacation.

**C.** A part-time continuous employee will receive the annual vacation provided for his classification at his usual pay. (For example, a person employed half-time in a position in which two weeks is the annual vacation allowance will be granted two weeks vacation at a salary based upon half-time.)

**2. The University recognizes three vacation plans as follows:**

**A.** One month vacation in each year of service. Department heads, with the concurrence of the Director of Nonacademic Personnel, and to the extent departmental budgets permit, may grant requests of employees falling under Plan A (excepting administrative employees) to be permanently transferred to Plan C.

**B.** Progressive vacation schedule: two weeks in each of the first two years of service, three weeks in each of the next two years of service, one month in the fifth and each succeeding year of service.

**C.** Two weeks vacation in each year of service.

Each employee classification is allocated to an appropriate vacation schedule. [Schedules for Urbana and Chicago have been supplied to all interested employees and officers of the University.] Changes in these schedules will be made when approved by the Director of Nonacademic Personnel. Employees in groups concerned will be notified of all such changes.

## **VIII. DISABILITY BENEFITS**

**1. Disability arising out of and in the course of employment:**

**A.** Employees who suffer disability arising out of and in the course of their employment will receive compensation as determined by the University Committee on Accident Compensation for Employees in accordance with the provisions of the Workmen's Compensation Act.

**B.** Such employees may elect to use portions of allowances for disability provided under sub-section B hereof to supplement payments made

under the Workmen's Compensation Act, provided that in no case during a period of disability shall total payments exceed the full compensation paid the individual at the time the disability occurred.

C. An employee entitled to disability benefits under the University Retirement System of Illinois may receive from that System only the difference between the benefits available from the Retirement System and the amount paid in accordance with the Workmen's Compensation Act.

**2. Disability from any cause not arising out of and in the course of employment:**

A. Each full-time, permanent and continuous employee is entitled to a disability leave of two work weeks with pay in each year of service, no part of which shall be cumulative. Any full-time, permanent and continuous employee who is disabled before completing his first year of service will be allowed the same proportionate amount of the two work weeks disability leave as the proportion of the year completed.

B. In addition to the leave provided in the preceding paragraph, each full-time, permanent and continuous employee who has served for one full year is entitled to an extended disability leave of one work week for each year of service, cumulative to a total of ten work weeks, which shall be allowed to reaccumulate to this maximum through additional service after being used in part or in full. No reduction shall be made in accumulations for prior service earned before March 1, 1944.

C. Disability benefits available to employees shall be used in the following order: (a) the two work weeks disability leave, (b) vacation to which entitled *when requested by the employee*, (c) extended disability leave, as provided in the preceding paragraph.

D. An employee when disabled may continue to receive full pay until the two work weeks disability leave and his accumulated extended disability leave are exhausted. If an employee elects to receive disability benefits under the University Retirement System of Illinois before he has exhausted his extended disability leave, he will receive no payments from the University of Illinois during the period that disability benefits are received from said Retirement System.

**3. Other disability benefits:**

**A. Persons under University Retirement System:\***

a. All persons permanently and continuously employed by the University and who are 30 years of age or over must become participants in the University Retirement System of Illinois established by a special act of the General Assembly approved July 21, 1941. Persons thus employed who are under the age of 30 may elect to participate. A deduction of 3½% is made from each payment of salary or wage to every participant in the system. This contribution is placed to the credit of the individual and draws interest

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\*These provisions are summaries of the benefits payable under the University Retirement System Act.



(at 3% at this date) which is added to his contribution. The total accumulations with interest may be withdrawn by the individual on his separation from University employment.

b. Disability benefits from the System are payable to any participant for mental or physical disability arising from any cause as a result of which the individual is unable to perform the duties of his position. Benefits begin 60 days after the beginning of the disability, provided an application has been filed and salary is suspended. Benefits amount to 50% of the earnings at the time disability occurred and continue during disability until the total paid is 50% of the total earnings during service.

B. Other persons:

(See section X-2).

4. The University reserves the right to require acceptable evidence of disability before allowing any disability benefits whatsoever.

## IX. LEAVES OF ABSENCE

1. Leaves of absence *without* pay for reasons other than disability, as covered in section VIII, may be granted by the University through the Director of Nonacademic Personnel when in his judgment the recommendations are reasonable and have the approval of the supervisor of the employee.

2. Leaves of absence *with* pay on account of death or illness of relatives may be granted by the Director of Nonacademic Personnel to the extent considered reasonable and necessary in each case, taking into consideration length of service, condition of work in the department, previous leaves granted the employee, and recommendation of department head.

3. Leaves of absence for jury or witness service and to serve in the State Militia shall be granted when employees are called for such service. Pay for such leaves will be computed as the difference between the amount paid for the service and the regular full-time salary or wage of the person on such leave.

4. Leaves of absence without pay for service in the armed forces of the United States shall be granted when an employee enlists in or is inducted into such service. Such an employee will be restored to his former position, or, at the discretion of the University, to one of similar requirements and compensation, if: his discharge is under conditions other than dishonorable; he requests reemployment within 90 days after his discharge; he is qualified to perform the duties of his position. If, as a result of service in the armed forces, he is not physically or mentally qualified to perform the duties of any such position, the University will offer him employment in a position which

his physical and mental condition permits him to perform, at the rate of compensation provided for that position.

5. Leaves of absence for other approved work may be granted on request by the President of the University and extended at his discretion. A person receiving such a leave will have the right to return to his former position at the termination of his leave provided he is in a satisfactory physical and mental condition to resume the duties of the position, and provided the position has been continued during his absence. If the position has been discontinued, the person on leave will be eligible to appointment to any position in his classification which becomes vacant at or subsequent to his return.

## **X. RETIREMENT BENEFITS\***

1. Participants in the University Retirement System are retired on September 1 following their 68th birthday unless deferment is approved by the University. Under certain conditions, persons employed prior to September 1, 1941, may request retirement after age 65 and if retired with 25 or more years of service receive the same annuity which would be paid at 68. Participants may elect to retire at any time after age 60 or with the approval of the University and of the Retirement Board between the ages 55 and 60. Retirement in such instances is at a reduced annuity.

*Interrupted employment.* Employees who are participants in the Retirement System and whose employment is irregular maintain their participation in the Retirement System under the following conditions: Death and disability benefits of the Retirement System continue in force during a period of three weeks following the payroll period for which the employee last received salary or wages. At the end of the three weeks, the employment of the individual will be considered terminated and he may withdraw his contributions to the System plus interest; or he may leave his contributions on deposit, in which case, if he is again employed, contributions and benefits will be resumed and accumulated benefits of all kinds restored as of the date employment ceased.

2. Persons not participating in the University Retirement System who have been employed for not less than five years and become permanently disabled or otherwise physically unfit for service may be retired. Such persons receive an allowance from the University for a period of years equal to their years of service. The annual rate of this

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\* These provisions are summaries of the benefits payable under the University Retirement System Act.

allowance is a percentage, 25% plus  $\frac{1}{2}\%$  for each year of service, of the average annual cash compensation, but not less than \$300 per year.

### **XI. DEATH BENEFITS\***

1. For employees participating in the Retirement System a death benefit approximately equal to one year's salary, not less than \$2,000 or more than \$5,000, is payable by the Retirement System, if the beneficiary is dependent upon the participant. Otherwise the death benefit will be the employee's accumulated contributions. After retirement a death benefit is payable equal to whichever of the following is the greatest:

A. The accumulated employee contributions, including interest, at the time of retirement less the sum of all annuity payments prior to the date of death;

B. Six times the monthly Supplemental Annuity paid for service prior to September 1, 1941;

C. \$500.

2. For persons not in the Retirement System, a death benefit is payable by the University after the first year of service, ranging from 10% of compensation in the second year to 50% in the tenth and succeeding years, but not in excess of \$3,000.

3. In accordance with section VII-1-A, payment will be made for any accumulated unpaid vacation allowances.

### **XII. REPORTS OF ABSENCES AND OVERTIME**

1. Every absence of one hour or more of any nonacademic employee is to be reported by the department to the Office of Nonacademic Personnel on forms provided by it.

2. All overtime to be compensated by time off shall be reported by the department to the Office of Nonacademic Personnel on forms provided by it.

### **XIII. GRIEVANCES**

Grievances shall consist of all matters of dispute affecting the employer-employee relationships excepting those set out in sections III to IX inclusive, other than questions of interpretation of those sections in individual cases and except as stated in paragraph 5 of this section. If any employee has a grievance which he desires to have considered, he shall present it in the following manner:

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\* These provisions are summaries of the benefits payable under the University Retirement System Act.

**1.** The employee, or, if he is a member of a collective bargaining unit, his authorized representative, shall submit the matter in writing to his immediate supervisor or to his next higher ranking supervisor within two work days. The supervisor shall answer the grievance in writing not later than two work days after it is presented to him. If the grievance is not presented within two work days as provided herein, the right to have it considered is thereby waived. If the supervisor fails to answer the grievance within two work days, it shall be considered settled in favor of the employee.

**2.** If the employee, or in case of a collective bargaining unit his authorized representative, is not satisfied with the decision of his immediate supervisor, the grievance shall then be presented in writing by the employee or his authorized representative to the next ranking supervisor. Such grievances must be presented by the employee or his representative within five work days after the date of the immediate supervisor's answer in the previous step of the grievance procedure unless the next ranking supervisor agrees that more time is needed to obtain necessary information. That supervisor shall answer any grievance in writing within five work days from the date the grievance was presented to him unless the employee agrees that more time is needed to obtain necessary information.

Any decision which is not appealed by the employee or his authorized representative within five work days shall be considered settled and binding on the employee and the University. Failure of the supervisor to answer the grievance within five work days after the appeal is presented to him shall be considered a decision in favor of the employee.

**3.** If the decision of the supervisor under paragraph 2 is not satisfactory to the employee, the grievance, together with the written record of the case, shall be referred by the employee or his authorized representative to the Director of Nonacademic Personnel for decision. Before reaching a decision, the Director of Nonacademic Personnel shall discuss the grievance with the employee or his authorized representative and the administrative head involved.

**4.** If the decision of the Director of Nonacademic Personnel is not accepted by the employee, the case, on request of the employee, shall be referred to a board of arbitration. The board of arbitration shall be composed of two representatives appointed by the University, two appointed by the employee or his authorized representative, and a fifth chosen by those four. A decision approved by any three of the board of arbitration shall be accepted by the employee and the University Board of Trustees as a final settlement of the grievance.

5. Cases of suspension may be appealed by or on behalf of an employee in accordance with paragraphs 1 to 3 of the foregoing procedure. The Director of Nonacademic Personnel is authorized to make final decision in such cases.

6. Time spent by an employee or his representative, if the representative is a University employee, or both in settling grievances shall be paid for in accordance with the provisions of section II-2. If an organized group is involved, it is understood that the term "representative" may include a steward or grievance committee or both from the employee group concerned, but from that group only, in so far as payment for time is concerned. In no case, however, shall any employee leave his post or duty without the knowledge of and permission from his foreman or immediate supervisor, which permission shall normally be given, subject to necessary emergency exceptions.

7. The procedure relating to discharge shall be handled in accordance with the civil service laws which entitle the employee on his request to a hearing by or before the Board of Trustees or by or before some officer or body appointed by the Board of Trustees.

8. The term "work day" as used in this section shall not include days on which the employee or supervisor is absent because of disability, vacation or other authorized leave.

#### XIV. SENIORITY

Employees shall acquire seniority rights retroactive to date of employment after the completion of the probationary period of six months as provided in the University Civil Service Rules. Seniority shall be by classification,\* and seniority rights shall be limited to the locality in which the work is performed, that is, Urbana or Chicago. If an employee is on disability leave or is on leave for service in the armed forces of the United States, the tenure for seniority will continue as though he were continuously employed. If the employee is laid off for lack of work or if a leave, other than a disability leave or for service in the armed forces of the United States, is granted at the request of the employee, seniority will be based on the actual months of service in the classification.

If an employee accepts a position in a different classification, he may be given a leave for one year from his old classification, in order that he may preserve seniority for the months of service in that

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\* A bill now before the General Assembly would permit an individual who has been promoted within a promotional line fixed by the Board of Trustees, to retain seniority within the promotional line.

classification. After one year's service in the new classification, the employee's continuation in that classification will be deemed a waiver of seniority rights in the old classification.

#### **XV. ADMINISTRATIVE EMPLOYEES**

The Director of Nonacademic Personnel, on the advice of department heads, may designate certain nonacademic classifications as administrative. Classifications covered by the provisions of collective bargaining agreements shall not be considered for such designation. Compensation for employees in administrative classifications shall be determined entirely by the University. They shall not receive additional cash compensation for services in excess of the work week normally required in the position. They shall receive vacations of one month in each year of service. Advancement shall be based solely on merit as recommended by department heads except as general increases are granted to all employees subject to the provisions of section III-2 and 3.

#### **XVI. NOTICES OF EMPLOYMENT**

Notices of employment in all nonacademic classifications shall be issued by the Director of Nonacademic Personnel at the beginning of employment. These notices shall continue in effect until employment is terminated, or conditions of employment are changed, in which case a superseding notice will be issued. Such notices shall state the classification, compensation, effective date, and other conditions affecting the employment.