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The Teachers College Bulletin

Number 103

January 1, 1929

Eastern Illinois State Teachers College

AT

CHARLESTON

ANNOUNCEMENT OF THE
SUMMER QUARTER

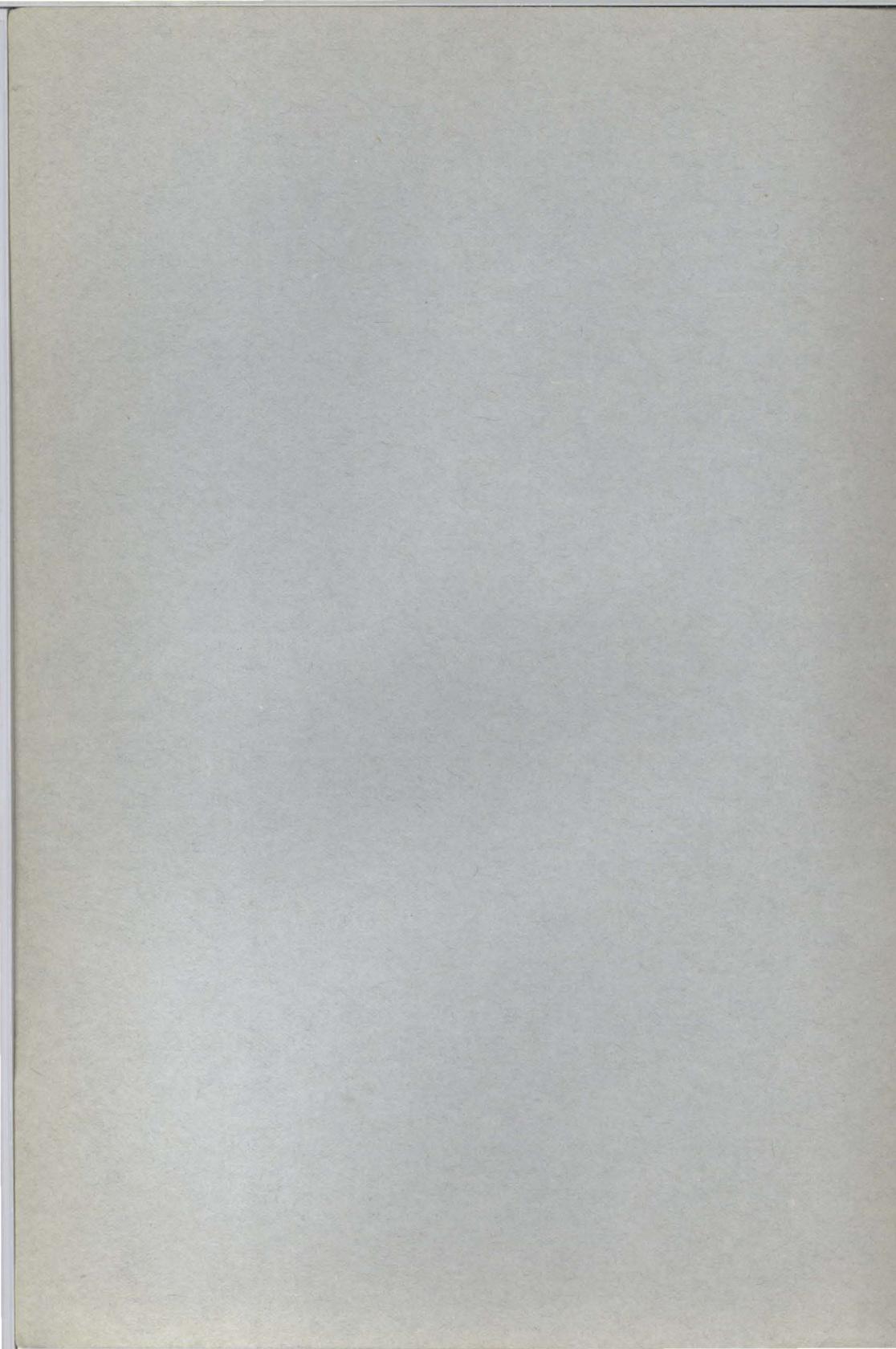
TWELVE WEEKS
1929

Mid-Spring Session, April 22—June 1

Summer Quarter:

First Six Weeks, June 8—July 19

Second Six Weeks, July 22—August 30



The Teachers College Bulletin

PUBLISHED QUARTERLY BY THE EASTERN ILLINOIS
STATE TEACHERS COLLEGE

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NO. 103

CHARLESTON, ILLINOIS

January 1, 1929

ANNOUNCEMENT OF THE SUMMER QUARTER TWELVE WEEKS

1929

MID-SPRING SESSION, APRIL 22—JUNE 1

SUMMER QUARTER

FIRST SIX WEEKS, JUNE 8—JULY 19

SECOND SIX WEEKS, JULY 22—AUGUST 30

Eastern Illinois State Teachers College at Charleston

(Printed by authority of the State of Illinois)

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STATE OF ILLINOIS
DEPARTMENT OF REGISTRATION
AND EDUCATION

THE NORMAL SCHOOL BOARD

EX-OFFICIO MEMBERS

A. M. SHELTON, Director of Registration and Education,
Springfield, *Chairman*

FRANCIS G. BLAIR, Superintendent of Public Instruction,
Springfield, *Secretary*

APPOINTED MEMBERS

1923-1929

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Ernest E. Cole, Chicago
James B. Loebner, Chicago

1925-1931

John C. Allen, Monmouth
Frank M. Hewitt, Carbondale
N. M. Mason, Oglesby

1927-1933

Edgar B. Still, DeKalb
Mrs. Martin K. Northam, Evanston
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Under the provisions of the Civil Administrative Code for the consolidation of State agencies under the direction of the Governor, the five State Normal Schools of Illinois are controlled by a single board consisting of eleven members; the Director of Registration and Education, who is *ex-officio* chairman, the Superintendent of Public Instruction, who is *ex-officio* secretary, and nine members appointed by the Governor for terms of six years.

THE FACULTY

FIRST HALF OF SUMMER QUARTER, 1929

LIVINGSTON C. LORD.....	President
A. M., Harvard University; LL. D., University of Illinois	
E. H. TAYLOR	Mathematics
A. M., Ph. D., Harvard University	
FRIEDERICH KOCH	Music
Conservatory of Music, Kassel, Germany	
ELLEN A. FORD.....	Algebra
A. B., A. M., Syracuse University	
ANNIE L. WELLER	Geography
B. S., The University of Chicago	
ISABEL MCKINNEY	English
A. B., The University of Chicago; A. M., Columbia University	
S. E. THOMAS.....	History and Government
Ph. B., Upper Iowa University; A. M., University of Iowa.	
EDITH E. RAGAN	English
Indiana State Normal School	
CHARLES P. LANTZ	Physical Education
B. S., Gettysburg College	
HOWARD DeF. WIDGER.....	English
A. B., Yale University	
FISKE ALLEN	Director of Training School
A. B., Indiana University; A. M., Columbia University	
L. F. ASHLEY	Manual Arts
B. S., Stout Institute	
RUTH E. MAJOR	School Music
B. S., Kansas State Normal School	
CHARLES S. SPOONER	Biological Science
A. B., Cornell University; A. M., University of Illinois	
GRACE E. MESSER.....	Fine and Applied Arts
Potsdam Normal School; Syracuse University	
LEAH I. STEVENS	Geography
B. S., The University of Chicago	
ORRA E. NEAL	English
Battle Creek College	
WAYNE P. HUGHES	Manual Arts
Stout Institute	
ERNEST L. STOVER	Botany
B. S., M. S., Ohio State University; Ph. D., The University of Chicago	
RALPH HAEFNER	Education
B. A., M. A., University of Minnesota	
H. HARRY GILES	English
A. B., Amherst College	
DOROTHY H. MOORE.....	Fine and Applied Arts
The Chicago School of Applied and Normal Art	
CHARLES H. COLEMAN.....	History
A. B., George Washington University; A. M., Columbia University	
LILLIE S. THOMPSON	Home Economics
B. S., Stout Institute	
WILLIAM B. SCHNEIDER	English
A. B., A. M., University of Illinois	
ALICE M. DANIELS	Mathematics
A. B., University of Minnesota	

VICK L. LANGFORDManual Arts
 B. S., Stout Institute

FRANK A. BEUEducation
 A. B., A. M., Northwestern University

BERTHA M. ALBERTEnglish
 B. Ed., Eastern Illinois State Teachers College

HARLAN L. HASSBERG.....Music
 Columbia School of Music

EMILY R. ORCUTT.....English
 Ph. B., A. M., The University of Chicago

CECIL F. HUMPHREYEducation
 A. M., The University of Chicago

ROSCOE PULLIAMEducation
 B. Ed., Southern Illinois State Normal University; A. M., University of Illinois

EDWIN T. SHEPPARDEducation
 A. B., Iowa State Teachers' College; A. M., The University of Chicago

..... Education

CHARLES McINTOSHRural Education
 Superintendent of Piatt County Schools

HELEN FERN DARINGEREnglish
 A. M., Columbia University

JUNE J. ASHLEY.....Manual Arts
 Indiana State Normal School

..... Mathematics

..... Mathematics

IRENE HUSSPenmanship
 A. B., Western State Teachers College, Gunnison, Colorado

R. J. SEYMOUR.....Physiology and Hygiene
 M. D., Ohio State University

..... Recreation Director

ICA MARKSLaboratory Assistant
 B. Ed., Eastern Illinois State Teachers College

MARSDON U. GRUBBLaboratory Assistant
 Eastern Illinois State Teachers College

GILBERTA COFFMANTraining Teacher, Sixth Grade
 Indiana State Normal School

ELIZABETH SPRINGSTUN.....Training Teacher, Fifth Grade
 Ph. B., The University of Chicago

MARJORIE DELAHUNTTraining Teacher, Fourth Grade
 A. B., Cornell College

FLORENCE E. GARDINER.....Training Teacher, Third Grade
 Wisconsin State Normal School

GRACE GEDDES.....Training Teacher, Second Grade
 Eastern Illinois State Teachers College; Columbia University

ANNA H. MORSE.....Training Teacher, First Grade
 Illinois State Normal University; Columbia University

AGNES F. HATCH.....Training Teacher, Rural School

MARY J. BOOTH.....Librarian
 A. B., Beloit College; B. L. S., University of Illinois

MAY SMITHAssistant Librarian
 B. S., University of Illinois

MYRTLE N. DUNLAPAssistant Librarian

LILLIAN M. WATERS.....Student Assistant Librarian

DOROTHY E. DUNLAP.....Student Assistant Librarian

LOUISE K. STILLIONS.....Student Assistant Librarian

GRACE EWALTSecretary and Business Manager

BLANCHE C. THOMAS.....Registrar

ELEANOR F. HAMMONDStenographer

EDITH C. WILLSONStenographer

CAROL L. BESTELANDHead of Pemberton Hall

ANGELINE K. SCHMITTNurse

WALTER H. NEHRLING.....Superintendent of Grounds
 Missouri Botanical Gardens

THE FACULTY

SECOND HALF OF SUMMER QUARTER, 1929

ALBERT B. CROWE	Hygiene
A. M., Hanover College	
CHARLES P. LANTZ	Arithmetic
B. S., Gettysburg College	
HOWARD DeF. WIDGER	English
A. B., Yale University	
L. F. ASHLEY	Manual Arts
B. S., Stout Institute	
CHARLES S. SPOONER	Zoology
A. B., Cornell University; A. M., University of Illinois	
GRACE E. MESSER	Fine and Applied Arts
Potsdam Normal School; Syracuse University	
WAYNE P. HUGHES	Manual Arts
Stout Institute	
RALPH HAEFNER	Education
B. A., M. A., University of Minnesota	
H. HARRY GILES	English
A. B., Amherst College	
RUBY M. HARRIS	Geography
B. S., The University of Chicago	
CHARLES H. COLEMAN	History
A. B., George Washington University; A. M., Columbia University	
FRANK A. BEU	Education
A. B., A. M., Northwestern University	
EARL DANIELS	English
A. B., Clark College; A. M., The University of Chicago; Ph. D., Harvard University	
.....	Botany
JUNE J. ASHLEY	Manual Arts
Indiana State Normal School	
ICA MARKS	Laboratory Assistant
B. Ed., Eastern Illinois State Teachers College	
.....	Music
MAY SMITH	Librarian
B. S., University of Illinois	
LILLIAN M. WATERS.....	Student Assistant Librarian

GENERAL INFORMATION

Purpose and Plan.—The summer quarter of the Eastern Illinois State Teachers College at Charleston, begins on Saturday, June 8. The first six weeks' term closes on Friday, July 19. The second six weeks' term begins on Monday, July 22, and closes on Friday, August 30. Provision has been made to meet the needs of four classes of students:

1. Teachers of experience who wish to advance their professional or academic knowledge.
2. Supervisors and department teachers.
3. Graduates of recognized four-year high schools who wish to take regular work with a view to graduation from the Junior College.
4. Graduates of the Junior College who wish to begin the work of the Senior College. The summer quarter offers the required junior credits in English and in education. The three credits required in a laboratory science may be earned in Botany 20, 21, 22 or Zoology 20, 21, 22.

Admission.—Graduates of recognized four-year high schools and holders of teachers' certificates are admitted to the summer quarter. Enrollment of students begins at eight o'clock, Saturday morning, June 8, and continues through Monday, June 10. Class work begins Tuesday morning, June 11, at a quarter past seven o'clock. Enrollment for the second half begins at eight o'clock, Monday morning, July 22. Class work begins Tuesday, July 23.

Credit.—A Teachers College credit is the equivalent of twelve weeks' work in a course requiring preparation and meeting four hours a week when the student load of prepared work is the equivalent of sixteen hours a week. It is equivalent to two and one-half semester hours, or four quarter hours.

A semester hour is the equivalent of one hour of prepared work for eighteen weeks when the student load of prepared work is fifteen hours a week.

A quarter hour is the equivalent of one hour of prepared work for twelve weeks when the student load is sixteen hours a week.

Credit is given for all courses equivalent to courses in the regular school year. A statement as to the amount of credit is given under each course. Fractional credits in unrelated courses cannot be offered as making a credit toward graduation. Students are urged to read carefully the description of the courses in order to choose wisely those suited to their needs and to their ability. Two credits may be earned in each six weeks. No student is permitted to register for more than two and three-fourths credits.

No examinations for credit in courses for which a student is not registered are given in the mid-spring session or summer quarter. Students who are here in the regular year may ask then for credit by examination in any courses for which they think they should receive credit by examination.

Renewal of Certificates.—A certified statement of professional training is required for the second renewal of a second grade elementary school certificate. For the eighteen weeks' work required by law, six credits are necessary. Two of these credits may be earned in a six weeks' term. No additional credit is earned by taking for the second time a course in which the student has already received a passing grade.

Expenses.—Tuition is charged for the summer quarter to all who are not to teach in Illinois for a period equal to that covered by their attendance at the Eastern Illinois State Teachers College. This tuition is charged at the rate of \$25.00 a quarter of twelve weeks, or \$12.50 for each six weeks. No tuition is charged for the summer quarter to those who are to teach in Illinois. A registration fee of two dollars for each half term covers all expenses in the zoological, botanical, physical, and chemical laboratories, in the library, and in other departments of the school. Students pay for materials used in drawing, manual training, and home economics. All necessary textbooks are rented to students in the summer quarter for one dollar and fifty cents for each six weeks. Each student pays a recreation fee of one dollar. The fee for instrumental music or for voice lessons is \$5.00 for each six weeks.

An additional fee of one dollar is paid for late registration by every student who does not complete his registration on the day or days appointed for registration; and for change of programme after the third day.

Board and room in Pemberton Hall cost \$7.50 a week; board costs \$5.50 a week. In private families, the cost is about the same. A committee from the faculty and students assists students in selecting boarding places and rooms.

Following is an estimate of expenses for a six weeks' session:

Registration fee	\$ 2.00
Book rent	1.50
Recreation fee	1.00
Board for six weeks.....	33.00
Room rent, six weeks, two in a room, each.....	12.00
Laundry	4.50
Total	<u>\$54.00</u>

Registration.—Directions for registering on Saturday, June 8, and on Monday, June 10, 1929, 8:00 to 12:00 a. m. and 1:30 to 5:00 p. m. and for the second six weeks on Monday, July 22, at 8:00 a. m.:

1. Arrange for board and room and keep a record of your street and number, your telephone number, and the name of the householder.
2. Pay registration fee (\$2.00), book rent (\$1.50), and recreation fee (\$1.00), or leave scholarship at the cashier's office and pay the recreation fee (\$1.00). Students who enter after Monday, June 10, for the first six weeks, or after Monday, July 22, for the second six weeks, pay a fee of \$1.00 for late registration.
3. Go to a faculty adviser and have a programme marked with the courses for which you wish to register.
4. Take the marked programme to the textbook library and receive your books.
5. Report for regular class work beginning at 7:15, Tuesday morning, June 11, for the first six weeks; on Tuesday, July 23, for the second six weeks.
6. Between noon on Tuesday, June 11, and Friday afternoon, June 14, at 4:00 o'clock, go to the textbook library and get your registration blank. There should be no delay in doing this after you are sure your programme is satisfactory to you.
7. Fill out this blank in ink beginning with the back of the blank.
8. Take the completed blank to a student clerk and receive class cards to be filled out and returned to clerk for inspection. All blanks and cards must be returned to the registrar not later than the close of school on Friday, June 14.
9. No credit is given for any course for which you have not made out a class card for the registrar. This card is used in reporting your grades at the close of each six weeks.

10. No change of programme should be made after you have completed your registration on Friday, June 14. If any mistake has been made, go to the office with your trial programme and ask to have the mistake corrected.

11. A student may drop a course by handing in at the textbook library a slip with the date, his name, and the hour and name of the course to be dropped. He must at the same time return any textbooks taken out for that course.

12. No other change in programme should be necessary after Friday, June 14.

Announcements.—Morning exercises are held in the assembly hall daily at 8:05.

The assembly hall is a study room during all class periods from 8:35 a. m. to 3:40 p. m.

Students entering after Monday, June 10, go to the office for a marked programme and permission to register.

Every student should leave his Charleston address at the post-office. Mail is not delivered to students at the school.

Training School.—Opportunity is offered for observation and practice teaching in the first six grades and in a rural school. It is possible to accept only a few for places in practice teaching in the summer quarter. Preference is given to those whose freshman work has been completed with high standing, and to those beginning practice teaching in the mid-spring session. No student who has failed in practice teaching is permitted to take teaching in the mid-spring session or in the first half of the summer quarter.

Students wishing to take teaching in either the mid-spring session or the summer quarter should apply to the Director of the Training School at least two weeks before the opening of the summer quarter. The Training School is in session in the first six weeks from 9:30 to 12:00. At 11:20 a course in observation is offered which gives one-fourth of a credit toward renewal of a second grade certificate.

Pemberton Hall.—Room and board can be secured in this building by one hundred students at \$7.50 a week, and board by about fifty more at \$5.50 a week. Applications for rooms are filed in the order in which they are received. Those desiring rooms should write as early as possible, as the demand will be in excess of the number that can be accommodated.

A deposit of \$5.00 is required for a reservation at Pemberton Hall.

This deposit is credited to the student, but forfeited if the student cancels the reservation too late to have it used by some one else.

Gymnasium.—Adjoining Pemberton Hall is the gymnasium, a well-lighted and ventilated room, equipped with Swedish apparatus, stall-bars, climbing ropes and ladders, horizontal and vertical window ladders, jumping standards, vaulting box and horse, and two Swedish booms. There are separate dressing rooms with private lockers and numerous shower baths. For outdoor work there is a large athletic field with a quarter mile cinder track and a baseball diamond, field hockey and basketball ground, and several tennis courts. The equipment of the gymnasium and playground will interest teachers of physical education and public school teachers who are seeking knowledge on this subject.

Practical Arts Building.—The Practical Arts Building for manual arts, industrial arts, and home economics is in use this summer. Space and equipment are provided, adequate for training teachers in these fields. Both two-year and four-year curriculums are offered, but home economics students are advised to consider only the four-year Smith-Hughes curriculum.

Laboratories.—The botanical and zoological laboratories offer opportunities for experimental work and for verification of established

facts of life. An excellent four-room greenhouse contains many plants of unusual interest and serves, moreover, as an important adjunct to the botanical laboratories. Additional facilities for field observation and for obtaining laboratory materials are offered by a small lake and a forest plantation of six thousand trees, all of which are within five minutes' walk of the biological laboratories. The laboratories of physics and chemistry contain the best of apparatus, essential to higher work, as well as many inexpensive and practical devices which can easily be reproduced in the grade or country school. The school has a four-inch equatorial telescope which is of special interest to teachers of geography.

School Garden.—An opportunity is given of seeing the work done by pupils of the Training School in agriculture. Small plots of ground are planted and cared for by pupils under the direction of the gardener and the teacher. Connected with the students' garden are a model vegetable garden, a rose garden, and a garden for experimentation and exhibition purposes. All of these divisions are used for demonstrating the proper care of plants, the methods of propagation, crop rotation, and some of the principles of plant breeding.

Library.—The library, containing over 34,000 books and pamphlets, is open to all summer school students. During the summer quarter of 1928 books on the following subjects were exhibited:

1. Books of poetry for children.
2. Readers and reading.
3. Helps for rural school teachers.
4. Arithmetic.
5. Pamphlets on geography.

For those who wish to obtain titles of books suitable to buy for school libraries lists selected by those familiar with children's books are provided and conferences with the librarian are arranged. An elementary course in the use of the library is offered. Information as to this course is given in the "Description of Courses."

Regular School Year.—The fall quarter of the college year of 1929-1930 will begin Saturday, September 7, at eight o'clock in the morning. A bulletin with full information will be sent to those who are interested.

Mid-Spring Session.—The Mid-Spring session of six weeks opens on Monday, April 22, and closes on Saturday, June 1. The fees are the same as for a six weeks' summer session. The programme is on page 2 of this bulletin, facing the table of contents.

Organization.—The Teachers College consists of the Junior College and the Senior College, each offering two years of work. Graduation from a recognized four-year high school is required for admission to the Junior College. The work of the Junior College in all two-year curriculums leads to a diploma which gives a "first grade elementary school certificate, valid in the first ten grades of the common schools of the county;" and also to a special diploma in art, English, home economics, manual arts, or music in case of students in those curriculums; or it admits the student to the Senior College. The work of the Senior College leads to the degree of Bachelor of Education and aims to prepare high school teachers, principals, superintendents, supervisors, department teachers, and teachers of special subjects. Twenty-four credits are required for graduation from the Junior College and twenty-four additional credits for graduation from the Senior College. In addition to the required number of credits, physical education, penmanship, and work in the use of the library are required.

Curriculums.—I. Two-year Curriculums (24 credits) for preparation of teachers for the grades, or of special teachers of art, English, home economics, manual arts, or music.

II. Four-year Curriculums (48 credits each) for preparation of the following:

1. Primary Teachers.
2. Grammar Grade Teachers, High School Teachers, and Teachers of Special Subjects:
 - B. Art and Design
 - C. English
 - D. Foreign Language
 - E. Geography
 - F. History
 - G. Home Economics (Smith-Hughes)
 - H. Manual Arts
 - I. Mathematics
 - K. Science (Biological)
 - L. Science (Physical)

The Two-Year Diploma Curriculum

Freshman Year	Sophomore Year
Psychology 20, 21, 22	Education 20, 21
English 20, 21, 27 (or 24 or 22)	Teaching 20, 21, 22
Arithmetic 20, 21	History (two credits)
Botany 20, or 21, or Zoology 20	Music 24
Geography 20	Manual Arts 24 or 25
Reading 24	Geography 21 and English 26 (or
Drawing 24	English 23 and Education 24)
Penmanship 20	Hygiene 20
Library 20	Physical Education
Physical Education	

Notes: 1. The completion of the work of the freshman year entitles the student to recommendation for a second grade certificate without examination.

The completion of the sophomore year entitles the student to the diploma of the Junior College and to a first grade certificate.

2. A credit is the amount of work done in a course requiring preparation and meeting four periods a week for a quarter (12 weeks) when the student load of prepared work is the equivalent of sixteen periods a week.

3. Each course has four fifty-minute periods a week unless otherwise indicated by a number in parentheses; but laboratory sciences have six fifty-minute periods; manual arts and home economics require eight periods a week for full credit.

4. Students who have had Geography 2 in the Teachers College High School substitute an elective credit for Geography 21. Students who had Botany 1, 2, 3 in the Teachers College High School take Botany 22 for Botany 20. For the year of college botany, they take Botany 30, 31, 22.

5. Physiology 20 may count as elective credit.

6. Since the numbers of courses in the summer bulletin are the same as those of the courses listed in the two-year curriculum no table of equivalents is necessary.

SUMMER QUARTER PROGRAMME**First Six Weeks****EXPLANATORY NOTES**

A student may complete two credits in each six weeks. It is not advisable to attempt to complete more than two credits in six weeks.

Courses marked with an asterisk are double courses, completing in six weeks the work of twelve weeks. Double courses have two periods a day except on Thursdays and Saturdays when they omit the second period.

Single period courses omit Friday morning or Saturday afternoon periods.

The periods for science courses are indicated by Arabic numerals following a dash, the numbers showing the days of the week counted from Monday as one.

Students are urged to read carefully the description of a course before deciding to take it.

The Training School is in session from 9:30 to 12:00.

The programme for the second six weeks may be found on the last page of this bulletin.

Courses numbered 1-19 count regularly below the freshman year of the College. Courses numbered 20-29 are required in one or more of the curriculums for graduates of recognized four-year high schools and are elective in any curriculum in which they are not required. Courses numbered 30 or above are elective for college students. Courses numbered 40 or above are Senior College courses.

The numbers of courses in the summer bulletin are the same as in the annual catalogue, but the numbers of courses not offered in the regular school year have not been changed to correspond with our present plan for numbering courses. A letter added to the number of a course indicates that the course covers only a part of the course for which the number stands, (a) being the first half, (b) the second half.

DESCRIPTION OF COURSES**ART**

At least one hour's work a day, outside of class, is required in each one-period course in art; two hours outside of class are required in each double period course.

24. **Elementary Drawing.**—The course includes lettering, composition, free hand perspective, color harmony, and their application in poster work.

24a. **First Half Course 24.**—Four hours a week. One half credit.

First six weeks:

Section I, 8:35, Third floor east, Mrs. Moore.

Section II, 9:30, Third floor east, Mrs. Moore.

Second six weeks:

11:20, Third floor east, Miss Messer.

24b. **Second Half of Course 24.**—Prerequisite: Drawing 24a. Four hours a week. One half credit.

First six weeks:

Section I, 10:25, Third floor east, Mrs. Moore.

Section II, 11:20, Third floor east, Mrs. Moore.

Second six weeks:

10:25, Third floor east, Miss Messer.

36. **Industrial Arts for the Lower Grades.**—Paper work, weaving, wood work, simple basketry, knotting, clay, and other mediums used in the lower grades. Eight hours a week. One credit.

First six weeks:

8:35 and 9:30, Third floor east, Miss Messer.

37. **Industrial Arts for the Upper Grades.**—More advanced work in woodworking, basketry, clay, and other mediums. Eight hours a week. One credit.

Second six weeks:

8:10 and 9:30, Third floor east, Miss Messer.

49. **Commercial Design.**—Decorative composition and lettering. Application to high school annual and to other school publications. Eight hours a week. One credit.

First six weeks:

10:25 and 11:20, Third floor east, Miss Messer.

EDUCATION

I. Education

12. **Country-School Teaching.**—This course is a careful study of the Illinois State Course of Study. It is given in two parts:

12a. **First Part, Lower Grades.**—Four hours a week. One half credit.

First six weeks:

9:30, Room 36, Mr. McIntosh.

12b. **Second Part, Upper Grades.**—Four hours a week. One half credit.

First six weeks:

10:25, Room 36, Mr. McIntosh.

13. **Rural Education.**—The course deals with the organization, supervision, and maintenance of country schools and with the organizations co-operating with these schools. Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 36, Mr. McIntosh.

20. **Principles of Education.**—Through discussion of the nature and aims of education, foundations are laid for notions of educational values, selection of the curriculum, methods of teaching, and school administration. Prerequisite: Psychology 20 and 21, or experience in teaching. Eight hours a week. One credit.

First six weeks:

Section I, 8:35 and 2:45, Room 36, Mr.....

Section II, 8:35 and 2:45, Room 38, Mr. Pulliam.

Second six weeks:

7:15 and 1:50, Room 10, Mr. Beu.

21. **School Management.**—The course is designed primarily for those who have had some experience in teaching and wish to study their problems of class management and instruction. School organization and control, including the making of a programme, discipline, and kindred topics, are discussed. Methods for securing study and attention to the recitation and conditions determining desirable class activity are emphasized. Prerequisite: Psychology 20 and 21, or experience in teaching. Eight hours a week. One credit.

First six weeks:

Section I, 7:15 and 10:25, Room 29, Mr. Allen.

Section II, 7:15 and 1:50, Room 26, Mr. Beu.

Second six weeks:

8:10 and 2:45, Room 10, Mr. Beu.

44. **Educational Measurements.**—The aim of this course is to introduce the student to the application of the statistical method to the solution of educational problems; to acquaint him with standardized and proposed tests for measurements of general mental ability and with scales for the measurement of progress of the child in school subjects and for the determination of efficiency of teaching. Opportunity is given for the development through practice of some skill in the application of tests and the employment of scales. Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 18, Mr. Haefner.

45. **The Psychology of Secondary Education.**—The purpose of this course is to trace the psychological principles which are basic to the teaching of high school subjects. General types of learning are discussed, such as: motor learning, association learning, problem-solving, habit-formation. High school subjects are analyzed and the relations of the general types of learning to particular subjects are pointed out. The general organization of the high school as it is determined by the nature of the adolescent student is touched upon. Eight hours a week. One credit.

First six weeks:

8:35 and 2:45, Room 17, Mr. Haefner.

48. **School Organization and Administration.**—This is an introductory course for students who desire a knowledge of problems in educational organization, administration, and supervision in the nation, the state, and local units. The first half of the course gives an understanding of the problems of administration to enable all members of an organization to co-operate with those in final administrative authority in the formulation of policies. The second half of the course presents the problems of the elementary and high school principal in organizing and administering schools. School law and finance as well as current educational problems receive attention in this course. Eight hours a week. One credit.

First six weeks:

9:30 and 10:25, Room 10, Mr. Beu.

II. Observation and Methods

1. **Rural School Methods and Management.**—The class discusses the work of a one-room school in which many grades are taught. The subject matter planned in the State Course of Study and other matters vital to the management and instruction of a rural school are presented. Five hours a week. One fourth credit when offered with Course 3 (making one half credit for the two courses combined). This credit counts only toward the renewal of a second grade certificate.

First six weeks:

11:20, Room 6, Miss Hatch.

3. **Rural School Observation.**—Students spend fifty minutes each day watching regular class room work with a group of pupils ranging in age from five to fifteen years. In Course 1, these exercises and others suggested in the State Course of Study are discussed. Five hours a week. One fourth credit when offered with Course 1 (making one half credit for the two courses combined). This credit counts only toward the renewal of a second grade certificate.

First six weeks:

10:25, Room 6, Miss Hatch.

5. **General Observation.**—This course offers an opportunity to observe and study the methods and technique of teaching in one or more grades of the student's choice. The class meets daily at 11:20 for observation and discussion. The training teacher teaches the pupils for twenty-five minutes, then dismisses the pupils and discusses the lesson with the observers for the remaining twenty-five minutes of the period.

Students registering for this course should indicate the grade in which they wish to observe. Five hours a week. One fourth credit toward the renewal of a second grade certificate.

First six weeks:

11:20, Training School, Training Teachers.

Note.—For free observation see paragraph headed, "Training School."

III. Practice Teaching

20a, 20b, 21a, 21b, 22a, or 22b. **Practice Teaching.**—A limited number of students are admitted to practice teaching in the mid-spring session and in the first six weeks of the summer quarter. See "Training School."

IV. Psychology

Note.—Beginning with the fall term, 1928-29, a change was made in the content of the three courses in education required of freshmen and called "Psychology 20, 21, 22." The new courses are listed this summer under the old names in order not to confuse students.

Those who have had the old Psychology 20 should complete the year's work by taking the new Psychology 20 and 22. Those who have had the old Psychology 20, 21, complete the year's work by taking Psychology 22.

Students who have not had the old Psychology 20, 21, 22 take the new courses in education listed here as "Psychology 20, 21, 22."

In our next annual catalogue, these courses will be given under education.

20. **An Introduction to Education.**—This course is intended to provide the student with a general view of the more important phases of a teacher's work. The meaning and the interrelation of the following matters form the subject matter of the course: the organization of public education; the teacher's relation to other school officials; school property; the materials of education; methods of using school material; the learning process; qualifications of teachers; the purpose of public education. The succeeding courses in education will deal in greater detail with the several topics introduced in this beginning course. Eight hours a week. One credit.

R. 25	R. 25	R. 25	R. 25	R. 25				
II Arithmetic 21*	III Arithmetic 21*				II Arithmetic 21*	III Arithmetic 21*		
R. 27	R. 27							
	Arithmetic 21a Mr. Lantz	Arithmetic 21b Mr. Lantz	Coaching 33 Mr. Lantz	Phys. Educ. 30 Mr. Lantz				
	R. 37	R. 33	R. 33	R. 33 and G				
Sociology 43* Mr. Thomas	History 31* Mr. Thomas				Sociology 43*	History 31*		
R. 35	R. 35							
History 34* Mr. Coleman	History 33* Mr. Coleman				History 34*	History 33*		
R. 9	R. 9							
I Geography 20* Miss Stevens	II Geography 20* Miss Stevens				I Geography 20*	II Geography 20*		
R. 7 T	R. 7 T							
I Geography 21* Miss Weller	II Geography 21* Miss Weller				I Geography 21*	II Geography 21*		
R. 16	R. 16							
Hygiene 20a	Hygiene 20b	Physiology 20*						
Dr. Seymour		Third floor northwest						
	Art 36*		Art 49*					
	Miss Messer	Third floor northeast						
	I Drawing 24a Mrs. Moore	II Drawing 24a	I Drawing 24b	II Drawing 24b				
			Third floor northeast					
Botany 22*-2, 3, 5, 6		Botany 22*-2, 3, 5, 6		Botany 20*-2, 3, 5, 6		Botany 20*-2, 3, 5, 6		
Mr. Stover								
		Botany 43* or 44*, or 45*-2, 3, 5, 6						
		Zoology 43* or 44*, or 45-2, 3, 4, 5						
Zoology 20*-2, 3, 4, 5	Zoology 22*-2, 3, 4, 5			Zoology 20*-2, 3, 4, 5		Zoology 22*-2, 3, 4, 5		
Mr. Spooner								
	IV Penmanship 20 Mrs. Huss	II Penmanship 20	III Penmanship 20	I Penmanship 20				
	R. 8 T	R. 8 T	R. 8 T	R. 8 T				
Domestic Art 37a	Domestic Art 37b	Domestic Science 37b		Domestic Science 37a				
Miss Thompson	R. 22 P	R. 26 P		R. 26 P				
		I Manual Arts 24a	II Manual Arts 24a		III Manual Arts 24a	IV Manual Arts 24a		
		Mrs. Ashley	Manual Arts 47a, or 48a or 54a	R. 16 P	Mrs. Ashley	R. 16 P		
	I Manual Arts 24b	II Manual Arts 24b	Manual Arts 44a or 46a		Manual Arts 44a or 46a			
	Mr. Ashley	R. 11 P	Mr. Ashley	R. 19 P	Mr. Ashley	R. 4 P		
	Manual Arts 53a or 57a		Manual Arts 43a		Manual Arts 36a or 37a or 39a or 39b			
	Mr. Hughes	R. 19 P	Mr. Hughes	R. 4 P and 6 P	Mr. Hughes	R. 14 P		
	Manual Arts 30*, or 31*, or 32*, or 49*, or 50*		Manual Arts 33*, or 34* or 35*		Manual Arts 59* or 60* with two other periods			
	Mr. Langford	R. 16 P	Mr. Langford	R. 14 P	Mr. Langford	R. 17P		

Regular work gives two credits. No student is permitted to register for more than two and three-fourths credits. The number of the room is indicated in the lower right-hand corner of each space. The letter T indicates that the room is in the Training School; P, in the Practical Arts Building; G, in the Gymnasium. Drawing and music classes are held in the east end of the third floor of the Main Building. A Roman numeral preceding a course indicates the section of the class. An Arabic numeral after a course indicates the number of the course as outlined in the Description of Courses. The programme for the Second Six Weeks may be found on the last page of the Summer Bulletin.

* A double course, completing in six weeks the work of twelve weeks. Double courses have two periods a day except on Thursdays and Saturdays when they omit the second period. Single period courses, except penmanship, omit Friday morning or Saturday afternoon periods. The periods for science courses are indicated by Arabic numerals following a dash, the numbers showing the days of the week counted from Monday as one.

First six weeks:

- Section I, 7:15 and 1:50, Room 38, Mr. Pulliam.
 Section II, 7:15 and 1:50, Room 10, Mr. Sheppard.
 Section III, 8:35 and 2:45, Room 10, Mr. Sheppard.

Second six weeks:

8:10 and 2:45, Room 17, Mr. Haefner.

21. An Introduction to Educational Psychology.—This course uses the discussion on the learning process of the preceding course as its point of departure and introduces the student to the forms of student behavior by which man adapts himself to the world. The material of the course includes: the physical basis of behavior; the instinctive equipment of man; the emotions; the laws of learning and their economical application; the organization of experiences into percepts and ideas; transfer of training; individual differences; intelligence; the interrelation of various forms of behavior. Eight hours a week. One credit.

First six weeks:

- Section I, 7:15 and 1:50, Room 33, Mr. Humphrey.
 Section II, 8:35 and 2:45, Room 33, Mr. Humphrey.

Second six weeks:

7:15 and 1:50, Room 17, Mr. Haefner.

22. The Psychology of Elementary School Subjects.—This course makes an analysis of the materials used in elementary education with a view to understanding the learning problems involved. The special psychology of the following subjects is considered: reading, arithmetic, handwriting, spelling, history, geography, nature study, music, drawing. Some attention is given to the diagnosis of special difficulties in these subjects and the appropriate remedial measures. Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 17, Mr. _____

ENGLISH

20. Composition.—A practical course, stressing the planning, outlining, and developing of short units, analysis of well-written material, the sentence, and fundamentals of good form in speech and writing.

20a. The First Half of English 20.—Four hours a week. One half credit (only when followed by English 20b in the second six weeks making one credit for the two courses combined).

First six weeks:

10:25, Room 32, Mr. Widger.

20b. The Second Half of English 20.—In the first six weeks English 20b is open only to those who complete English 20a in the mid-spring session. In the second six weeks, English 20b is open only to those who complete English 20a in the first six weeks. Prerequisite: English 20a. Four hours a week. One half credit.

First six weeks:

9:30, Room 30, Miss Orcutt.

Second six weeks:

10:25, Room 30, Mr. Widger.

21. Composition.—A continuation of English 20, mostly concerned with clear exposition; larger units; some rhetorical theory.

First six weeks:

- Section I, 7:15 and 1:50, Room 38, Mr. Pulliam.
 Section II, 7:15 and 1:50, Room 10, Mr. Sheppard.
 Section III, 8:35 and 2:45, Room 10, Mr. Sheppard.

Second six weeks:

8:10 and 2:45, Room 17, Mr. Haefner.

21. An Introduction to Educational Psychology.—This course uses the discussion on the learning process of the preceding course as its point of departure and introduces the student to the forms of student behavior by which man adapts himself to the world. The material of the course includes: the physical basis of behavior; the instinctive equipment of man; the emotions; the laws of learning and their economical application; the organization of experiences into percepts and ideas; transfer of training; individual differences; intelligence; the interrelation of various forms of behavior. Eight hours a week. One credit.

First six weeks:

- Section I, 7:15 and 1:50, Room 33, Mr. Humphrey.
 Section II, 8:35 and 2:45, Room 33, Mr. Humphrey.

Second six weeks:

7:15 and 1:50, Room 17, Mr. Haefner.

22. The Psychology of Elementary School Subjects.—This course makes an analysis of the materials used in elementary education with a view to understanding the learning problems involved. The special psychology of the following subjects is considered: reading, arithmetic, handwriting, spelling, history, geography, nature study, music, drawing. Some attention is given to the diagnosis of special difficulties in these subjects and the appropriate remedial measures. Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 17, Mr. _____

ENGLISH

20. Composition.—A practical course, stressing the planning, outlining, and developing of short units, analysis of well-written material, the sentence, and fundamentals of good form in speech and writing.

20a. The First Half of English 20.—Four hours a week. One half credit (only when followed by English 20b in the second six weeks making one credit for the two courses combined).

First six weeks:

10:25, Room 32, Mr. Widger.

20b. The Second Half of English 20.—In the first six weeks English 20b is open only to those who complete English 20a in the mid-spring session. In the second six weeks, English 20b is open only to those who complete English 20a in the first six weeks. Prerequisite: English 20a. Four hours a week. One half credit.

First six weeks:

9:30, Room 30, Miss Orcutt.

Second six weeks:

10:25, Room 30, Mr. Widger.

21. Composition.—A continuation of English 20, mostly concerned with clear exposition; larger units; some rhetorical theory.

26. **English Grammar.**—This course attempts to cover the grammar taught in the seventh and eighth years with special emphasis on the sentence. Required only in the two-year English curriculum; elective in other curriculums. Eight hours a week. One credit.

First six weeks:

Section I, 7:15 and 1:50, Room 24, Miss Neal.

Section II, 8:35 and 2:45, Room 24, Miss Neal.

Second six weeks:

7:15 and 1:50, Room 30, Mr. Widger.

34. **American Literature.**—A survey of American literature from the beginning to the present. Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 23, Mr. Schneider.

36. **Shakespeare and the Elizabethan Drama.**—A study of Shakespeare's most important plays, and of their place in the development of English drama. Some attention is given to the chief dramatists contemporary with Shakespeare. Eight hours a week. One credit.

First six weeks:

10:25 and 11:20, Room 23, Miss McKinney.

39. **Dramatics.**—A study of the presentation of plays, including the reading of contemporary dramas, the production of at least one play, and the dramatization of an episode or a short story. Some instruction in the coaching of plays is given. Accepted for English 37. Eight hours a week. One credit.

First six weeks:

10:25 and 11:20, Room 38, Mr. Giles.

43. **Contemporary Literature.**—Extensive reading in current literature introduces the student to the best that is being written today, and provides him with some standards of judgment with the hope of stimulating his enthusiasm for good books.

43a. **Prose.**—Prerequisite: Junior College required English. Four hours a week. One half credit.

First six weeks:

8:35, Room 39, Miss Daringer.

43b. **Poetry.**—Prerequisite: Junior College required English. Four hours a week. One half credit.

First six weeks:

2:45, Room 39, Miss Daringer.

Second six weeks:

8:10, Room 9, Mr. Daniels.

44a (or b). **Advanced Rhetoric.**—Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 20 and 21. The course is intended to give both an introduction to the methods of research, and opportunity for original work. Prerequisite: Junior College required English. Four hours a week. One half credit for a or b. One credit for a and b for the quarter (12 weeks).

First six weeks:

9:30, Room 23, Miss McKinney.

Second six weeks:

11:20, Room 9, Mr. Daniels.

45. **Oral English.**—Through prepared talks and discussions, this course gives training in the effective expression of genuine ideas and

opinions. Sincerity, adequate development of thought, the proper use of facts and evidence, and also the principles and practice of good delivery are stressed. Prerequisite: Junior College required English. Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 32, Mr. Widger.

GEOGRAPHY

20. **Principles of Human Geography.**—Required in the first year of the Teachers College. Eight hours a week. One credit.

First six weeks:

Section I, 7:15 and 1:50, Room 7T, Miss Stevens.

Section II, 8:35 and 2:45, Room 7T, Miss Stevens.

Second six weeks:

8:10 and 2:45, Room 16, Miss Harris.

21. **Climatology.**—This course covers work helpful to teachers of the seventh and eighth grades in the State Course of Study. It includes mathematical geography and a study of the circulation of the atmosphere leading up to an understanding of climate. It forms a foundation for all regional geography. Eight hours a week. One credit.

First six weeks:

Section I, 7:15 and 1:50, Room 16, Miss Weller.

Section II, 8:35 and 2:45, Room 16, Miss Weller.

Second six weeks:

7:15 and 1:50, Room 16, Miss Harris.

HISTORY AND SOCIAL SCIENCE

I. History

31. **The History of Europe, 1500-1815.**—Eight hours a week. One credit.

First six weeks:

8:35 and 2:45, Room 35, Mr. Thomas.

32. **The History of Europe Since 1815.**—Special emphasis is placed on the political and industrial changes in England, the revolutionary movement of 1848, the unification of Italy and of Germany, the colonial expansion and commercial rivalry of the important states of Europe, and the causes of the great war. Eight hours a week. One credit.

Second six weeks:

8:10 and 2:45, Room 6, Mr. Coleman.

33. **American Political and Institutional History to 1800.**—Eight hours a week. One credit.

First six weeks:

8:35 and 2:45, Room 9, Mr. Coleman.

34. **The Political and Institutional History of the United States,**

1800-1865.—Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 9, Mr. Coleman.

35. **The Political and Institutional History of the United States, 1865 to the Present.**—Eight hours a week. One credit.

Second six weeks:

7:15 and 1:50, Room 6, Mr. Coleman.

II. Sociology

43. **The Principles of Sociology.**—Eight hours a week. One credit.

First six weeks:

7:15 and 1:50, Room 35, Mr. Thomas.

HOME ECONOMICS

The work of the home economics department is divided into two parts: I, Domestic Art, which has to do with clothing; II, Domestic Science, which deals with foods.

I. Domestic Art

37a. **Handsewing.**—Embroidery, household linens, handmade flowers, and fine hemming. The practice work is a choice of an infant's dress, a hand-made apron, or some other article suitable for the application of the principles. Eight hours a week (four hours in class and four hours outside of class). One half credit.

First six weeks:

7:15, Room 22 P., Miss Thompson.

37b. **Foods.**—The course includes a study of batters, doughs, who have had high school sewing or some practical experience in sewing. It includes the choice, use, and altering of commercial patterns, and the fitting of garments. The principal problem is the making of a summer dress in cotton or linen material. Eight hours a week (four hours in class and four hours outside of class). One half credit.

First six weeks:

8:35, Room 22 P., Miss Thompson.

II. Domestic Science

37a. **Foods.**—This course includes lectures on calorie counting; body requirements in food; vitamins and health; with laboratory work in preparation and serving of hot school luncheons. Eight hours a week (four hours in class and four hours outside of class). One half credit.

First six weeks:

11:20, Room 26 P., Miss Thompson.

37b. **Foods.**—The course includes a study of batters, doughs, pastry, leavening agents, and oven temperatures with laboratory work in quick breads, pastry, cakes, icing, and yeast breads. Eight hours a week. One half credit.

First six weeks:

9:30 and 10:25, Room 26 P., Miss Thompson.

LIBRARY USE

The aim of this course is to teach students to use the library with some degree of skill. Certain high school and college courses require considerable work in the library, including reading and looking up of references and assigned topics. To do this work with a wise expenditure of time and effort, students should know how to use the card catalogue, magazine indexes, and some reference books. Lessons, required of all students, are given to freshmen. The course offered this summer is accepted for this work.

20. Use of the Library.—Instruction and problems in the use of the catalogue, dictionaries, encyclopedias, Readers' Guide, and other reference books of geography, history, and biography.

First six weeks:

10:25, Wednesdays and Fridays, Room 11, Miss Booth.

MANUAL ARTS

24a. Primary Grade Handwork.—This course has been worked out to meet the needs of teachers and supervisors of primary grades in city and rural schools. The typical school room and its equipment are considered. Work in paper folding, paper weaving, cardboard construction, and bookbinding. Eight hours a week (four hours in class and four hours outside of class). One half credit.

First six weeks:

Section I, 10:25, Room 16 P, Mrs. Ashley.

Section II, 11:20, Room 16 P, Mrs. Ashley.

Section III, 1:50, Room 16 P, Mrs. Ashley.

Section IV, 2:45, Room 16 P, Mrs. Ashley.

Second six weeks:

9:30, Room 16 P, Mrs. Ashley.

24b. Primary Grade Handwork.—Reed and raffia, basketry, wood work and clay work. Prerequisite: Course 24a. Eight hours a week (four hours in class and four hours outside of class). One half credit.

First six weeks:

Section I, 8:35, Room 11 P, Mr. Ashley.

Section II, 9:30, Room 11 P, Mr. Ashley.

Second six weeks:

10:25, Room 16 P, Mrs. Ashley.

25b. Toy Making.—This is a course of great value to teachers of the intermediate grades. It includes the making of toys, the study of woodworking tools, equipment for one-room schools, and other related topics. Eight hours a week (four hours in class and four hours outside of class). One half credit.

Second six weeks:

11:20, Room 14 P, Mr. Ashley.

30. Mechanical Drawing.—Practical working drawings based upon French and Svenson's "Engineering Drawing." This course is of value to men and women teachers in the junior high school or above and of special value to teachers of mathematics and manual arts. Prerequisite to all courses in manual arts except Course 24 and Course 25, but may be taken with Course 33 or Course 46. Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 16 P, Mr. Langford.

Second six weeks:

7:15 and 8:10, Room 16 P, Mr. Ashley.

31. Mechanical Drawing.—Mechanical perspective, oblique and isometric drawings of buildings and machines. Prerequisite: Course 30, Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 16 P, Mr. Langford.

Second six weeks:

7:15 and 8:10, Room 16 P, Mr. Ashley.

32. Mechanical Drawing.—Machine drawing and design. Prerequisite: Course 31. Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 16 P, Mr. Langford.

Second six weeks:

7:15 and 8:10, Room 16 P, Mr. Ashley.

33. Elementary Woodwork.—Prerequisite: Course 30, unless Course 30 is being taken with Course 33. Eight hours a week. One half credit.

First six weeks:

10:25 and 11:20, Room 14 P, Mr. Langford.

Second six weeks:

7:15 and 8:10, Room 14 P, Mr. Hughes.

34, 35. Joinery and Advanced Woodwork.—A study of various types of joints used in furniture construction. Application in type problems. Study of varieties of wood. Lectures, demonstration, and applications. Prerequisite: Course 33. Eight hours a week. One half credit.

First six weeks:

10:25 and 11:20, Room 14 P, Mr. Langford.

Second six weeks:

7:15 and 8:10, Room 14 P, Mr. Hughes.

36 or 37. Furniture and Cabinet Construction.—The commercial method of production. Use of power machinery. Study of periods and styles of furniture. Applied design. Pieces are designed and one or more made in the shop. Outside reading and reports in class, covering the development and distinguishing characteristics of period furniture. Students pay for material used and are allowed to take the furniture home. These courses are offered each in two parts as follows:

36a or 37a. The First Half of Course 36 or 37.—Eight hours a week. One half credit for 36a or 37a.

First six weeks:

1:50 and 2:45, Room 14 P, Mr. Hughes.

36b or 37b. The Second Half of Course 36 or 37.—Eight hours a week. One half credit for 36b or 37b.

Second six weeks:

9:30 and 10:25, Room 14 P, Mr. Hughes.

39. Household Mechanics.—The purpose of this course is to train teachers for junior high schools in all kinds of household mechanical work. The first half of it, or 39a, consists in the refinishing and repair of worn and broken furniture and simple carpentry and masonry repair. The remainder of the course consists of a study of the in-

stallation and repair of plumbing and electrical apparatus. Required of all students in Manual Arts curriculums. A valuable course for home economics students. This course is offered in two parts as follows:

39a. **The First Half of Course 39.**—Eight hours a week. One half credit.

First six weeks:

1:50 and 2:45, Room 14 P, Mr. Hughes.

39b. **The Second Half of Course 39.**—Eight hours a week. One half credit.

First six weeks:

1:50 and 2:45, Room 14 P, Mr. Hughes.

Second six weeks:

9:30 and 10:25, Room 14 P, Mr. Hughes.

43. **The Elements of Sheet Metal Practice.**—New sheet metal equipment will be used in the development of practical work for public schools. The course is offered in two parts as follows:

43a. **The First Half of Course 43.**—Eight hours a week. One half credit.

First six weeks:

10:25 and 11:20, Room 4 P and 6 P, Mr. Hughes.

43b. **The Second Half of Course 43.**—Eight hours a week. One half credit.

Second six weeks:

9:30 and 10:25, Room 4 P, Mr. Ashley.

44. **Electrical Construction.**—This course is offered in two parts as follows:

44a. **The First Half of Course 44.**—Eight hours a week. One half credit.

First six weeks:

1:50 and 2:45, Room 4 P, Mr. Ashley.

44b. **The Second Half of Course 44.**—Eight hours a week. One half credit.

Second six weeks:

9:30 and 10:25, Room 4 P, Mr. Ashley.

46. **Pattern Making.**—This course is offered in two parts as follows:

46a. **The First Half of Course 46.**—Eight hours a week. One half credit.

First six weeks:

1:50 and 2:45, Room 4 P, Mr. Ashley.

46b. **The Second Half of Course 46.**—Eight hours a week. One half credit.

Second six weeks:

9:30 and 10:25, Room 4 P, Mr. Ashley.

47. **Forge and Foundry.**—This course is offered in two parts as follows:

47a. **The First Half of Course 47.**—Eight hours a week. One half credit.

First six weeks:

10:25 and 11:20, Room 19 P, Mr. Ashley.

47b. **The Second Half of Course 47.**—(Not offered in the summer quarter, 1929.)

48. **Machine Shop.**—This course is offered in two parts as follows:

48a. **The First Half of Course 48.**—Eight hours a week. One half credit.

First six weeks:

10:25 and 11:20, Room 19 P, Mr. Ashley.

48b. **The Second Half of Course 48.**—(Not offered in the summer quarter, 1929.)

49. **Architectural Drawing.**—Required in four-year Art and Manual Arts curriculums. Prerequisite: Course 32. Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 16 P, Mr. Langford.

Second six weeks:

7:15 and 8:10, Room 16 P, Mr. Ashley.

50. **Architectural Drawing, Advanced.**—Required in four-year Art and Manual Arts curriculums. Prerequisite: Course 49. Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 16 P, Mr. Ashley.

Second six weeks:

7:15 and 8:10, Room 16 P, Mr. Ashley.

53. **Automobile Mechanics I. Frame, Springs, Wheels, Transmission.**—This course is offered in two parts as follows:

53a. **The First Half of Course 53.**—Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 19 P, Mr. Hughes.

53b. **The Second Half of Course 53.**—Eight hours a week. One half credit.

Second six weeks:

1:50 and 2:45, Room 19 P, Mr. Hughes.

54a. **Advanced Machine Shop.**—This is the first half of Course 54. Eight hours a week. One half credit.

First six weeks:

10:25 and 11:20, Room 19 P, Mr. Ashley.

57. **Automobile Mechanics II. Engine, Ignition, Carburetor.**—This course is offered in two parts as follows:

57a. **The First Half of Course 57.**—Eight hours a week. One half credit.

First six weeks:

8:35 and 9:30, Room 19 P, Mr. Hughes.

57b. **The Second Half of Course 57.**—Eight hours a week. One half credit.

Second six weeks:

1:50 and 2:45, Room 19 P, Mr. Hughes.

59. **Hand Composition and Beginning Press Work.**—Sixteen hours a week. One credit.

First six weeks:

1:50 and 2:45, with two more hours to be arranged, Room 17 P,
Mr. Langford.

60. **More Advanced Composition and Press Work.**—Sixteen hours a week. One credit.

First six weeks:

1:50 and 2:45, with two more hours to be arranged, Room 17 P,
Mr. Langford.

MATHEMATICS

I. Arithmetic

20. **Arithmetic for the First Six Grades.**—This course includes notation and numeration, the fundamental operations with integers and with common and decimal fractions, factors and multiples, English and metric measures, involution and evolution, and simple problems in the measurement of surfaces and solids. The course covers the topics taken up in the first six grades as outlined in the Illinois State Course of Study. Special attention is given to the teaching of these topics in the lower grades. Eight hours a week. One credit.

First six weeks:

Section I, 7:15 and 1:50, Room 11.

Section II, 8:35 and 2:45, Room 11.

Second six weeks:

8:10 and 2:45, Room 25, Mr. Lantz.

20a. **Arithmetic in the First, Second, and Third Grades.**—In this course is discussed the work of the first three grades as outlined in the Illinois State Course of Study. The course includes a review of parts of the subject matter, and discussion of methods of teaching. Four hours a week. One half credit.

First six weeks:

8:35, Room 25, Miss Daniels.

20b. **Arithmetic in the Fourth, Fifth, and Sixth Grades.**—In this course is discussed the work of the fourth, fifth, and sixth grades as outlined in the Illinois State Course of Study. The course includes a review of the more difficult parts of the subject matter and discussion of methods of teaching. Four hours a week. One half credit.

First six weeks:

10:25, Room 25, Miss Daniels.

21. **Arithmetic for the Seventh and Eighth Grades.**—The primary object of this course is to prepare for the teaching of arithmetic in the seventh and eighth grades. The principal topics discussed are percentage and its applications to practical business problems, ratio and proportion, and the mensuration of surfaces and solids. It is the aim of the classroom instruction to familiarize the students with methods of instruction that can be readily adapted to the seventh and eighth grades. Eight hours a week. One credit.

First six weeks:

Section I, 7:15 and 1:50, Room 25, Miss Daniels.

Section II, 7:15 and 1:50, Room 27.

Section III, 8:35 and 2:45, Room 27.

21a. **Arithmetic in the Seventh Grade.**—The work of the seventh grade, as outlined in the Illinois State Course of Study, is taken up in this course. The course gives a review of subject matter and discussion of methods of teaching. Four hours a week. One half credit.

First six weeks:

8:35, Room 37, Mr. Lantz.

Second six weeks:

7:15, Room 25, Mr. Lantz.

21b. **Arithmetic in the Eighth Grade.**—The work of the eighth grade as outlined in the Illinois State Course of Study is taken up in this course. The course gives a review of subject matter and discussion of methods of teaching. Four hours a week. One half credit.

First six weeks:

9:30, Room 33, Mr. Lantz.

Second six weeks:

1:50, Room 25, Mr. Lantz.

II. College Mathematics

31. **Algebra.**—Review of first year algebra; graphs; functions; determinants of second and third orders applied to simultaneous linear equations; variation, extension of the number system to include complex numbers; theory of quadratic equations; simultaneous quadratics. Eight hours a week. One credit.

First six weeks:

8:35 and 9:30, Room 18, Miss Ford.

32. **Algebra.**—Exponents and radicals; logarithms; mathematical induction; binomial theorem; progressions; permutations and combinations, probability. Prerequisite: Algebra 31, or the equivalent. Eight hours a week. One credit.

First six weeks:

8:35 and 9:30, Room 26, Mr. Taylor.

33. **Plane Trigonometry.**—Definitions and properties of trigonometric functions, the deduction of important trigonometric formulas, the use of tables of logarithms, the solution of plane triangles, and various practical applications. Eight hours a week. One credit.

First six weeks:

10:25 and 11:20, Room 26, Mr. Taylor.

MUSIC

I. Public School Music

24a. **Elementary Sight Singing.**—The course is planned to acquaint students with the subject matter of music in the first four grades of the public schools, to train the ear, and to develop some skill in syllable reading. Four hours a week. One half credit.

First six weeks:

7:15, Third floor east, Miss Major.

37a. **Primary Music Methods.**—The teaching of rote songs. How to help monotones. Development and care of the child voice. Repertoire of children's songs. The work of the first three grades is studied

intensively. Prerequisite: Course 24 or the equivalent. Accepted for Music 24b. Four hours a week. One half credit.

First six weeks:
8:35, Third floor east, Miss Major.

Note:—Students registered for Music 37a or 38a are required to keep the 11:20 period free for observation of music teaching.

38a. Upper Grade Methods.—Methods of teaching and supervising music in grades four to eight inclusive. Accepted for Music 24b. Four hours a week. One half credit.

First six weeks:
9:30, Third floor east, Miss Major.

Note:—See note under 37a.

II. Instrumental Music

Piano Ensemble Class.—First six weeks.

Piano Lessons 30a (or b), 33a (or b), 36a (or b). First Year, Second Year, Third Year.—One-fourth of a credit for Course 30a, 33a, or 36a. Students should arrange the time with Mr. Koch.

First six weeks:
Hours to be arranged, Third floor center, Mr. Koch.

Violin, Clarinet, Cornet.—These classes are open to beginners only and meet twice a week for one period with no credit. The time is arranged by the class and instructor. Lessons are free of charge. Instruments may be rented. Enrollment is limited to fifteen pupils in each class.

Individual lessons on the same basis as piano lessons may be arranged.

First six weeks:
Hours to be arranged, Music Building, Mr. Hassberg.

III. Voice Training

Girls' Glee Club.—First six weeks.

Voice Training 30a (or b), 33a (or b), 36a (or b). First year, Second Year, Third Year.—One-fourth of a credit for Course 30a, 33a, or 36a. Students should arrange the time with Mr. Koch.

First six weeks:
Hours to be arranged, Third floor, Mr. Koch.

PENMANSHIP

20. Penmanship.—The work is offered in four sections. Five hours a week. One fourth credit toward the renewal of a second grade certificate for the work of each section.

First six weeks:

Section I, Primary Demonstration and Blackboard Writing,
11:20, Room 8 T, Mrs. Huss.

Section II, Palmer Certificate Class, 9:30, Room 8 T, Mrs. Huss.

Section III, Penmanship, a course for those who wish to improve their penmanship, 10:25, Room 8 T, Mrs. Huss.

Section IV, Methods, 8:35, Room 8 T, Mrs. Huss.

PHYSICAL EDUCATION

Physical Education (Men)

30. Physical Education.—The course consists of gymnasium work: drills, apparatus work, and games. Part of the work is in the classroom and part in the gymnasium. The work is planned to meet the needs of teachers who expect to coach in athletics and to direct work in physical education. It is recommended that students take Coaching 33 with Physical Education 30. Four hours a week. One fourth credit.

First six weeks:

11:20, Room 33 and Gymnasium, Mr. Lantz.

33. Athletic Coaching.—The course includes football, basketball, and baseball. It consists of class room work, lectures, interpretation of the rules, the technique of the game. Notebooks are kept and an examination is given. This course is helpful for those who have charge of athletics and it is not necessary to have athletic experience to take the course, as there is very little practical or outdoor work. A baseball team will be organized. Four hours a week. One fourth credit, or as required physical education for one term.

First six weeks:

10:25, Room 33, Mr. Lantz.

READING

24a. Reading.—Designed to improve the student's oral reading. Includes drill exercises and practice in reading before the class. Outside preparation and practice are required. Four hours a week. One half credit.

First six weeks:

Section I, 9:30, Room 33, Mr. Giles.

Section II, 1:50, Room 30, Mr. Giles.

Second six weeks:

9:30, Room 18, Mr. Giles.

24b. Methods.—Planned to give a knowledge of methods and devices used in teaching reading in the elementary schools. Outside preparation, including lesson plans on concrete lesson material, library reading, and other work, is required. Four hours a week. One half credit.

First six weeks:

Section I, 8:35, Room 30, Miss Orcutt.

Section II, 11:20, Room 30, Miss Orcutt.

Second six weeks:

11:20, Room 18, Mr. Giles.

SCIENCE (BIOLOGICAL)

I. Botany

20. College Botany.—A course designed to give the student a knowledge of the fundamental physiological processes concerned in the growth of plants, and of the external and internal structures which are concerned in these processes in leaves, stems, and roots. It includes also the effects of environment factors on these processes and structures. Twelve hours a week. One credit.

First six weeks:

11:20, 2:45, and 3:40, except Thursdays, third floor southwest, Mr. Stover.

21. **College Botany.**—A study of the reproduction of flowering plants, the development of fruit and seeds from the parts of the flower, the mechanism of heredity, and a brief study of the great groups of plants. Twelve hours a week. One credit.

Second six weeks:

11:20, 2:45, and 3:40, except Thursdays, third floor southwest.

22. **General Local Flora.**—The identification of trees in winter and summer condition, of the common fresh water algae, liverworts, mosses and ferns, and of flowering plants as the season advances; and with this a study of structures which is necessary for the recognition of these forms. The course is designed especially for those who expect to teach biological science in secondary schools.

Prerequisite: Botany 20 and 21, or permission of the instructor. Elective. Twelve hours a week. One credit.

Each six weeks:

7:15, 9:30, and 10:25, except Thursday, third floor southwest, first six weeks, Mr. Stover; second six weeks,.....

43 (or 44, or 45). **Advanced Botany.**—This course is arranged to meet the needs of individual students who have had five terms (five credits), or the equivalent, of botany, and who wish to go on in some special field. The student may choose the field in which he wishes to work, but is required to consult the instructor before registering for this course. Prerequisite: Botany 20, 21, 22, 30, and 32, or their equivalent. Twelve hours a week. One credit.

Each six weeks:

9:30, 10:25, and 11:20, except Thursdays, third floor southwest, first six weeks, Mr. Stover; second six weeks,.....

II. Zoology

20. **Animal Biology.**—A consideration of fundamental biological laws, based upon animal material. Twelve hours a week. One credit.

Each six weeks:

7:15, 10:25, and 11:20, except Saturdays, third floor northwest, Mr. Spooner.

21. **Animal Biology.**—A continuation of the work of Zoology 20. Prerequisite: Zoology 20 or one year of high school zoology. Twelve hours a week. One credit.

Second six weeks:

8:10, 2:45, and 3:40, except Saturdays, third floor northwest, Mr. Spooner.

22. **Animal Biology.**—A continuation of the work of Zoology 21. Prerequisite: Zoology 20, or one year of high school zoology. Twelve hours a week. One credit.

First six weeks:

8:35, 2:45, and 3:40, except Saturdays, third floor northwest, Mr. Spooner.

43 (or 44, or 45). **Advanced Zoology.**—This course is arranged to meet the desires and attainments of the individual student. Considerable latitude is given in the choice of a problem, the aim being to encourage and develop ability to pursue original investigations. Frequent conferences with the instructor are held to discuss methods of approach and results. Prerequisite: Two years of work in zoology or biology. Twelve hours a week. One credit.

Each six weeks:

9:30, 10:25, and 11:20, except Saturdays, third floor northwest, Mr. Spooner.

III. Physiology

20. **Human Physiology.**—An understanding of the life-processes of the human body, their nature, their initiation, their co-ordination, their functions, and the conditions under which they are performed, is the main purpose of this course. Anatomy is studied only so far as necessary for the understanding of the bodily activities. Eight hours a week. One credit.

First six weeks:

9:30 and 10:25, third floor west, Dr. Seymour.

Hygiene.—Here an application of the facts learned in the study of human physiology is made so as to show students how the human body may be maintained at its maximum efficiency as a working machine. Both personal and public hygiene, including sanitation, are considered. Prerequisite: One-half year of high school physiology.

20a. **Personal Hygiene.**—Four hours a week. One half credit.

First six weeks:

7:15, third floor west, Dr. Seymour.

Second six weeks:

Section I, 8:10, Room 37, Mr. Crowe.

Section II, 10:25, Room 37, Mr. Crowe.

20b. **Public Hygiene.**—Four hours a week. One half credit.

First six weeks:

8:35, third floor west, Dr. Seymour.

Second six weeks:

Section I, 7:15, Room 37, Mr. Crowe.

Section II, 9:30, Room 37, Mr. Crowe.

THE REGULAR SCHOOL YEAR

The fall quarter of the school year 1929-1930 will begin Saturday, September 7, 1929, at eight o'clock in the morning. A bulletin with full information will be sent to those who are interested.

SUMMER QUARTER PROGRAMME—SECOND SIX WEEKS, 1929

7:15-8:05	8:10-9:00	9:30-10:20	10:25-11:15	11:20-12:10	1:50-2:40	2:45-3:35	3:40-4:30
I Hygiene 20b Mr. Crowe R. 37 History 35* Mr. Coleman R. 6 English 22b Mr. Giles R. 18 English 24* Mr. Widger R. 30 English 25a Mr. Daniels R. 9 Arithmetic 21a Mr. Lantz R. 25 Manual Arts 30*, or 31*, 32*, 49* or 50* Mr. Ashley R. 16 P Manual Arts 33*, or 34*, or 35* Mr. Hughes R. 14 P	I Hygiene 20a R. 37 History 32* R. 6 English 43b Arithmetic 20* Mr. Lantz R. 25 R. 14 P Art 37* Miss Messer Psychology 20* R. 17 Education 21* Mr. Beu R. 10 Zoology 21*— 2, 3, 4, 5 Geography 20* R. 16	II Hygiene 20b R. 37 Reading 24a Mr. Giles R. 18 English 21b R. 30 English 25b R. 9 Manual Arts 24a Mrs. Ashley R. 16 P Manual Arts 43b, 44b, or 46b R. 4 P Manual Arts 36b, or 37b, or 39b R. 14 P Art 37* Drawing 24b Botany 22*—2, 3, 5, 6 Zoology 20*—2, 3, 4, 5 Botany 43* (or 44*, or 45*)—2, 3, 5, 6 Zoology 43* (or 44*, or 45*)—2, 3, 4, 5	II Hygiene 20a R. 37 English 22a R. 18 English 20b R. 30 Manual Arts 24b R. 16 P Maunal Arts 25b or a R. 14 P Drawing 24a Third floor east Botany 21*— 2, 3, 5, 6 Zoology 20*—2, 3, 4, 5	Reading 24b R. 18 English 44a or b R. 9 Maunal Arts 25b or a R. 14 P Manual Arts 53b, or 57b R. 19 P Drawing 24a Third floor east Botany 21*— 2, 3, 5, 6 Zoology 20*—2, 3, 4, 5	History 35* R. 6 English 26* Arithmetic 21b Mr. Lantz R. 25 Manual Arts 53b, or 57b R. 19 P Psychology 21* R. 17 Education 20* R. 10 Geography 21* R. 16	History 32* R. 6 Arithmetic 20* Mr. Lantz R. 25 Manual Arts 53b, or 57b R. 19 P Psychology 20* R. 17 Education 21* R. 10 Geography 20* R. 16	

English 20b (composition) is open only to those who completed English 20a in the first six weeks, 1929.
 English 21b (composition) is open only to those who completed English 21a in the first six weeks, 1929.
 For explanatory notes see programme for first six weeks.

