

1-1-1932

Bulletin 115 - Summer Session 1932

Eastern Illinois University

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The Teachers College Bulletin

Number 115

January 1, 1932

Eastern Illinois State Teachers College
at
CHARLESTON

A Teachers College in the American Association
of Teachers Colleges

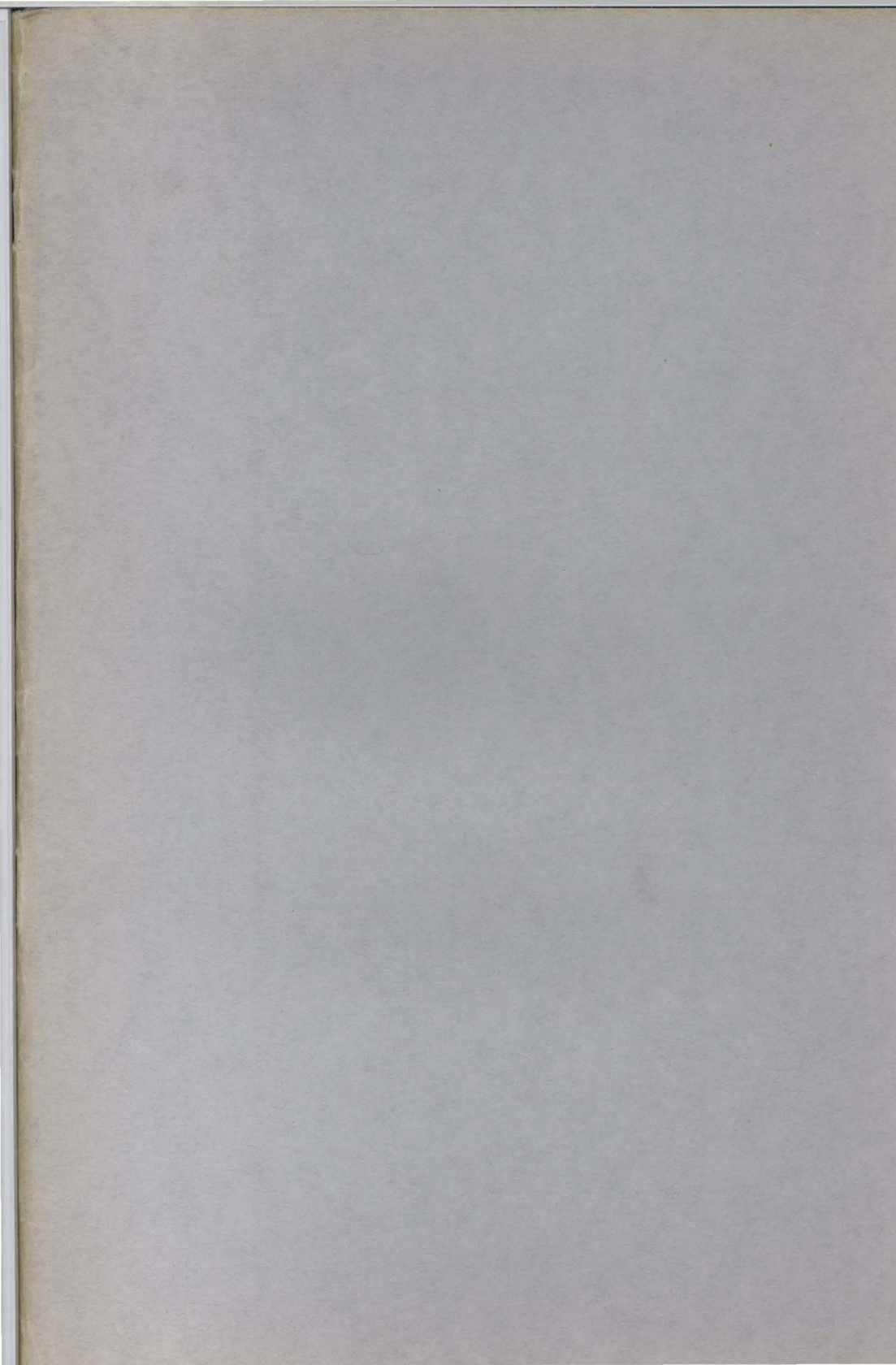
A College in the North Central Association of
Colleges and Secondary Schools

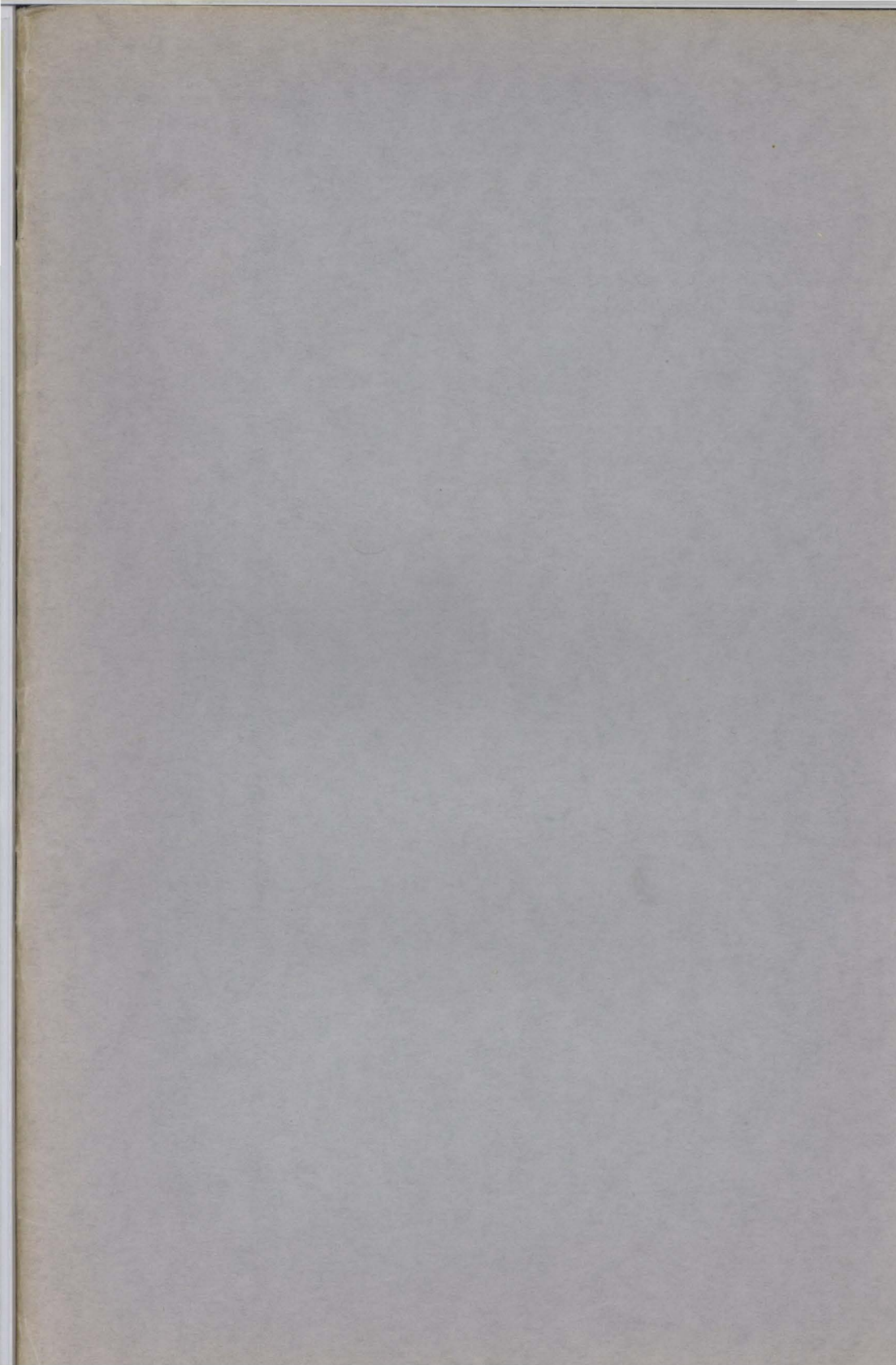
ANNOUNCEMENT OF THE
SUMMER QUARTER
TWELVE WEEKS
1932

Summer Quarter:

First Six Weeks, June 11—July 22

Second Six Weeks, July 25—September 2





The Teachers College Bulletin

PUBLISHED QUARTERLY BY THE EASTERN ILLINOIS
STATE TEACHERS COLLEGE

Entered March 5, 1902, as second class matter, at the postoffice at
Charleston, Ill. Act of Congress, July 16, 1894.

NO. 115

CHARLESTON, ILLINOIS

January 1, 1932

ANNOUNCEMENT OF THE SUMMER QUARTER TWELVE WEEKS 1932

A Teachers College in the American Association of
Teachers Colleges

A College in the North Central Association of
Colleges and Secondary Schools

SUMMER QUARTER

FIRST SIX WEEKS, JUNE 11—JULY 22

SECOND SIX WEEKS, JULY 25—SEPTEMBER 2

Eastern Illinois State Teachers College at Charleston

(Printed by authority of the State of Illinois)

THE COLLEGE CALENDAR

1932

SUMMER QUARTER, 1932 (TWELVE WEEKS)

First Six Weeks

Saturday, June 11, and
Monday, June 13, 1932.....Registration
8:00-12:00 A. M.—1:30-5:00 P. M.
Friday, July 22, 12:10 Noon..First Half of the Summer Quarter Closes

Second Six Weeks

Monday, July 25, 8:00 A. M.....Registration
Friday, September 2, 12:10 Noon..2nd Half of the Summer Quarter Closes

FALL QUARTER, 1932-1933

Saturday, September 10 and
Monday, September 12, 1932.....Registration

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STATE OF ILLINOIS
DEPARTMENT OF REGISTRATION
AND EDUCATION

THE NORMAL SCHOOL BOARD

EX-OFFICIO MEMBERS

MICHAEL F. WALSH, Director of Registration and Education,
Springfield, *Chairman*

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

APPOINTED MEMBERS

1927-1933

EDGAR B. STILL, DeKalb
MRS. M. K. NORTHAM, Evanston
CHARLES E. McMORRIS, Marshall

1929-1935

MRS. G. W. T. REYNOLDS, East St. Louis
ALBERT E. BAILEY, Macomb
DR. PRESTON BRADLEY, 941 Lawrence Avenue, Chicago

1931-1937

J. D. DILL, Carbondale
WILLIAM R. BACH, Bloomington
MISS HARRIETT A. McINTYRE, Mendota

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, 1932

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.....	Dean
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	
Charles P. Lantz.....	Physical Education
B. S., Gettysburg College	
Howard DeF. Widger.....	English
A. B., Yale University; A. M., University of Illinois	
Fiske Allen.....	Director of Training School
A. B., Indiana University; A. M., Columbia University	
Lawrence F. Ashley.....	Manual Arts
B. S., The 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	
Orra E. Neal.....	English
Battle Creek College	
Wayne P. Hughes.....	Manual Arts
The Stout Institute	
Ernest L. Stover.....	Botany
B. S., M. S., Ohio State University; Ph. D., The University of Chicago	
Ora L. Railsback.....	Physics
A. B., A. M., Indiana University	
Charles H. Coleman.....	History
A. B., George Washington University; A. M., Columbia University	
Ruth Hostetler	Mathematics
B. S., The University of Chicago	
Frank A. Beu.....	Education
A. B., A. M., Northwestern University	
Eva P. Mintle.....	Home Economics
B. S., Iowa State College	
Emily R. Orcutt.....	English
Ph. B., A. M., The University of Chicago	
Laura J. Parker.....	English
Ph. B., A. M., University of Vermont	
Glenn H. Seymour.....	Social Science
A. B., A. M., Ph. D., University of Illinois	
Walter M. Scruggs.....	Biological Science
B. Ed., Eastern Illinois State Teachers College	
Franklyn L. Andrews.....	English
Ph. B., The University of Chicago; A. M., University of Illinois	
Irene K. Braun.....	Home Economics
B. S., The Stout Institute	
Beth M. Kassabaum.....	Penmanship
Eau Claire State Teachers College	

Russell H. Landis.....Manual Arts
 B. S., The Stout Institute
 Jay B. MacGregor.....Education
 A. B., Grinnell College; M. A., Ph. D., State University of Iowa
 Clement H. Sievers.....Education
 B. S., M. S., University of Idaho; Ph. D., University of Iowa
 J. H. Gore.....Education
 A. M., The University of Chicago
 E. O. May.....Education
 B. S., Valparaiso University; M. A., The University of Chicago
 Kevin J. Guinagh.....History and English
 B. A., M. A., St. Vincent College; Ph. D., University of Pittsburgh
 Ruth H. Mooers.....Art
 B. S., University of Minnesota
 Harris E. Phipps.....Chemistry
 A. B., A. M., Oberlin College; Ph. D., University of Illinois
 Ica Marks.....Biological Science
 B. Ed., Eastern Illinois State Teachers College; M. S., Ohio State University
 Richard W. Weckel.....Band and Orchestra
 B. M. Ed., Illinois Wesleyan School of Music
 Cletis J. Little.....Physics
 B. Ed., Eastern Illinois State Teachers College
 Kathryn More.....Public School Music
 B. S., Northwestern University
 Helen Fern Daringer.....English
 A. M., Ph. D., Columbia University
 June J. Ashley.....Manual Arts
 Indiana State Normal School
 R. J. Seymour.....Physiology and Hygiene
 M. D., Ohio State University
 Charles McIntosh.....Rural Education
 Superintendent of Platt County Schools
 Bernice Dunn.....Recreation Director
 A. B., University of Nebraska
 Margaret Means.....Geography
 B. Ed., Illinois State Normal University; A. M., Clark University
 Gilberta Coffman.....Training Teacher, Sixth Grade
 Indiana State Normal School
 Mary C. Griswold.....Training Teacher, Fifth Grade
 Eastern Illinois State Teachers College
 Myrtle Arnold.....Training Teacher, Fourth Grade
 B. S., University of Minnesota
 Irene Royce Phipps.....Training Teacher, Third Grade
 B. Ed., Eastern Illinois State Teachers College
 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
 Mary J. Booth.....Librarian
 A. B., Beloit College; B. L. S., University of Illinois
 Esther Irene Duggleby.....Assistant Librarian
 A. B., University of Denver; B. S., University of Illinois
 Hazel I. Hicks.....Assistant Librarian
 Eastern Illinois State Teachers College
 Louise K. Stillions.....Student Assistant Librarian
 Cecile L. Burkeybile.....Student Assistant Librarian
 Bertha M. Griffin.....Student Assistant Librarian
 Florence E. Wood.....Student Assistant Librarian
 Ruth B. Dunn.....Secretary and Business Manager
 B. A., Wellesley College; A. M., The University of Chicago
 Blanche C. Thomas.....Registrar
 Lucile R. Slocum, B. S., University of Illinois.....Stenographer
 Edith C. Willson.....Stenographer
 Anita D. Rohr.....Stenographer
 Carol L. Besteland.....Head of Pemberton Hall
 Mary E. Thompson.....Health Director
 St. John's Hospital, Fargo, N. D.
 Walter H. Nehrting.....Superintendent of Grounds
 Missouri Botanical Gardens

THE FACULTY

SECOND HALF OF SUMMER QUARTER, 1932

Albert B. Crowe.....	Chemistry
A. B., A. M., Hanover College	
S. E. Thomas.....	History and Government
Ph. B., Upper Iowa University; A. M., University of Iowa	
Edith E. Ragan.....	English
Indiana State Normal School	
Howard DeF. Widger.....	English
A. B., Yale University; A. M., University of Illinois	
Lawrence F. Ashley.....	Manual Arts
B. S., The Stout Institute	
Charles S. Spooner.....	Zoology
A. B., Cornell University; A. M., University of Illinois	
Wayne P. Hughes.....	Manual Arts
The Stout Institute	
Dorothy H. Moore.....	Fine and Applied Arts
The Chicago School of Applied and Normal Art	
Ora L. Railsback.....	Algebra and Physics
A. B., A. M., Indiana University	
Charles H. Coleman.....	Social Science
A. B., George Washington University; A. M., Columbia University	
Frank A. Beu.....	Education
A. B., A. M., Northwestern University	
Harold M. Cavins.....	Hygiene
B. S., University of Illinois; M. S., Pennsylvania State College	
Gertrude Hendrix.....	Mathematics
A. B., DePauw University; M. S., University of Illinois	
Rose Zeller.....	Geography
B. Ed., Illinois State Normal University; A. M., Clark University	
Jay B. MacGregor.....	Education
A. B., Grinnell College; M. A., Ph. D., State University of Iowa	
Clement H. Slevers.....	Education
B. S., M. S., University of Idaho; Ph. D., University of Iowa	
Kevin J. Guinagh.....	History and English
B. A., M. A., St. Vincent College; Ph. D., University of Pittsburgh	
Ica Marks.....	Botany
B. Ed., Eastern Illinois State Teachers College; M. S., Ohio State University	
June J. Ashley.....	Manual Arts
Indiana State Normal School	
Cletis J. Little.....	Laboratory Assistant in Physics
B. Ed., Eastern Illinois State Teachers College	
Dorothy McNary.....	Biological Science
B. Ed., Eastern Illinois State Teachers College	
Hazel I. Hicks.....	Librarian
Eastern Illinois State Teachers College	
Louise K. Stillions.....	Student Assistant Librarian
Note.—Chapel exercises are held only once a week in the second summer term.	

THE SUMMER QUARTER

GENERAL INFORMATION

Purpose and Plan.—The summer quarter of the Eastern Illinois State Teachers College at Charleston begins on Saturday, June 11. The first half closes on Friday, July 22. The second half begins on Monday, July 25, and closes on Friday, September 2. Provision has been made to meet the needs of three classes of students:

1. Graduates of recognized four-year high schools who wish to begin preparation for teaching.
2. Sophomores who wish to earn requirements for the limited elementary certificate; or to work toward the degree and the high school, the special, the supervisory, or the life elementary certificate.
3. Juniors or seniors who wish to continue work toward the degree and the high school, the special, the supervisory, or the life elementary certificate. Graduates of the Junior College are included in this group.

Note.—Under "Summer School Programme," schedules for each of these groups are discussed. The student should make his schedule not for one summer alone, but for the summers and the year or years needed to reach his objective.

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 11, and continues through Monday, June 13. Class work begins Tuesday morning, June 14, at a quarter past seven o'clock. Enrollment for the second half begins at eight o'clock, Monday morning, July 25. Class work begins Tuesday, July 26.

High school or other college records must be sent to the Registrar before the opening of the summer quarter.

Credit.—The unit of measure, beginning with the year 1929-30, is the quarter hour, representing one hour a week of prepared work for twelve weeks when the student load of prepared work is sixteen hours a week. It is equivalent to two-thirds of a semester hour.

A statement of the amount of credit is included in the description of each course.

A year's work is equivalent to forty-eight quarter hours (thirty-two semester hours) of prepared work. A year's work in one subject is equivalent to twelve quarter hours (eight semester hours).

Regular work for each six weeks gives eight quarter hours credit. Students with B average may register for a maximum of ten quarter hours of credit toward graduation.

Credit earned in piano, voice, physical education, library use, dramatics, College News, glee club, quartette, orchestra, or band is in excess of the 96 quarter hours required for a diploma and of the 192 quarter hours required for a degree. The credit is recorded on the student's permanent record card and may play an important part when he is an applicant for a position.

A Teachers College "credit" is equivalent to four quarter hours.

Numbering of Courses.—Courses numbered 20-29 are (with a few exceptions) required in a curriculum in the Junior College; courses numbered 30-39 are elective courses for those in the Junior College; courses numbered 40 or above are Senior College courses.

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 art, 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 and athletic fee of one dollar and fifty cents. 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; for change of programme after the third day; and for record not clear at the textbook library at the close of the term.

The cost of board and room in Pemberton Hall is \$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 assist 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 and athletic fee.....	1.50
Board for six weeks.....	33.00
Room rent, six weeks, two in a room, each.....	12.00
Laundry	4.50
Total	\$54.50

Registration.—Directions for registering on Saturday, June 11, and on Monday, June 13, 1932, 8:00 to 12:00 a. m. and 1:30 to 5:00 p. m.:

1. Fill out a blue card with your name, your Charleston address, and the name of the householder. Leave this card at the information desk in the Entrance Hall.

2. Pay registration fee (\$2.00), book rent (\$1.50), and recreation and athletic fee (\$1.50), or leave scholarship at the cashier's office and pay the recreation and athletic fee (\$1.50). Scholarship students pay the recreation and athletic fee of \$1.50. Students who enter after Monday, June 13, for the first six weeks or after Monday, July 25, 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 14, for the first six weeks; on Tuesday, July 26, for the second six weeks.

6. Between noon on Tuesday, June 14, and Friday afternoon, June 17, at 4:00 o'clock, go to the textbook library with your recreation ticket and get your registration blank. There should be no delay in doing this after you are sure your programme is satisfactory to you.

7. Take the blank and your marked programme to the Entrance Hall and fill out the blank in ink, beginning with the back of the blank. Make out a class card for each course.

8. Take the completed blank and cards to a student clerk and wait till they are checked. All blanks and cards must be returned to the registrar not later than the close of school on Friday, June 17.

Practical Arts Building.—The Practical Arts Building for manual arts, industrial arts, and home economics has been in use since January, 1929. Space and equipment are provided adequate for training teachers in these fields. A four-year curriculum is offered in manual arts and industrial arts. A four-year Smith-Hughes curriculum is offered in home economics.

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 for 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.—In the school garden small plots of ground are planted and cared for by pupils under the direction of the gardener and the teacher. Connected with the pupils' 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 38,000 books and pamphlets, is open to all summer school students. During the summer quarter of 1931 books on the following subjects were exhibited:

1. Recent books for children, grades 1-3.
2. Recent books for children, grades 4-6.
3. Arithmetic.
4. Readers and primers.
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 1932-1933 will begin Saturday, September 10, at eight o'clock in the morning. A bulletin with full information will be sent to those who are interested.

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 high school graduation record should include three units in English, one in algebra, one in geometry, and ten electives not more than four of which may be special subjects such as agriculture, drawing, music, manual arts, home economics, bookkeeping, business law, commercial arithmetic, stenography, typewriting, and general science. The work of the Junior College in the two-year curriculum leads to a diploma which gives a limited elementary certificate, valid in the first ten grades of the common schools of the county; 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, supervisors, department teachers, grade teachers, and teachers of special subjects. Ninety-six quarter hours are required for graduation from the Junior College and one hundred ninety-two hours for graduation from the Senior College. In addition to the required number of hours, physical education, penmanship, and work in the use of the library are required.

Curricula.—I. Two-year curriculum (96 quarter hours) for preparation of teachers for the grades.

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. If any mistake has been made, go to the office with your marked 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 you have completed your registration.

Announcements.—Morning exercises are held in the assembly hall daily at 9:00 o'clock in the first six weeks; on Tuesdays only in the second six weeks.

The assembly hall is a study room during all class periods.

Students entering after Monday, June 13, go to the office for a marked programme and permission to register.

Charleston Post Office.—Mail is not delivered to students at the school. Students should have their correspondents give street and number in addressing all mail. If a student changes his Charleston address, he should go to the postoffice and file a change of address card. He should give both the old and the new address. A change of address should be reported to the registrar.

Training School.—Opportunity is offered for observation and practice teaching in the first six grades. 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 here has been completed with high standing and to those beginning practice teaching in the last seven weeks of the spring quarter. No student who has failed in practice teaching is permitted to take teaching in the last half of the spring quarter or in the first half of the summer quarter.

Students wishing to take teaching in 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 9:00 to 12:00.

Pemberton Hall.—Room and board may be secured in Pemberton Hall by one hundred students at \$45.00, and board by about fifty more at \$33.00 for the first six weeks, payable on June 14. Applications for rooms are filed in the order in which they are received.

A deposit of \$5.00 is required for a reservation at Pemberton Hall. Reservation will be filed at the Hall when the deposit is received at the business office.

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

II. Four-year curricula (192 quarter hours each) for preparation of primary teachers, grammar grade department teachers, supervisors, high school teachers, and teachers of special subjects. The possibilities in choice of major subjects are: art, English, Latin, geography, history, home economics (Smith-Hughes), manual arts, mathematics, music (public school), botany, zoology, physics, chemistry.

The Two-Year Diploma Curriculum.—The two-year diploma curriculum for preparation of teachers for the grades is here given by years:

Freshman Year	Sophomore Year
Education 20, 21, 22	Education 23, 24
English 20, 21, 27 (or 24 or 22)	Teaching 20, 21, 22
Arithmetic 20, 21	History (eight quarter hours)
Botany 20, or 21, or Zoology 20	Music 24
Geography 20	Manual Arts 24 or 25 (or Art 36 or 37)
Reading 24	Geography 21 and English 26 (or English 34 and Education 25)
Drawing 24	Hygiene 20
Penmanship 20	Physical Education
Library 20	
Physical Education	

Notes. 1. The completion of this curriculum entitles the student to the diploma of the Junior College and to a limited elementary certificate.

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

Parent-Teacher Work.—A non-credit course for teachers and for parent members will be given for one week during the first summer term. This course, sponsored by the Illinois Congress of Parents and Teachers, presents the work from the standpoint of the teacher. Practical problems of organization and programme planning will be considered and much time will be given to conferences with teachers.

The lectures will probably be given at 3:15 on Tuesday, Wednesday and Friday and at 9:30 on Thursday and Saturday of the week used for this course. Room 16 will be used for the lectures and the reception room for conferences.

THE CERTIFICATING LAW

For the limited elementary certificate the requirement is a Junior College diploma or the equivalent as defined by the Illinois Examining Board.

For the limited supervisory certificate a bachelor's degree and four years of successful teaching experience are required.

For the limited high school certificate a bachelor's degree is required. The subject requirement for teaching is recognized or accredited high schools is two years of college work in the subject taught (24 quarter hours or 16 semester hours).

For the life certificate—supervisory, high school, or special—a bachelor's degree with four years of successful teaching is required. For the life certificate, kindergarten-primary or elementary, the requirement is 90 semester hours with four years of successful teaching.

The certificating law is presented in tabular form on the following page.

THE CERTIFICATING LAW

ESSENTIAL FEATURES PERTAINING TO LIMITED CERTIFICATES PROVIDED FOR IN THE CERTIFICATING LAW
ENACTED BY THE FIFTY-SIXTH GENERAL ASSEMBLY, 1929

Analysis of Main Features of Certificates	NAME OF LIMITED CERTIFICATE				
	Super- visory	High School	Special	Kinder- garten Primary	Elemen- tary
(1)	(2)	(3)	(4)	(5)	(6)
I. Scope of Validity:					
(a) Duration of time.....	4 yr.	4 yr.	4 yr.	4 yr.	4 yr.
(b) General duties permitted.....	Teaching; super- vision	Teaching; super- vision	Teaching; super- vision	Teaching; supervision kinder- garten 1-2	Teaching; super- vision
(c) Grades of school system.....	1-12	7-12	1-12	1-2	1-10
II. Requirements for Issue on Credits					
(a) College semester hours.....	120	120	60 ¹	60 ²	60
(b) Semester hours in education.....	15	15	12	Indefinite	10 ³
(c) Teaching experience	4 yr.	0	0	0	0
(d) *Renewal conditions	Success; growth	Success; growth	Success; growth	Success; growth	Success; growth
III. Requirements for Issue by Examination					
(a) College semester hours.....	60	60	30	30 ²	30 ³
(b) Teaching experience	4 yr.	0	0	0	0
(c) Number of subjects written.....	5	10	3 or more	3	18
(d) College semester hours for renewal—					
1. First renewal	90	90	60 ¹	60 ²	60
2. Second renewal	120	120	60 ¹	60 ²	60
3. Third renewal, etc.....	120	120	60 ¹	60 ²	60
IV. *Conditions of Exchange for Life Certificate					
(a) Years of successful experience.....	Super- vision, 4 yr.	4 yr.	4 yr.	4 yr.	4 yr.
(b) College semester hours required.....	120	120	120	90	90
(c) College semester hours in education..	15	Indefinite	Indefinite	Indefinite	Indefinite
(d) Name of certificate received.....	Life super- visory	Life high school	Life special	Life Kinder- garten Primary	Life elemen- tary

¹ 20 hours in each subject named in certificate.

² Kindergarten-primary training.

³ 5 hours in practice teaching.

⁴ Evidence of successful teaching and professional growth are prerequisite to the renewal of all certificates.

⁵ 5 hours in education.

⁶ Life certificate may be obtained by successful examination and preparation of thesis if applicant fails in slight measure to meet hours of training required for exchange of limited certificate.

SUMMER QUARTER PROGRAMME

Summer Quarter, Senior College.—Attention is called to Senior College courses offered in a sequence of two or three summers in English, history, physiology, botany, zoology, mathematics, physics, art, and home economics.

Sophomore Programmes.—1. Sophomores in the two-year grade curriculum who have begun to teach or who plan to do so in September may complete their work for the Junior College diploma for grade teaching in three successive summer quarters by following these programmes, provided they have B average in the freshman year's work:

I	Summer, 1932	II	I	Summer, 1933	II
Teaching 20a	Hygiene 20		Teaching 21a	Geography 21	
Teaching 20b	Education 23		Teaching 21b		
I Education 24			Music 24a	English 26	
			Music 37a		
I	Summer, 1934	II			
Teaching 22a			Manual Arts 24 (or 25, or Art 36,		
Teaching 22b			or 37)		
History 34 (or 33)			History 35 (or 34)		

2. Sophomores in four-year curricula who are using summer quarters in order to complete one year's work before returning to college as juniors should have their programmes planned at the office.

Junior Programmes.—1. Juniors in four-year curricula and graduates of the two-year diploma curriculum who wish to earn one year's credit toward the degree before returning as seniors for their last year's work should have their programmes planned ahead for them at the office.

Since two-year diploma graduates must satisfy requirements as to major and minor subjects, laboratory science, and required junior and senior work, they must in most curricula earn more than two years' credit beyond that covered by the Junior College diploma.

Programme Notes.—A student may complete eight quarter hours in each six weeks. It is not advisable to register for more than eight quarter hours in six weeks.

Students with B average in their last quarter's work may register for ten quarter hours, the maximum permitted for credit toward graduation total.

Courses marked with an asterisk are double courses, completing in six weeks the work of twelve weeks. Double courses, unless otherwise indicated on the programme, 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 9:00 to 12:00.

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

Courses numbered 20-29 are required in one or more of the curricula. Courses numbered 30 or above are elective. 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 AND DESIGN

At least two hours of work a day, outside of class, are required in each double-period course in art.

24. Elementary Drawing.—The course includes lettering, composition, free hand perspective, color harmony, and their application in poster work. Sixteen hours a week. Four quarter hours.

First six weeks:

10:25 and 11:20, Room 2P, Miss Mooers.

Note.—Students who need only Drawing 24b are permitted to take it at 11:20 with Art 24.

30. Representation.—The study of the essentials of perspective and their application to still life groups in charcoal, crayon, water color, and ink. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, Room 2P, Miss Mooers.

31. Poster Work.—The study of lettering for commercial and educational uses and for application to book making, bulletins, and posters. The principles of design and color. "Art in Every Day Life," by Goldstein is the text used. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, Room 2P, Miss Mooers.

Second six weeks:

10:25 and 11:20, Third floor east, Mrs. Moore.

32. Design I.—Decorative applications of the principles of design. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 to 8:10, Room 2P, Miss Mooers.

Second six weeks:

10:25 and 11:20, Third floor east, Mrs. Moore.

33. Design II.—Plants, animals, and birds in decoration and the application of these forms to the making of patterns. Color theory, leather tooling, wood block printing, and batik work. Sixteen hours a week. Four quarter hours.

First six weeks:

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

Second six weeks:

10:25 and 11:20, Third floor east, Mrs. Moore.

34. Jewelry.—Design as applied to metal work and to jewelry. Sixteen hours a week. Four quarter hours.

First six weeks:

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

Second six weeks:

10:25 and 11:20, Third floor east, Mrs. Moore.

43. **Still Life I.**—Studies in charcoal, water color, and oil. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, Third floor east, Miss Messer.

Second six weeks:

8:10 and 9:30, Third floor east, Mrs. Moore.

44. **Interior Decoration.**—A thorough and practical course in the fundamentals of interior decoration. Emphasis is placed on good color harmony, and the application of the principles of design. The course includes the study of periods and styles of furniture and of materials used in interiors. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, Third floor east, Miss Messer.

Second six weeks:

8:10 and 9:30, Third floor east, Mrs. Moore.

45. **Design III.**—The application of the principles of design and color to house plans, wall elevations, and rooms in perspective. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, Third floor east, Miss Messer.

Second six weeks:

8:10 and 9:30, Third floor east, Mrs. Moore.

49. **Commercial Design.**—Decorative composition and lettering. Application to high school annual and other publications. Sixteen hours a week. Four quarter hours.

First six weeks:

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

Second six weeks:

10:25 and 11:20, Third floor east, Mrs. Moore.

50. **Still Life II.**—More advanced work in still life, using oil paints. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, Third floor east, Miss Messer.

Second six weeks:

8:10 and 9:30, Third floor east, Mrs. Moore.

EDUCATION

I. Rural Education

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

Education 20a (Rural). First Part, Lower Grades.—Four hours a week. Two quarter hours, accepted for Education 20a.

First six weeks:

9:30, Room 11, Mr. McIntosh.

Education 20b (Rural). Second Part, Upper Grades.—Four hours a week. Two quarter hours, accepted for Education 20b.

First six weeks:

10:25, Room 11, Mr. McIntosh.

13. **Rural School Management.**—The course deals with the organization, supervision, and maintenance of country schools and with the organizations cooperating with these schools. It is given in two parts:

Education 24a (Rural). First Part, The Fundamentals of Rural School Organization and Management.—This part is for rural teachers of little or no experience in teaching. Four hours a week. Two quarter hours as a substitute for Education 24a.

First six weeks:

7:15, Room 11, Mr. McIntosh.

Education 24b (Rural). Second Part, Rural School Problems and Plans of Organization.—This part is for graduates of the two-year grade curriculum or for teachers of four or more years of experience. Four hours a week. Two quarter hours as a substitute for Education 24b.

First six weeks:

8:10, Room 11, Mr. McIntosh.

II. Practice Teaching

20a, 20b, 21a, 21b, 22a, or 22b. **Practice Teaching.**—The number of students admitted to practice teaching in the first six weeks of the summer quarter is limited. See "Training School." Preference is given to sophomores in the two-year grade curriculum who completed the freshman year with B average.

Students registered for practice teaching should see Mr. Allen on registration day. Five hours a week. Two quarter hours for each half course (20a or 20b, etc.).

First six weeks:

Hours to be arranged.

III. Education

Note.—Beginning with the fall quarter, 1928-29, a change was made in the content of the three courses in education required of freshmen and then called "Psychology 20, 21, 22." The new courses are now listed as Education 20, 21, 22.

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

Education 20 (Rural) may be substituted for Education 20, and Education 24 (Rural) for Education 24.

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

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 deal in greater detail with the several topics introduced in this beginning course. Eight hours a week. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 39, Mr. May.

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

SUMMER QUARTER PROGRAMME, 1932, First Six Weeks

Morning Exercises, Assembly Room, Main Building, 9:00 to 9:30. Training School Session, Training School Building, 9:00 to 12:00. Piano and Voice Lessons, Third Floor, center. Band and Orchestra, Music Building. Parent-Teachers Course, one week, at 3:15 on Tuesday, Wednesday, and Friday, and at 9:30 on Thursday and Saturday, Room 16. Conferences in Reception Room at times arranged.

7:15-8:05	8:10-9:00	9:30-10:20	10:25-11:15	11:20-12:10	1:30-2:20	2:25-3:15	3:15-4:05
I Education 24* Mr. Allen R. 8T	Education 45* Mr. Beu R. 18		I Education 24* R. 7T	Teaching 20, 21 or 22 Mr. Allen T		Education 45*	
Education 47* Mr. Beu R. 18	I Penmanship 20 Miss Kassabaum R. 8T	II Penman- ship 20 R. 8T	III Penman- ship 20 R. 8T	Practice for Penmanship 20 R. 8T	Education 47*		
Education 49* Mr. MacGregor R. 17		Education 44* Mr. MacGregor R. 17			Education 49*		
II Education 24* Mr. Sievers R. 10	Education 21* Mr. Sievers R. 10				II Education 24*	Education 21*	
I Education 23* Mr. Gore R. 26	II Education 23* Mr. Gore R. 40		Library 20-3, 5 Miss Booth R. 18		I Education 23*	II Education 23*	
Education 20* Mr. May R. 39	Education 22* Mr. May R. 17				Education 20*	Education 22*	
Educ. 24a (Rural) Mr. McIntosh R. 11	Educ. (Rural) 24b R. 11	Educ. 20a (Rural) R. 11	Educ. 20b (Rural) R. 11				
Music 24a Miss More	Music 37a	Music 38b	Music 38a	Music Observation T			
	English 46* Miss McKinney R. 23		Reading 24b Miss McKinney R. 23				
	English 43a Miss Daringer R. 39		English 34* Miss Daringer R. 39			English 43b Miss Daringer R. 39	
English 45* Mr. Widger R. 27	English 37* Mr. Widger R. 27		English 35* Mr. Guinagh R. 40		English 45*	English 37*	
	English 25a Miss Orcutt R. 29	Reading 24a Miss Orcutt R. 30	Dramatics 39* Miss Orcutt R. 30				
		English 44a or b Mr. Andrews R. 27	English 20a or b Mr. Andrews R. 27	English 21a or b Mr. Andrews R. 27			
I English 26* Miss Neal R. 24	II English 26* Miss Neal R. 24				I English 26*	II English 26*	
	English 24* Miss Parker R. 32		English 22b Miss Parker R. 32	English 22a Miss Parker R. 32		English 24*	
Arithmetic 20* Miss Hostetler R. 25	Arithmetic 21* Miss Hostetler R. 25	Trigonometry 33a Mr. Lantz R. 18	Algebra 31a Mr. Lantz R. 18	Algebra 32a Mr. Lantz R. 18	Arithmetic 20*	Arithmetic 21*	Coaching 33 Mr. Lantz R. 18
History 38* Mr. Guinagh R. 40	Algebra 36 (daily) Mr. Taylor R. 26	Algebra 36-2, 4, 6 Analytics 34-3, 5 Mr. Taylor R. 26	Analytics 34 (daily)	Analytics 34-2	History 38*		
Sociology 43* Mr. Thomas R. 35	History 48 (32)* Mr. Thomas R. 35				Sociology 43*	History 48 (32)*	
History 35* Mr. Coleman R. 30	Government 44* Mr. Coleman R. 30				History 35*	Government 44*	
History 34* Mr. Seymour R. 9	History 33* Mr. Seymour R. 9				History 34*	History 33*	
Geography 21* Miss Weller R. 16	Geography 36* Miss Weller R. 16				Geography 21*	Geography 36*	
Geography 32* Miss Means R. 7T	Geography 20* Miss Means R. 7T				Geography 32*	Geography 20*	
I Hygiene 20a Dr. Seymour R. 38	I Hygiene 20b Mr. Scruggs R. 38	II Hygiene 20b Mr. Scruggs R. 38	II Hygiene 20a Dr. Seymour R. 38				
Physiology 43* 2, 3, 4, 5, 6 Mr. Spooner	Physiology 44* 2, 3, 4, 5, 6 Dr. Seymour	Physiology 43*-2, 4, 6 and 10:25-3 Physiology 44*-2, 4, 6 and 9:30-3					
	Zoology 21*-2, 3, 4, 5 Third Floor North		Zoology 20*-2, 3, 4, 5 Miss Marks		Zoology 20* 2, 3, 4, 5 Mr. Spooner	Zoology 21*-2, 3, 4, 5 Mr. Scruggs	
Botany 22*-2, 3, 5, 6 Mr. Stover Third Floor Southwest		Botany 22*-2, 3, 5, 6		Botany 20* 2, 3, 5, 6		Botany 20*-2, 3, 4, 5 Miss Marks	
		Botany 43*, 44*, or 45*-2, 3, 5, 6 Zoology 46*, 47*, or 48*-2, 3, 4, 5					
	Physics 43* (Daily) Mr. Railsback R. 36		Physics 44*, 45*-2, 3, 4, 6 Mr. Railsback R. 33		Physics 44*, 45*-2, 3, 4, 5 Mr. Railsback R. 33		
Physics 30* (Daily) Mr. Little R. 36			Physics 43*-2, 3, 4, 6 Mr. Little R. 36		Physics 30*-2, 3, 4, 5 Mr. Little R. 36		
	Chemistry 30*-2, 3, 4, 5, 6 Mr. Phipps R. 37						
Art 43*, 44*, 45*, 50* (Daily) Miss Meeser Third Floor East			Art 33*, 34*, 40* (Daily)		Note: Each Art Course requires six hours a week in addition to the ten hours scheduled.		
Art 30*, 31*, 32* (Daily) Miss Mooers R. 2P			Art 24* (Daily) 2P				
Manual Arts 46a Mr. Ashley R. 11P		Manual Arts 55* (Daily) with one additional hour a week R. 11P		Manual Arts 30, 31, 32, 40, 50, 51, 52 R. 16P	Note: Each course in mechanical drawing requires 4 additional hours a week.		
Manual Arts 48a or b; 54a or b Mr. Hughes R. 19P		Manual Arts 43a or b R. 4P		Manual Arts 53a or b; 57a or b R. 19P			
	I Manual Arts 59*, 60*, 61* (Daily) with one additional hour a week Mr. Landis R. 17P			II Manual Arts 59*, 60*, 61*-2, 3, 4, 5, 6 with one additional hour a week R. 17P			
	I Manual Arts 24a Mrs. Ashley R. 16P	II Manual Arts 24a R. 16P	II Manual Arts 24b R. 16P				
°Clothing 30*-2, 3, 4, 5, 6 Miss Braun R. 22P	°Clothing 32*-2, 3, 4, 5, 6 R. 22P				°Note: In clothing and foods courses, ten hours are indicated on the programme, six additional hours a week are to be arranged.		
	°Clothing 31*, 43*-2, 3, 4, 5, 6 Miss Braun R. 22P		°Clothing 45*-2, 3, 4, 5, 6 R. 22P				
°Foods 30*-2, 3, 4, 5, 6 Miss Mintle R. 23P	H. E. 43a*, 45a*, 46a* (Daily) R. 27P		°Foods 43a*, 44a*, 45a*-2, 3, 4, 5, 6 R. 23P		Note: H. E. 43a*, 44a*, 45a* require eight hours a week for each course (3 additional hours to be arranged).		

Regular work gives eight quarter hours. No student is permitted to register for more than ten quarter hours of credit toward graduation. 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 unless otherwise indicated. Single period courses, except penmanship, omit Friday morning or Saturday afternoon periods. The periods for science courses are indicated by the Arabic numerals following a dash, the numbers showing the days of the week counted from Monday as one.

percepts and ideas; transfer of training; individual differences, intelligence; the interrelation of various forms of behavior. Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 10, Mr. Sievers.

Second six weeks:

7:15 and 1:30, Room 10, Mr. Sievers.

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. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 17, Mr. May.

23. **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: Education 20 and 21, or experience in teaching. Eight hours a week. Four quarter hours.

First six weeks:

Section I, 7:15 and 1:30, Room 26, Mr. Gore.

Section II, 8:10 and 2:25, Room 40, Mr. Gore.

Second six weeks:

8:10 and 2:25, Room 10, Mr. Sievers.

24. **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 of securing study and attention to the recitation and conditions determining desirable class activity are emphasized. Prerequisite: Education 20 and 21, or experience in teaching. Eight hours a week. Four quarter hours.

First six weeks:

Section I, 7:15, Room 8T, and 10:25, Room 7T, Mr. Allen.

Section II, 7:15 and 1:30, Room 10, Mr. Sievers.

Second six weeks:

7:15 and 1:30, Room 17, Mr. MacGregor.

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. Prerequisite: Junior classification or experience in teaching. Eight hours a week. Four quarter hours.

First six weeks:

9:30 and 10:25, Room 17, Mr. MacGregor.

Second six weeks:

7:15 and 1:30, Room 18, Mr. Beu.

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. Prerequisite:

Junior classification or experience in teaching. Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 18, Mr. Beu.

Second six weeks:

8:10 and 2:25, Room 18, Mr. Beu.

47. **Social Psychology.**—The chief factors which condition and make possible the life of man in groups; the effect of various types of human association on the mental processes of the individual; the products of the interaction between minds, as in language, art, morals, and social institutions; the differences of important social groups, such as the mob, the gang, clubs, classes, sects, nations, are studied with reference to their bearing upon education. Prerequisite: Junior classification. Eight hours a week. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 18, Mr. Beu.

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 cooperate 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. Prerequisite: Junior classification or experience in teaching. Eight hours a week. Four quarter hours.

Second six weeks:

9:30 and 10:25, Room 17, Mr. MacGregor.

49. **Elementary Education.**—This course is intended to acquaint students with some of the major problems of the elementary school. Among the topics included are: the scope of elementary education—its origins and functions; the elementary school curriculum; evaluation of certain techniques and procedures employed in progressive schools; some problems of administration; the training of the elementary school teacher. Eight hours a week. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 18, Mr. MacGregor.

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.

Note.—1. Students registered for English 20a whose work is superior in the first six weeks may on the recommendation of the instructor receive credit for English 20 and be admitted to English 21a in the second six weeks.

Students registered for 21a in the second six weeks are given an opportunity to earn credit for 21b also, provided they are not registered for more than eight quarter hours including English 21a.

2. Students registered for English 21a in the first six weeks may on recommendation of the instructor be admitted to an examination at the close of the six weeks for credit in English 21b also, provided they are not registered for more than eight quarter hours including English 21a.

3. In the second six weeks students registered for English 20a (or 21a) may receive credit for 20b (or 21b) on the same conditions.

20a. **The First Half of English 20.**—Four hours a week. Two quarter hours. (See note).

First six weeks:

10:25, Room 27, Mr. Andrews.

Second six weeks:

10:25, Room 40, Miss Ragan.

20b. **The Second Half of English 20.**—Prerequisite: English 20a. Four hours a week. Two quarter hours.

First six weeks:

10:25, Room 27, Mr. Andrews.

Second six weeks:

10:25, Room 40, Miss Ragan.

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

21a. **The First Half of English 21.**—Prerequisite: English 20. Four hours a week. Two quarter hours.

First six weeks:

11:20, Room 27, Mr. Andrews.

Second six weeks:

10:25, Room 40, Miss Ragan.

21b. **The Second Half of English 21.**—Prerequisite: English 21a. Four hours a week. Two quarter hours.

First six weeks:

11:20, Room 27, Mr. Andrews.

Second six weeks:

10:25, Room 40, Miss Ragan.

22a. **Children's Literature.**—The main purpose of Courses 22a and 22b is to give an introduction to the field of literature for the lower grades with something of the purposes and the methods of teaching. In Course 22a, fable, folk-lore, myth, legend, romance are considered. Four hours a week. Two quarter hours.

First six weeks:

11:20, Room 32, Miss Parker.

22b. **Children's Literature.**—See Course 22a. In Course 22b, poetry and modern stories are considered. Four hours a week. Two quarter hours.

First six weeks:

10:25, Room 32, Miss Parker.

24. **Methods of Teaching Composition in the Grades.**—This course covers the teaching of language work and composition in the grades as fully as time permits, including discussion of material, purposes, theme-topics, correcting compositions, and methods of teaching. Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 32, Miss Parker.

25. **Introduction to Literature.**—The course is designed to give some understanding of the most common types of English literature, including lyric and epic poetry, the essay, the novel, and the short story, through a study of selected masterpieces. Required in all four-year curricula.

25a. Four hours a week. Two quarter hours.

First six weeks:

8:10, Room 29, Miss Orcutt.

26. **English Grammar.**—This course attempts to cover the grammar taught in the seventh and eighth years with special emphasis

on the sentence. Required in the English curriculum. Eight hours a week. Four quarter hours.

First six weeks:

Section I, 7:15 and 1:30, Room 24, Miss Neal.

Section II, 8:10 and 2:25, Room 24, Miss Neal.

Second six weeks:

7:15 and 1:30, Room 40, Miss Ragan.

30, 31. **Nineteenth Century Prose Fiction.**—The primary aim is to arouse the student's interest in the best fiction, and the secondary to furnish him with standards of judgment.

30. Eight hours a week. Four quarter hours.

First six weeks, 1933:

31. Eight hours a week. Four quarter hours.

First six weeks, 1934:

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

First six weeks:

10:25 and 11:20, Room 39, Miss Daringer.

35. **Greek Drama.**—Origins and development of classical drama: Aeschylus, Sophocles, Euripides.

First six weeks:

10:25 and 11:20, Room 40, Mr. Guinagh.

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. Four quarter hours.

Second six weeks:

8:10 and 9:30, Room 38, Mr. Guinagh.

37. **Modern Drama.**—The purpose of this course is to familiarize the student with what is best in modern drama. Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 27, Mr. Widger.

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. Four quarter hours.

First six weeks:

10:25 and 11:20, Room 30, Miss Orcutt.

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. Two quarter hours.

First six weeks:

8:10, Room 39, Miss Daringer.

43b. **Poetry.**—Prerequisite: Junior College required English. Four hours a week. Two quarter hours.

First six weeks:

2:25, Room 39, Miss Daringer.

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. Two quarter hours for a or b. Four quarter hours for a and b for the quarter (12 weeks).

First six weeks:

9:30, Room 27, Mr. Andrews.

Second six weeks:

9:30, Room 40, Miss Ragan.

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. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 27, Mr. Widger.

Second six weeks:

10:25 and 11:20, Room 27, Mr. Widger.

46, 47, 48. **Modern English Poetry.**—Appreciation of the art of poetry, and a study of some of the chief English poets, as they illustrate this art.

46. **From "Beowulf" to Shakespeare.**—Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 9:30, Room 23, Miss McKinney.

47. **From Milton to Burns.**—Eight hours a week. Four quarter hours.

Second six weeks:

8:10 and 9:30, Room 27, Mr. Widger.

48. **Nineteenth Century Poetry.**—Eight hours a week. Four quarter hours.

First six weeks, 1933:

GEOGRAPHY

20. **Principles of Human Geography.**—Required in the first year of the two-year curriculum for preparation of teachers for the grades. Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 7T, Miss Means.

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. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 16, Miss Weller.

Second six weeks:

8:10 and 2:25, Room 16, Miss Zeller.

30. **Geography of North America.**—Prerequisite: Geography 20 and 21. Eight hours a week. Four quarter hours.
Second six weeks:
7:15 and 1:30, Room 16, Miss Zeller.
31. **Geography of South America.**—Prerequisite: Geography 20 and 21. Eight hours a week. Four quarter hours.
First six weeks, 1933:
32. **Geography of Europe.**—Prerequisite: Geography 20 and 21. Eight hours a week. Four quarter hours.
First six weeks:
7:15 and 1:30, Room 7T, Miss Means.
36. **Geology.**—Prerequisite: Geography 20. Eight hours a week. Four quarter hours.
First six weeks:
8:10 and 2:25, Room 16, Miss Weller.

HISTORY AND SOCIAL SCIENCE

I. History

- 47 (31). **The History of Europe, 1500-1815.**—Eight hours a week. Four quarter hours.
Second six weeks:
8:10 and 2:25, Room 35, Mr. Thomas.
- 48 (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 Germany, the colonial expansion and commercial rivalry of the important states of Europe, and the causes of the great war. Eight hours a week. Four quarter hours.
First six weeks:
8:10 and 2:25, Room 35, Mr. Thomas.
33. **American Political and Institutional History to 1880.**—Eight hours a week. Four quarter hours.
First six weeks:
8:10 and 2:25, Room 9, Mr. Seymour.
34. **The Political and Institutional History of the United States, 1800-1865.**—Eight hours a week. Four quarter hours.
First six weeks:
7:15 and 1:30, Room 9, Mr. Seymour.
Second six weeks:
7:15 and 1:30, Room 35, Mr. Thomas.
35. **The Political and Institutional History of the United States, 1865 to the Present.**—Eight hours a week. Four quarter hours.
First six weeks:
7:15 and 1:30, Room 30, Mr. Coleman.
Second six weeks:
8:10 and 2:25, Room 9, Mr. Coleman.
38. **History of Greek Civilization.**—Eight hours a week. Four quarter hours.
First six weeks:
7:15 and 1:30, Room 40, Mr. Guinagh.

39. Political and Institutional History of Rome.—Eight hours a week. Four quarter hours.

Second six weeks:

7:15 and 1:30, Room 38, Mr. Guinagh.

II. Sociology

43. The Principles of Sociology.—Eight hours a week. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 35, Mr. Thomas.

III. Government

43. State and Local Government.—Eight hours a week. Four quarter hours.

First six weeks, 1933:

44. The National Government.—Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 30, Mr. Coleman.

45. Modern Governments of Europe and America.—Eight hours a week. Four quarter hours.

Second six weeks:

7:15 and 1:30, Room 9, Mr. Coleman.

HOME ECONOMICS

The work of the Home Economics Department is divided into three parts: I, Clothing. II, Foods. III, Home Economics.

I. Clothing

30. Textiles.—Beginning Clothing. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, daily, with six additional hours to be arranged, Room 22P, Miss Braun.

31. Clothing Economics.—Problem: A smock. Sixteen hours a week. Four quarter hours.

First six weeks:

8:10 and 9:30, daily, with six additional hours to be arranged, Room 22P, Miss Braun.

32. Garment Making.—Prerequisite: Clothing 31. Sixteen hours a week. Four quarter hours.

First six weeks:

9:30 and 10:25, daily, with six additional hours to be arranged, Room 22P, Miss Braun.

43. Advanced Clothing: Selection and Construction.—Problem: Silk dresses. Prerequisite: Clothing 30 and 31. Sixteen hours a week. Four quarter hours.

First six weeks:

8:10 and 9:30, daily, with six additional hours to be arranged, Room 22P, Miss Braun.

44. **Children's Clothing.**—Emphasis is laid on selection, make-over, and construction. Prerequisite: Clothing 31. Sixteen hours a week. Four quarter hours.

First six weeks, 1933:

45. **Clothing.**—Problem: A silk dress or the equivalent: Renovation, care, and repair of clothing. Prerequisite: Clothing 43, or the equivalent. Sixteen hours a week. Four quarter hours.

First six weeks:

10:25 and 11:20, daily, with six additional hours to be arranged, Room 22P, Miss Braun.

II. Foods

30s. **Foods and Nutrition.**—Study and preparation of foods on meal basis plan. Relation of health to food study. Breakfast. Sixteen hours a week. Four quarter hours.

First six weeks:

7:15 and 8:10, daily, with six additional hours to be arranged, Room 23P, Miss Mintle.

31s. **Foods and Nutrition.**—Study and preparation of foods on meal basis plan. Luncheons. Christmas candies. Sixteen hours a week. Four quarter hours.

First six weeks, 1933:

43s. **Foods and Nutrition.**—Experimental Cookery. Conventional methods in cookery are studied experimentally. Recipes are analyzed and effects of various proportions are studied. Prerequisite: Foods 30, 31, 32. Sixteen hours a week. Four quarter hours.

First six weeks:

10:25 and 11:20, daily, with six additional hours to be arranged, Room 23P, Miss Mintle.

44s. **Foods and Nutrition.**—Dietetics. Principles of normal human nutrition. Application of practical feeding problems to the individual. Calculation and preparation of dietaries. Prerequisite: Foods 30, 31, 32. Sixteen hours a week. Four quarter hours.

First six weeks:

10:25 and 11:20, daily, with six additional hours to be arranged, Room 23P, Miss Mintle.

45s. **Foods and Nutrition.**—Meal planning and serving. Individual planning and preparation of meals for family groups including adaptation to needs of child. Aesthetic phase and social opportunities in meals emphasized. Prerequisite: Foods 44. Sixteen hours a week. Four quarter hours.

First six weeks:

10:25 and 11:20, daily, with six additional hours to be arranged, Room 23P, Miss Mintle.

III. Home Economics

43s. **Household Physics and Equipment.**—A study of labor-saving devices and other equipment with relation to its purchase, care, and use. Eight hours a week. Four quarter hours.

First six weeks:

9:30, daily, with three additional hours to be arranged, Room 27P, Miss Mintle.

45s. **Home Management.**—The business problems of the home are studied; budget making and ways of meeting problems of the home. Eight hours a week. Four quarter hours.

First six weeks:

9:30, daily, with three additional hours to be arranged, Room 27P, Miss Mintle.

46s. **Child Care and Training and Home Nursing.**—Physical care and training of the infant and pre-school age child. A study of the factors in the training and development of children in the home. Eight hours a week. Four quarter hours.

First six weeks:

9:30, daily, with three additional hours to be arranged, Room 27P, Miss Mintie.

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 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 in history, biography, and education. Two hours a week. One quarter hour.

First six weeks:

10:25, Wednesday and Fridays, Room 18, Miss Booth.

MANUAL ARTS

24a. **Primary and Intermediate Grade Handwork.**—This course has been worked out to meet the needs of teachers and supervisors of grades in the 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). Two quarter hours.

First six weeks:

Section I, 8:10, Room 16P, Mrs. Ashley.

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

Second six weeks:

9:30, Room 2P, Mrs. Ashley.

24b. **Primary and Intermediate Grade Handwork.**—Reed and raffia, basketry, wood work and clay work. Eight hours a week (four hours in class and four hours outside of class). Two quarter hours.

First six weeks:

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

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

Second six weeks:

10:25, Room 2P, Mrs. 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. Required in the freshman year of the manual arts curriculum. Eight hours a week. Two quarter hours.

First six weeks:

1:30, with four additional hours a week, Room 16P, Mr. Ashley.

Second six weeks:

9:30, with four additional hours a week, Room 16P, Mr. Ashley.

31. Mechanical Drawing.—Mechanical perspective, oblique and isometric drawings. Prerequisite: Course 30. Required in the freshman year of the manual arts curriculum. Eight hours a week. Two quarter hours.

First six weeks:

1:30, with four additional hours a week, Room 16P, Mr. Ashley.

Second six weeks:

9:30, with four additional hours a week, Room 16P, Mr. Ashley.

32. Mechanical Drawing.—Machine drawing developments and furniture design. Prerequisite: Course 31. Required in the freshman year of the manual arts curriculum. Eight hours a week. Two quarter hours.

First six weeks:

1:30, with four additional hours a week, Room 16P, Mr. Ashley.

Second six weeks:

9:30, with four additional hours a week, Room 16P, Mr. Ashley.

43a (or b). The Elements of Sheet Metal Practice.—The development of practical work for public schools. Eight hours a week. Two quarter hours for each half course.

First six weeks:

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

Second six weeks:

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

46a (or b). Wood Pattern-Making.—Eight hours a week for each half course (46a or 46b). Two quarter hours for each half course (46a or 46b).

First six weeks:

7:15 and 8:10, Room 11P, Mr. Ashley.

Second six weeks:

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

48a (or b). Machine Shop.—Eight hours a week for each half course (48a or 48b). Two quarter hours for each half course (48a or 48b).

First six weeks:

7:15 and 8:10, Room 19P, Mr. Hughes.

Second six weeks:

7:15 and 8:10, Room 19P, Mr. Hughes.

49. Architectural Drawing.—Prerequisite: Course 32. Eight hours a week. Two quarter hours.

First six weeks:

1:30, with four additional hours a week, Room 16P, Mr. Ashley.

Second six weeks:

9:30, with four additional hours a week, Room 16P, Mr. Ashley.

50. Architectural Drawing, Advanced.—Prerequisite: Course 49. Eight hours a week. Two quarter hours.

First six weeks:

1:30, with four additional hours a week, Room 16P, Mr. Ashley.

Second six weeks:

9:30, with four additional hours a week, Room 16P, Mr. Ashley.

51, 52. Advanced Mechanical Drawing.—Eight hours a week for each course (51 or 52). Two quarter hours for each course (51 or 52).

First six weeks:

1:30, with four additional hours for each course, Room 16P, Mr. Ashley.

Second six weeks:

9:30, with four additional hours for each course, Room 16P, Mr. Ashley.

53a (or b). **Automobile Mechanics. I. Frame, Springs, Wheels, Transmission.**—Eight hours a week for each half course (53a or 53b). Two quarter hours for each half course (53a or 53b).

First six weeks:

1:30 and 2:25, Room 19P, Mr. Hughes.

Second six weeks:

1:30 and 2:25, Room 19P, Mr. Hughes.

54a (or b). **Advanced Machine Shop.**—Eight hours a week for each half course (54a or 54b). Two quarter hours for each half course (54a or 54b).

First six weeks:

7:15 and 8:10, Room 19P, Mr. Hughes.

Second six weeks:

7:15 and 8:10, Room 19P, Mr. Hughes.

55. **Carpentry.**—Sixteen hours a week. Four quarter hours.

First six weeks:

9:30 to 12:10, daily, Room 11P, Mr. Ashley.

56. **Carpentry.**—Sixteen hours a week. Four quarter hours.

Second six weeks:

1:30 to 4:05, daily, Room 11P, Mr. Ashley.

57a (or b). **Automotive Mechanics. II. Engine, Ignition, Carburetor.**—Eight hours a week for each half course (57a or 57b). Two quarter hours for each half course (57a or 57b).

First six weeks:

1:30 and 2:25, Room 19P, Mr. Hughes.

Second six weeks:

1:30 and 2:25, Room 19P, Mr. Hughes.

59. **Printing I.**—Hand composition and beginning press work. Sixteen hours a week. Four quarter hours.

First six weeks:

Offered, 9:30 to 4:05, daily, 16 hours to be arranged, Room 17P, Mr. Landis.

60. **Printing II.**—More advanced composition and press work. Sixteen hours a week. Four quarter hours.

First six weeks:

Offered, 9:30 to 4:05, daily, 16 hours to be arranged, Room 17P, Mr. Landis.

61. **Printing III.**—Linotype and cylinder press work. Sixteen hours a week. Four quarter hours.

First six weeks:

Offered, 9:30 to 4:05, daily, 16 hours to be arranged, Room 17P, Mr. Landis.

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. Four quarter hours.

First six weeks:

7:15 and 1:30, Room 25, Miss Hostetler.

Second six weeks:

8:10 and 2:25, Room 25, Miss Hendrix.

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 class room instruction to familiarize the students with methods of instruction that can be readily adapted to the seventh and eighth grades. Eight hours a week. Four quarter hours.

First six weeks:

8:10 and 2:25, Room 25, Miss Hostetler.

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.

This course is offered in two parts:

Algebra 31a, First Half of Algebra 31. Four hours a week. Two quarter hours.

First six weeks:

10:25, Room 18, Mr. Lantz.

Algebra 31b, Second Half of Algebra 31. Four hours a week. Two quarter hours.

Second six weeks:

10:25, Room 25, Miss Hendrix.

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

This course is offered in two parts:

Algebra 32a, First Half of Algebra 32. Four hours a week. Two quarter hours.

First six weeks:

11:20, Room 18, Mr. Lantz.

Algebra 32b, Second Half of Algebra 32. Four hours a week. Two quarter hours.

Second six weeks:

11:20, Room 25, Miss Hendrix.

33. **Trigonometry.**—Offered in two parts:

33a. First Half of Trigonometry 33. Four hours a week. Two quarter hours.

First six weeks:

9:30, Room 18, Mr. Lantz.

33b. Second Half of Trigonometry 33. Four hours a week. Two quarter hours.

Second six weeks:

9:30, Room 36, Mr. Railsback.

34. **Analytics.**—First Course. Eight hours a week. Four quarter hours.

First six weeks:

9:30 on Wednesdays and Fridays, 10:25 daily, and 11:20 on Tuesdays, Room 26, Mr. Taylor.

36. **Algebra.**—Last Course. Eight hours a week. Four quarter hours.

First six weeks:

8:10 daily and 9:30 on Tuesdays, Thursdays and Saturdays, Room 26, Mr. Taylor.

MUSIC

I. Public School Music

24a. **Elementary Theory.**—The fundamentals of music are studied through ear training, dictation, and sight singing. It is a course for beginners. Five hours a week. Two quarter hours.

First six weeks:

7:15, Third floor east, Miss More.

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 24a or the equivalent. Accepted for Music 24b. Five hours a week. Two quarter hours.

First six weeks:

8:10, Third floor east, Miss More.

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.**—Organization and presentation of music in grades four to eight, inclusive. Accepted for Music 24b. Five hours a week. Two quarter hours.

First six weeks:

10:25, Third floor east, Miss More.

Note.—See note under 37a.

38b. **Intermediate Sight Singing.**—Ear training, dictation, and reading of two and three-part music, using fairly complicated rhythms. Prerequisite: Music 24a or the equivalent. Five hours a week. Two quarter hours.

First six weeks:

9:30, Third floor east, Miss More.

II. Piano and Voice Lessons

1. **Piano Lessons.** First Year, Second Year, Third Year.—One quarter hour for each course. Students should arrange the time with Mr. Koch.

2. **Voice Lessons.** First Year, Second Year, Third Year.—One quarter hour for each course. Students should arrange the time with Mr. Koch.

III. Band and Orchestra

Band and Orchestra.—Both private lessons and class instruction are offered in the first half of the summer quarter. Credit is allowed for band and orchestra at the rate of one quarter hour to those reported to the office for such credit at the close of the quarter by the Director. One quarter hour is allowed for private lessons in violin or other instrument. Students should arrange the time with Mr. Weckel.

PENMANSHIP

20. **Penmanship.**—Penmanship is offered in three sections:

First six weeks:

Section I, Palmer Certificate Class. Five hours a week. One quarter hour.

8:10, Room 8T, Miss Kassabaum.

Section II, Palmer Certificate Class. Five hours a week. One quarter hour.

9:30, Room 8T, Miss Kassabaum.

Section III, Primary Demonstration and Blackboard Writing. Five hours a week. One quarter hour.

10:25, Room 8T, Miss Kassabaum.

Note.—The 11:20 period is a practice period reserved for Palmer Certificate students who are registered in Section I or II.

PHYSICAL EDUCATION

Physical Education (Men)

33. **Athletic Coaching.**—The course includes football, basketball, and baseball. It consists of classroom 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 may be organized. Four hours a week. One quarter hour.

First six weeks:

3:15, Room 18, 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. Two quarter hours.

First six weeks:

9:30, Room 30, Miss Orcutt.

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. Two quarter hours.

First six weeks:

10:25, Room 23, Miss McKinney.

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. Four quarter hours.

First six weeks:

11:20, 2:25 and 3:15, except 11:20 on Thursdays and 2:25 and 3:15 on Saturdays, Third floor southwest, Mr. Stover and Miss Marks.

Second six weeks:

11:20, 2:25 and 3:15, except 11:20 on Thursdays and 2:25 and 3:15 on Saturdays, Third floor southwest, Miss Marks and Miss McNary.

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. Four quarter hours.

Second six weeks:

7:15, 9:30 and 10:25, except Thursdays, Third floor southwest, Miss Marks.

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. Four quarter hours.

First six weeks:

7:15, 9:30 and 10:25, except Thursdays, Third floor southwest, Mr. Stover.

43 (or 44, or 45). **Advanced Botany.**—This course is arranged to meet the needs of individual students who have had five quarters, 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. Four quarter hours.

Each six weeks:

9:30, 10:25 and 11:20, except Thursdays, Third floor southwest, Mr. Stover; Miss Marks.

II. Zoology

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

First six weeks:

1:30, 10:25, and 11:20, except Saturdays, Third floor northwest, Mr. Spooner and Miss Marks.

Second six weeks:

7:15, 10:25, and 11:20, except Fridays, Third floor northwest, Mr. Spooner and Miss McNary.

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. Four quarter hours.

First six weeks:

8:10, 2:25, and 3:15, except Saturdays, Third floor northwest, Mr. Spooner and Mr. Scruggs.

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. Four quarter hours.

Second six weeks:

8:10, except Fridays, 9:30 and 10:25, except Saturdays, Third floor northwest, Mr. Spooner.

46 (or 47, or 48). 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. Four quarter hours.

Each six weeks:

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

III. Human Physiology

43. Elementary Physiology.—The fundamental principles of animal physiology, including the chemical and physical structure of animate matter; the reactions involved in animals, including the human body, in responding to environmental conditions; the formation, structure, and functions of blood and lymph, and the fundamental structure of the nervous system with particular emphasis on reflex actions. A survey of the conditions determining the activities of living forms. Prerequisite: Junior classification. Elective. Twelve hours a week. Four quarter hours.

First six weeks:

7:15 daily, 9:30 and 10:25 on Tuesdays, Thursdays, and Saturdays, 10:25 on Wednesday, Third floor northwest, Dr. Seymour and Mr. Spooner.

44. Elementary Physiology.—A study of respiration, foods, digestion, metabolism and excretion. Prerequisite: Physiology 43. Elective. Twelve hours a week. Four quarter hours.

First six weeks:

8:10 daily, 9:30 and 10:25 on Tuesdays, Thursdays, and Saturdays, 9:30 on Wednesdays, Third floor northwest, Dr. Seymour and Mr. Spooner.

45. Elementary Physiology.—A study of circulation, the organs of internal secretion, the central nervous system, and the special senses. Prerequisite: Physiology 43. Elective. Twelve hours a week. Four quarter hours.

First six weeks, 1933:

Hygiene.—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.

20a. Personal Hygiene.—Four hours a week. Two quarter hours.

First six weeks:

Section I, 7:15, Room 38, Dr. Seymour.

Section II, 10:25, Room 38, Dr. Seymour.

Second six weeks:

Section I, 8:10, Third floor northwest, Mr. Cavins.

Section II, 10:25, Third floor northwest, Mr. Cavins.

20b. **Public Hygiene.**—Four hours a week. Two quarter hours.

First six weeks:

Section I, 8:10, Room 38, Mr. Scruggs.

Section II, 9:30, Room 38, Mr. Scruggs.

Second six weeks:

Section I, 7:15, Third floor northwest, Mr. Cavins.

Section II, 9:30, Third floor northwest, Mr. Cavins.

SCIENCE (PHYSICAL)

I. Physics

30. **Mechanics and Heat.**—Thirteen hours a week. Four quarter hours.

First six weeks:

7:15 daily, 1:30 and 2:25, except Saturdays, Room 36, Mr. Little.

31. **Magnetism and Electricity.**—Thirteen hours a week. Four quarter hours.

Second six weeks:

8:10 daily, 10:25 and 11:20, except Fridays, Room 36, Mr. Little.

43. **Radio.**—A study is made of the principles underlying radio communication. The course includes a study of some typical circuits used in receiving sets and a detailed study of the function of inductance, capacitance, and resistance in electric circuits. Types of vacuum tubes are discussed. In the laboratory, electrical measurements of parts and assembled units are made. This includes taking characteristic curves of vacuum tubes. Prerequisite: Physics 21 or 31. Thirteen hours a week. Four quarter hours.

First six weeks:

8:10 daily, and 10:25 and 11:20, except Fridays, Room 36, Mr. Railsback and Mr. Little.

44. **Electrical Measurements.**—Sixteen hours a week. Four quarter hours. Prerequisite: Physics 21 or 31.

First six weeks:

10:25 and 11:20, except Fridays, 1:30 and 2:25, except Saturdays, Room 33, Mr. Railsback.

45. **Mechanics and Heat.**—Sixteen hours a week. Four quarter hours. Prerequisite: Physics 30, 31, 32.

First six weeks:

10:25 and 11:20, except Fridays, 1:30 and 2:25, except Saturdays, Room 33, Mr. Railsback.

46. **Light and Sound.**—Sixteen hours a week. Four quarter hours. Prerequisite: Physics 30, 31, 32.

Second six weeks:

10:25 and 11:20, except Fridays; 1:30 and 2:25, except Saturdays, Room 33, Mr. Railsback and Mr. Little.

47. **Magnetism and Electricity.**—Sixteen hours a week. Four quarter hours. Prerequisite: Physics 30, 31, 32.

Second six weeks:

10:25 and 11:20, except Fridays; 1:30 and 2:25, except Saturdays, Room 33, Mr. Railsback and Mr. Little.

II. Chemistry

30. **General Inorganic Chemistry.**—Non-metals. Fifteen hours a week. Five quarter hours.

First six weeks:

8:10, 9:30, and 10:25 daily, Room 37, Mr. Phipps.

31. **General Inorganic Chemistry (Continued).**—Non-metals. Fifteen hours a week. Five quarter hours.

Second six weeks:

8:10, 9:30, and 10:25 daily, Room 37, Mr. Crowe.

THE REGULAR SCHOOL YEAR

The fall quarter of the school year 1932-1933 will begin Saturday, September 10, 1932, 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, 1932

JULY 25 TO SEPTEMBER 2, 1932

*7:15-8:05	*8:10-9:00	9:30-10:20	10:25-11:15	11:20-12:10	1:30-2:20	2:25-3:15	3:15-4:05
I Hygiene 20b Mr. Cavins History 34*	I Hygiene 20a Third Floor Northwest History 47 (31)*	II Hygiene 20b Manual Arts 24a Mrs. Ashley	II Hygiene 20a Manual Arts 24b R. 2P		History 34*	History 47 (31)*	
Mr. Thomas R. 35 Government 45*	History 35*				Government 45*	History 35*	
Mr. Coleman R. 9 History 39*	R. 9 English 36*				History 39*		
Mr. Guinagh R. 38	R. 38 English 47*						
	Mr. Widger R. 27						
English 26*		English 44b (or a) R. 40	English 20b (or a) English 21b (or a) R. 40		English 26*		
Miss Ragan R. 40	Arithmetic 20*		Algebra 31b R. 25	Algebra 32b R. 25		Arithmetic 20*	
	Miss Hendrix R. 25						
	Mr. Ashley	Manual Arts 30, 31, 32, 49, 50, 51, 52 R. 16P	Manual Arts 46b or a R. 11P		Manual Arts 56—2, 3, 4, 5, 6 (and one additional hour) R. 11P		
Manual Arts 54a or b, 48a or b Mr. Hughes R. 19P		Manual Arts 43a or b R. 4P			Manual Arts 53a or b, 57a or b R. 19P		
	Art 43*, 44*, 45*, 50* (Daily) Mrs. Moore	Art 31*, 32*, 33*, 34*, 49* (Daily) Third Floor east Education 48*					
Education 24*		R. 17			Education 24*		
Mr. MacGregor R. 17	Education 45*	Botany 43*, 44*, 45*, —2, 3, 5, 6 (permission required)			Education 44*	Education 45*	
Mr. Beu R. 18	R. 18	Miss Marks			Education 21*	Education 23*	
Education 21*	Education 23*	Zoology 46*, 47*, 48* (permission required)				Botany 20*—2, 3, 4, 5 Miss McNary	
Mr. Sievers R. 10	R. 10	Mr. Spooner					
Botany 21* 2, 3, 5, 6		Botany 21*—2, 3, 5, 6	Botany 20* 2, 3, 5, 6				
Miss Marks							
		Zoology 20*—2, 3, 4, 6					
		Miss McNary					
Zoology 20* 2, 3, 4, 6	Zoology 22* 2, 3, 4, 6	Zoology 22*—2, 3, 4, 5					
Mr. Spooner							
		Chemistry 31—2, 3, 4, 5, 6					
	Mr. Crowe R. 37						
	Physics 31* 2, 3, 4, 5, 6	Trigonometry 33b R. 36	Physics 31*—2, 3, 4, 6 R. 36		Physics 46* (47*)—2, 3, 4, 5 Mr. Railsback, Mr. Little		
Geography 30*	Geography 21*		Physics 46* (47*)—2, 3, 4, 6 R. 33		Geography 30*	Geography 21*	
Miss Zeller R. 16	R. 16						

Add four additional hours a week in Manual Arts 30, 31, 32, 49, 50, 51, 52.

For explanatory notes see programme for first six weeks.

* Morning exercises Tuesdays only 9:00 to 9:30. On other days the first period will begin at 7:40 and close at 8:30; the second period will begin at 8:35 and close at 9:25.