

Water-Color Painting	42 Weeks
Composition and Design.....	24 "

Course in Drawing.

Psychology	12 Weeks
School Management	12 "
Pencil Sketching	24 "
Physical Culture	36 "
History of Education.....	12 "
Blackboard Sketching	16 "
History of Art	6 "
Water Color	42 "
Pen and Ink and Charcoal.....	12 "
Composition and Design.....	24 "
Industrial Work	12 "
Clay Modeling.	
Paper Cutting.	
Basket Weaving.	
Practice Teaching	36 Weeks
Methods	42 "
Kindergarten.	
Grades.	
High School.	

INSTRUMENTAL MUSIC.

Piano.

Two courses in piano study are offered to students desiring to specialize in that work. The first is a teacher's course comprising three years of piano study and the following work in theory:

Harmony, Ear Training, Counterpoint, Elementary Vocal, Advanced Vocal, History of Music, Methods in piano teaching. Practice teaching in connection with the methods is also required, special attention being given to the teaching of children. The following literary credits are also required for a teacher's certificate: Rhetoric, English Literature, American Literature, Classics, two units of Modern Language, Algebra, General Methods, General History, Sound in Physics.

The Second Course in Piano.

The second course in piano is a diploma course requiring one extra year of piano study after the completion of the teacher's course. During this year the student must devote at least four hours a day to piano practice and must give a public recital. The following is a general outline of the piano work.

Preparatory. Position of hand, fundamental touches, scales, chords, arpeggios. Studies equivalent to first two grades of Standard Graded Course.

First Year. Two finger exercises, scale, chords, arpeggios and octave work. Studies from Czerny, Heller and Standard Graded Course Books III, IV. Selected Sonatinas. Pieces for artistic training. Memorizing.

Second Year. Technical exercises for fingers, wrist and arm. Scales, arpeggios, chords and octaves. Studies from Czerny, Heller, Loeschorn and Standard Graded Course Books V and VI. Sonatas by Haydn and Mozart. Preludes and easier pieces of Bach. Pieces for artistic training. Memorizing.

Third Year. Technical exercises continued. Studies from Czerny, Heller, Cramer and more modern composers. Bach inventions and Suites. Pieces for artistic training. Memorizing.

Fourth Year. Technical exercises continued. Studies from Cramer, Czerny, Clementi, and more modern composers. Sonatas by Beethoven, Standard Course Books VII and VIII. Sonatas, Fugues and Suites from Bach. Pieces for artistic training. Memorizing.

Band and Orchestra.

The Ferris Institute also offers thorough instruction on the violin, mandolin, cornet, clarinet, trombone, orchestra and band instruments.

DEPARTMENT OF PHARMACY.

The work of the department of pharmacy is the outgrowth of a number of years of actual experience in preparing students for pharmacy. In outlining the work, an effort has been made to prepare a course of study that is practical, systematic, and thorough—a course not too elaborate and advanced for the student who needs to begin at the foundation, yet complete enough for the student who wishes to become a thorough and practical pharmacist.

According to the requirements of the State Board of Pharmacy, candidates for examination as registered pharmacists

who do not present a certificate from an accredited school of pharmacy must have at least four years' actual experience compounding drugs in a retail drug store, under the supervision of a registered pharmacist. For registered druggist, two years' experience is required. Students, however, may offer two years' experience in a store and eighteen months' work in the department of pharmacy of any accredited school for registered pharmacist. For further information, see Pharmacy catalog.

Course of Study.

FIRST YEAR.

First Semester—

Pharmacy.
General Chemistry.
Botany.
Latin or English.

Second Semester—

Pharmacognosy and Materia
Medica.
Physiology.
Analytical Chemistry (Qualitative).
Latin or English.

SECOND YEAR.

First Semester—

Analytical Chemistry (Quantitative).
Organic Chemistry.
Official Pharmacy.

Second Semester—

Official Pharmacy.
Prescription Practice.
Incompatibilities.
Toxicology.
Review.

Laboratory work accompanies the above course. Each student is required to spend three hours a day in the Laboratory. For information concerning recent legislation and details of course, send for What School and Pharmacy Catalog.

BUSINESS DEPARTMENT.

Twentieth century progress demands that man be educated for business pursuits. The great world of commerce no longer refuses to recognize the value of special training. American push and enthusiasm not infrequently prevent our business colleges from offering a broad and dignified course of study. This school holds out no inducements to the youth who can not spell and capitalize correctly, who can not use his mother tongue with ease and propriety. This school seeks the patronage of men and women who believe in the dignity of business, who believe in making thorough preparation for business. The business department of this school is essentially professional. It aims to meet the most exacting demands of the busi-

ness world. Therefore, the candidate who graduates from this department has reason to be proud of his chosen vocation.

Course of Study—Two-Term Plan.

First Term (12 weeks).

Written Arithmetic.
Mental Arithmetic.
*Typewriting.
Bookkeeping (Elementary).
Penmanship.
Rapid Calculation.
Spelling.
Business Correspondence.

Second Term (12 weeks).

Commercial Law.
*Typewriting.
Bookkeeping (Advanced).
Penmanship.
Banking.
Business Practice.
Corporation Accounting.

THE THREE-TERM PLAN.

First Term (12 weeks).

Written Arithmetic.
Mental Arithmetic.
Bookkeeping (Elementary).
Penmanship.
Spelling.

Second Term (12 weeks).

Written Arithmetic.
Rapid Calculation.
Bookkeeping (Advanced).
*Typewriting.
Penmanship.
Commercial Law.
Business Correspondence.

Third Term (12 weeks).

Penmanship.
Bookkeeping (Special Sets, Elective).
*Typewriting.
Corporation Accounting.
Business Practice.
Banking.

*By special permission of the Principal, Commercial Geography can be substituted for Typewriting.

For further information, send for Business Catalog.

SHORTHAND DEPARTMENT.

In this age of electricity, man feels the need of rapid graphic expression. Stenography supplies this need. The business man no longer toils at his desk for hours, writing letters with a quill pen. He dictates his letters to a thoroughly trained stenographer. This stenographer turns to the typewriting machine and transcribes these letters rapidly and accurately. The stenographer of superior tact and skill not infrequently improves the language of the dictator. This department recognizes the value of tact and skill, and advises only the active and ambitious candidate to enter upon this course. The business world has too many incompetent stenographers.

The superior scholar, as a rule, becomes the superior stenographer.

Note: We teach both Pitman and Gregg.

Course of Study.

English Composition.	Office Practice.
English Grammar.	Bookkeeping (Optional).
Spelling.	Correspondence.
Typewriting.	Phonographic Dictation.
Penmanship.	Mimeographing.
Shorthand Principles.	Manifolding.
Beginning Dictation.	Letter Filing.
Advanced Dictation.	

Schedule of Studies.

FIRST TERM.

Shorthand Principles. Two recitations daily.
English.
Spelling.
Typewriting. Two or more recitations daily.
Correspondence.

SECOND TERM.

Shorthand Dictation—New Matter. Two recitations daily.
English or Rhetoric.
Spelling.
Typewriting. Two or more recitations daily.
Correspondence.
Penmanship.

THIRD TERM.

Shorthand Dictation—New Matter. Two recitations daily.
Spelling.
Penmanship.
English or Rhetoric.
Typewriting. Two or more recitations daily.
Office Practice. Four weeks.
Bookkeeping (optional).
Mimeographing.
Manifolding.
Phonographic Dictation.

Two-Term Plan.

For those having had the necessary preparation the following schedule is offered:

FIRST TERM.

Shorthand Principles. Two recitations daily.
Spelling.
Typewriting. Two or more recitations daily.
Correspondence.
Beginning Dictation.

SECOND TERM.

Dictation—New Matter. Two recitations daily.
Phonographic Dictation.
Typewriting. Two or more recitations daily.
Office Practice.
Mimeographing.
Manifolding.
Letter Filing.

Send for Shorthand Catalog.

TYPEWRITING.

One of the features most commonly neglected in shorthand schools is rapid and accurate typewriting. Typewriting cannot be learned in any haphazard way. Skill in any line of work is secured by intelligent practice. We give a course in typewriting unsurpassed by any other school in this country. We have ninety machines in use daily. This course is pursued in connection with bookkeeping, shorthand and telegraphy and is under the direction of a special teacher.

HIGH SCHOOL GRADUATES

Many ambitious high school graduates who are anxious to pursue a college or university course are, for the time being, barred on account of lack of funds. You are asking: "What can I do to earn money so that I may gratify my ambition?" The Ferris Institute has already answered this question to the satisfaction of thousands. Here is the answer: Master shorthand, typewriting and the fundamentals of bookkeeping. With this equipment, you are absolutely sure of a position, at a good salary, for twelve months in the year. This is the shortest road to the realization of your ambition. Furthermore, this training is a guarantee against financial failure, whatever your vocation. It is an asset that makes the would-be dentist, doctor, lawyer, preacher, teacher and captain of industry strong and confident. This preparation has enabled many young people to earn a salary and attend college, university or professional school at one and the same time. Once more we say to high school graduates: We have called your attention to the short road that leads to the higher institution of learning.

CIVIL SERVICE DEPARTMENT

We call particular attention to the examination for stenographers, bookkeepers, and forestry clerks, the latter being a combination requiring both shorthand and bookkeeping.

The entrance salaries paid by the government are, as a rule, larger than those paid by many private concerns. A young man eighteen years of age, having graduated from high school and taken a business course in the Ferris Institute, should without trouble pass the bookkeeper's or stenographer's examination and secure a position in the government service at Washington at an entrance salary of \$75 a month. This is more than enough to pay his living expenses and tuition fees, etc., for a course of law, medicine, or engineering at one of the Washington professional schools. In six years' time he would have completed what corresponds to the regular four-year college course, and in the meantime his salary would have increased to \$1,500 or \$1,600.

If the candidate can take dictation at the rate of 140 words a minute on such matter as is found in the **Congressional Record** and makes a perfect transcript of it, he will be graded 100%. If he writes 120 words a minute, he will be graded 90%; for 100 words, 80%; and for 80 words, the lowest dictation given, 70%.

Students who enroll in the Ferris Institute for this work are given thorough training for these examinations.

Government Requirements.

Stenographer (male and female), Departmental and Field Service.—Age limit, 18 years or over. Entrance salary, \$600 to \$1,500.

Subjects of examination and relative weights:

Stenography, 70.
Penmanship, 5.
Report Writing, 10.

Arithmetic, 5.
Copying from Rough Draft, 10.

Age limit in Isthmian Canal Service is 20 to 45 years, and

in the Philippine Service, 18 to 40 years. Men only will be admitted to these two examinations.

Bookkeeper, Departmental Service.—Age limit, 18 years or over. Entrance salary, \$720 to \$1,200.

Subjects of examination and relative weights:

Spelling, 10.	Copying and Correcting Manuscript, 10.
Arithmetic, 15.	Bookkeeping, 40.
Penmanship, 10.	
Report Writing, 15.	

Clerk.—Departmental service. Age limit, 18 years or over. Entrance salary \$600 to \$1,000.

Subjects of Examination and relative weights:

Spelling, 10.	Letter Writing, 25.
Arithmetic, 20.	Copying from Rough Draft, 15.
Penmanship, 10.	Time, 20.

Clerk and Carrier.—Postoffice service. Age limit 18 to 45. Entrance salary, \$600 to \$720.

Subjects of Examination and relative weights:

Spelling, 10.	Copying from Plain Copy, 10.
Arithmetic, 20.	Geography of United States, 10.
Letter Writing, 20.	Reading Addresses, 10.
Penmanship, 20.	

Kindergarten Teacher.—Indian Service. Age limit, 20 to 50 years. Entrance salary, \$600 to \$720.

Subjects of Examination and relative weights:

Penmanship, 5.	Nature Study, 5.
Songs, Games and Stories, 15.	Drawing, Freehand, 10.
Spelling and Copying, 5.	Psychology of Childhood, 10.
Pedagogy (essay, 100 to 250 words), 10.	Use of Kindergarten Materials, 15.
Arithmetic and Form Study, 10.	Physiology and Hygiene, 5.
Language, 5.	Geography, 5.

Teacher.—Indian Service. Age limit, 20 to 50 years. Entrance salary, \$600 to \$720.

Subjects of Examination and relative weights:

Arithmetic, 10.	History and Government of U. S., 10.
Algebra, Elementary, 10.	Drawing, Freehand, 5.
Pedagogy and Elements of Kindergarten, 15.	Physiology and Hygiene, 5.
Penmanship, 5.	Nature Study, 5.

Spelling and Copying, 5.
Grammar, 10.
Geography, 5.

American Literature, Elementary, 5
Training and Experience, 10.

The Ferris Institute offers exceptional advantages to those who wish to enter the government service. Preparation can be made for other departments than those mentioned above, except for Railway Mail. This has been discontinued.

TELEGRAPHY DEPARTMENT.

The business world makes a variety of demands. The Ferris Institute is on the alert to meet these demands. Railroad officials seek the services of competent men. Among the railroad employes are found telegraphers. Fifteen years ago the Ferris Institute organized a telegraphic department. After studying carefully the needs of telegraph operators, it was decided to recommend that candidates practice telegraphy three or four hours a day, and in addition to this give considerable attention to spelling, penmanship, typewriting, and the elements of bookkeeping. After attaining a fair degree of proficiency in receiving and sending, the student is advised to enter a railroad office and perfect his work. The candidate does not, therefore, complete his course in the school. The earnest student completes his school preparation in four or six months, copying and sending thirty words per minute.

Course of Study.

Spelling.
Business Correspondence.
Penmanship.
Mental Arithmetic.
Business Arithmetic.
Rapid Addition.
Short Course in Bookkeeping.

Sending twenty-five words per
minute.
Copying thirty words per minute.
Time Card Rules.
Switch-board.
Typewriting.

For further information, send for Business, Shorthand and Telegraphy Catalog.

DEPARTMENT OF COMMON ENGLISH.

As stated elsewhere in this catalog, the mission of the Ferris Institute lies along three lines, not the least important of which is to give the backward student a helping hand, to

make it possible for the young man and the young woman who have had but few opportunities to acquire the elements of a common English education. In this department young men from the farm, the shop, the woods, find a place. Here, too, the student who is preparing to enter the commercial or the shorthand departments, and who feels the need of a thorough grounding in the fundamentals of English and allied studies, lays a foundation, without which bookkeeping and shorthand too often prove of little value. What the business world demands of a young man today is, next to character and accuracy, the ability to use clear, simple and forcible English.

The work of the department includes Reading, Spelling, Grammar and Composition, Letter Writing, Arithmetic, Geography, United States History, Civil Government, Drawing, Vocal Music, Physical Culture, Rapid Calculation, Business Correspondence, Penmanship, Physiology.

FOREIGNERS

During the past ten years, the Ferris Institute has enrolled a large number of young men who came to America from some foreign country. Finlanders, Norwegians, Swedes, Danes, Hollanders, Germans, Armenians and Mexicans were among the number. Frequently these young men were fairly well educated in their native tongue. What they wanted was a practical knowledge of the English language. The Ferris Institute welcomes such young people. Special arrangements have been made to meet the demands of these students. The principal aim is to enable these young men and women to read, write and speak the English language correctly. In from three to six months, the majority are able to speak, read and write English with ease and fluency.

COURSES

In all courses, the right to change the time at which classes begin a subject, is reserved. The time required to complete a course is determined, in a measure, by the character and ability of the class, the equivalent being indicated in terms of weeks.

LANGUAGE.

English—

I. Reading. See Special Courses, page 38.

II. Spelling. Daily drills, written and oral. Continuous, students entering the class at any time.

GRAMMAR—BEGINNING.

III. This work is suited to the needs of those who never have studied technical grammar. Special attention is given throughout this course to the structure of the sentence. Classes organized, September, November, January, March and May.

GRAMMAR—INTERMEDIATE.

IV. This course will meet the needs of those preparing for their first third grade certificate. It will include analysis, diagramming, parsing and special requirements for every third grade examination. Classes organized September, January, March and May.

GRAMMAR—ADVANCED.

V. A General Review.—Special attention given to terms and construction concerning which different authors disagree. Treatment of verbals, factitive complement, dative object, adverbial objective, classification of clauses. This course is designed for those candidates who wish to prepare for any one of the higher certificates. Classes organized September, December, March and May.

VI. Orthography.—Elementary sounds and their representation; voice and its production; speech and pronunciation; principal and subordinate elements of words; principles and

practice of spelling. Classes organized September, January, April, July.

VII. Business Correspondence. Social and business forms; materials; model, matter and arrangement of; kinds of letters—application, recommendation, dunning, resignation, miscellaneous; ethics of correspondence; class practice. Classes organized beginning the first Monday in September, and every eight weeks thereafter.

RHETORIC.

1. Narration—Sentence studies, situation, types, retrospective narrative.
2. Description—Paragraph, theme, ornamentation.
3. Exposition—Motive and material, arrangement.
4. (1) Argumentation; (2) Persuasion.

Classes organized September and February.

LITERATURE.

IX. Attention is given to the determining factors of literature. Representative writings of each period are read in classes and are considered with reference to the influence of the social, political, and religious conditions of the time. Extensive collateral readings are assigned, and the following authors are studied as representatives of their respective periods.

1. English—Chaucer, Spenser, Bacon, Shakespeare, Milton, Dryden, Addison, Pope, Goldsmith, Burns, Carlyle, Macaulay, Tennyson.

2. American—Franklin, Irving, Cooper, Bryant, Halleck, Drake, Emerson, Hawthorne, Longfellow, Whittier, Holmes, Poe, Thoreau, Lowell, Parkman.

CLASSICS.

In addition to the regular course in literature the classics required for college entrance are critically studied.

There will also be a course in easy classics especially arranged for those who are unable to take the work for college entrance. Methods of teaching literature will be emphasized.

Classes organized September and February.

German—

I. Beginning German. This course aims to give the student a mastery of the fundamentals of the grammar. Much practice is given to correct pronunciation, together with regular drills in translations and easy conversation. Classes organized September, January, July.

II. Advanced German. Translation of several short German stories. Composition and more advanced conversation. Each course in German equivalent to forty-two weeks. Time of organization arranged with instructor.

III. More advanced German will be given, corresponding to the third and fourth year work, provided there is sufficient demand.

French—

I. Beginning French. This course is devoted mainly to the grammar, together with drills in easy translations.

II. Advanced French. Prose reading, accompanied by writing exercises and drills.

Each course in French equivalent to forty-two weeks. Time of organization arranged with instructor.

Latin—

I. Beginning Latin. Special attention given to pronunciation, forms, easy translations into English and into Latin, fundamental principles of syntax. Equivalent to forty-two weeks. Classes organized in September, January, May, July.

II. Cæsar. Books 1 to 4. Translations into idiomatic English, with study of forms; syntax; geography and Cæsar's military tactics; prose composition; translation into Latin of passages based upon the Cæsar read. Equivalent to forty-two weeks. Time of organization arranged with instructor.

III. Cicero. Orations 1 to 6. Interpretations of the text, with study in forms, syntax, and history of the times; prose composition as in Cæsar. Equivalent to forty-two weeks. Time of organization arranged with instructor.

IV. Vergil's Æneid. Books 1 to 9. Translations, prosody, mythology, ancient geography. Equivalent to forty-two weeks.

Students who have had sufficient preparation may enter Courses II, III, or IV at any time during the year. Courses III and IV are organized when there is a sufficient demand.

Greek—

I. Beginning Greek. Easy translation with special attention to forms, syntax, and writing Greek with the accent. Equivalent to twenty-four weeks. Time of organization arranged with instructor when a sufficient number apply.

II. Anabasis. Books I, II, III. Translations into idiomatic English, with study of forms, syntax, geography, Greek art of war. Prose composition. Also translation into Greek of passages based upon the Anabasis read. Equivalent to forty-two weeks. Time of organization to be arranged with instructor.

III. Homer. Iliad. Translations; prosody; mythology; comparison of Homeric forms with Attic forms. Equivalent to sixteen weeks. Time of organization to be arranged with instructor.

HISTORY AND CIVICS.

History—

I. United States History, Elementary. In this course, the student learns not only the facts of the history of our country, but his attention is called repeatedly to the causes which operated to bring about the mighty changes that have aided in national development. Special attention is given to the topics enumerated in the Bulletin issued by the State Department of Education. Classes organized, September, October, February, May, July.

II. United States History, Advanced. For college preparatory students and teachers. The course presupposes a knowledge of United States history. The student is required to do collateral reading and make written reports of the work. Time, twenty weeks. Classes organized, September, February, July.

III. English History. In addition to the usual topics, special emphasis is laid upon the relations which exist between

English history and our own. Classes organized September, February, July.

IV. General History. In the treatment of this subject, as well as in I and II and III, the laboratory method is pursued in addition to the usual daily recitations from the text. Equivalent to thirty-six weeks. Organized September, January, July.

V. Advanced Courses. By special arrangement with the instructors in the department, work can be secured in Greek, Roman, Church, American Constitutional, or English Constitutional History.

Civics—

I. United States Civil Government. This course aims to give the student more than a mere outline of the facts of the constitution of the United States. An attempt is made to make clear those fundamental principles of national life and well-being in which every citizen, and especially every teacher, should be grounded. Equivalent to sixteen weeks. Classes organized September, January, April, July.

II. State Civil Government. This course is, in a sense, a continuation of and supplemental to Course I. Equivalent to twelve weeks. Organization of classes arranged with instructor.

III. School Law. Arranged especially for teachers. Time of organization arranged with instructor.

IV. Current Events. This course consists of a series of reviews and summaries of important events outlined from current newspaper and magazine articles. Organization arranged with instructor.

MATHEMATICS.

Arithmetic—

I. Elementary Arithmetic. For Beginners. The course involves the fundamental operations to fractions.

II. Intermediate Arithmetic. Fractions, denominate numbers, applications of measurements, percentage, ratio and proportion.

III. Advanced Arithmetic. For advanced students and

teachers who wish a review. Methods of teaching arithmetic receive special attention in this course.

IV. Commercial Arithmetic. Students who take this course should be prepared on Course I. The work is presented with reference to the needs of the students of the commercial department.

V. Mental Arithmetic. Every phase of practical arithmetic is taught. Correct reasoning, mental quickness, and accuracy are the ends sought.

VI. Rapid Calculation. Tabulating and adding. Short processes.

In all classes in arithmetic, time of organization arranged with reference to the needs of the students.

Algebra—

I. Beginning Algebra.

1. Definitions; simple equations; addition; subtraction; multiplication; division. Classes organized September, January, March, May, July.
2. Special rules of multiplication and division; factoring; highest common factor; least common multiple; reduction of fractions. Classes organized September, October, February, May, July.
3. Fractional equations; simultaneous equations; application of principles in the statement of problems; indeterminates; inequalities. Classes organized September, November, December, April, July.

II. Advanced Algebra.

1. Involution and evolution; theory of exponents; radicals; imaginary quantities. Classes organized in September, December, February, July.
2. Quadratics, pure, affected, simultaneous; properties of quadratics. Classes organized September, December, February, March, April, July.
3. Ratio and proportion; variables; series; binomial theorem; logarithms. Classes organized November, February, May, July.

III. College Algebra.

1. Review of principles of Algebra, advanced work in solutions of equations, roots, maxima and minima, and logarithms. Time, 12 weeks. Organized in January.
2. Chance and choice, theory of numbers, limits, determinants, solution of higher equations. Hörner's method. Time, 12 weeks. Class organized in April.

These courses and their subdivisions should be taken in the order here given. Courses I and II are each equivalent to thirty weeks.

Geometry—

I. Plane Geometry. Students of Geometry are expected not only to demonstrate all the theorems involved in a logical presentation of the subject, but in addition are required to solve a large number of original problems bearing upon the different phases of the work. Time, thirty-six weeks. Classes organized September, January, April, July.

II. Solid and Spherical Geometry. Continuation of Course I. It is imperative that students who elect this course be prepared in Course I, or an equivalent. Time, twelve weeks. Classes organized September, January, April, July.

Trigonometry—

I. Plane and Spherical. The course in Trigonometry is arranged to meet the needs of students preparing for college work, especially for those who are planning to enter technical schools. Time, twelve weeks. Classes organized in September, January, April, May.

SCIENCE.

Geography—

I. Elementary Geography. For beginners. The course is for students who wish elementary work in mathematical, physical, commercial and political geography. Special attention is given to the topics enumerated in the Bulletin issued by the State Department of Education. Classes organized in September, October, February, May, July.

II. Advanced Geography. For advanced students and

teachers. The earth as a planet; the earth as a whole; the continents. Special study will be made of Michigan, United States, and our new possessions. Time, twenty weeks. Classes organized in September and February.

III. Physical Geography. For advanced students and teachers. The course includes a study of the origin, development, classification, and distribution of air, water, and land forms. Text-book, laboratory, and field work. Time for organization arranged with instructor.

IV. Commercial Geography. For commercial students and teachers. The course includes a study of the geographical features which tend to control the distribution, production and exchange of important commodities, as plant, animal, mineral and manufactured. Classes organized September, January, March, July.

Physics—

I. Beginning. Properties of matter; mechanics; heat. Daily recitations, accompanied by laboratory work. Equivalent to twenty weeks. Classes organized September, January, and May.

II. Advanced. Electricity; sound; light. Daily recitations, accompanied by laboratory work. Equivalent to twenty weeks. Classes organized September, January, May.

The laboratory work which accompanies Courses I and II is mainly quantitative in character, and is designed to illustrate the fundamental laws of the science. Students who are preparing to teach find the laboratory work invaluable.

Chemistry—

I. General Chemistry. Recitations and laboratory work. The course covers the occurrence, properties, and preparation of common elements and compounds, (including metals, non-metals, acids, bases, oxides and salts), chemical laws, valence, chemical reactions, chemical problems. The class has for its primary object the acquisition of the essential principles, facts and laws of chemistry. Great emphasis is placed on the laboratory exercises, which enable the student to make a thorough study of the more important reactions and methods of preparation. Special stress is laid upon the relations which exist

between the phenomena observed and the principles which underlie the science. Classes organized September, January, May, July.

II. Qualitative Chemical Analysis. Recitations and laboratory work. The subjects of the course are presented in the following order:

1. A mastery of the principles of precipitation, solution and color indications due to physical properties.
2. Drill in successive steps of analysis.
3. The analysis of thirty inorganic "wet" unknowns.
4. The analysis of thirty inorganic "dry" unknowns.
5. Tests for some of the important organic compounds, such as chloroform, alcohol, strychnine, morphine, etc.

The student begins with the analysis of simple substances, and as his proficiency increases he passes to the more complex. The balancing of equations, solution of problems in synthesis, oxidation and reduction, form an important part of the class work. Students pursuing this course must have completed the course in general chemistry, or an equivalent. Classes organized in September, January, and May.

III. Quantitative Chemical Analysis. Lectures and laboratory work. This course is designed to furnish the student with a working knowledge in the use of apparatus and the interpretation of the principles and methods for determining quantitatively the amount of an element or compound in a substance. It aims to aid him particularly in pharmacopœial testing. The work begins with the determination of specific gravities of common substances, acids, etc. This is followed by gravimetric estimations, preparation of standard solutions, volumetric estimations, general determinations and special work in the analysis of water, milk, beer, and other liquors. Students must complete the work in qualitative analysis before being allowed to take this course. Classes organized in September and January.

IV. Organic Chemistry. Lectures and recitations on carbon compounds—their classification, structure, properties and uses.

While much of the field of this branch will be covered, those compounds which are now, or are likely to be of commercial and medicinal value, will receive the greatest attention. The course includes a brief history of the subject, elementary organic analysis, and the study of organic compounds in the regular order, beginning with the hydrocarbons, their substitution products, alcohols, aldehydes, acids, ethers, esters, etc. Classes organized in September and January.

Botany—

I. College Preparatory Course. This course prepares students for entrance to college or university. It is also adapted to those who wish to teach the subject and to students preparing for First Grade and State Certificate examinations. The work consists largely of laboratory exercises, studying the plant in its structures and relationships instead of studying about the plant from text-book entirely. The major part of the course is upon the Phanerogams; about four or six weeks are devoted to the study of the common Cryptogams. Classes organized in September and March. Students not admitted after the first two weeks.

II. Teachers' Review. Prior to each teachers' examination special classes in Botany are organized to review the descriptive work as is necessary for county examination purposes. These courses, while short, from six to ten weeks, give a thorough drill, and students who conscientiously do the work need have no fear of the results of the examination.

Zoology—

The course in Zoology is divided into three parts; principles of animal life, animal descriptions, and laboratory work upon animal types. The work is supplemented by stereopticon and other lectures. The laboratory is well equipped with microscopes and other apparatus. Students are expected to provide themselves with suitable dissecting instruments.

The course is intended to meet requirements for entrance to college or university, also for State Certificate examination and teachers' purposes. Equivalent to thirty-six weeks. Organized in September and March.

Physiology—

I. Elementary. Although styled elementary, this course is adapted to any class of students, from those preparing for teachers' certificate of any grade to those desiring a teaching knowledge. Recitations and demonstrations daily. The microscope and stereopticon are almost daily used to give a better conception of human construction. Classes organized September, January and May, continuing sixteen weeks.

II. Advanced. If there is a demand on the part of at least six advanced students, an advanced course may be arranged for with the instructor. The course is not regularly offered, however.

Geology—

Dynamical, Structural, and Historical Geology. The course is a college preparatory subject and is also arranged for students preparing for the State Teachers' Examinations. A careful study is made of physiographic agents; the kinds and structure of common rocks, about four weeks being devoted to this feature alone; the application of these factors to the formation of the earth's crust together with the appearance and evolution of organic life. A large number of minerals will be considered as to their physical characters and chemical composition. A knowledge of chemistry is desirable. Twenty-four weeks. Classes organized in September and March.

SPECIAL COURSES.

These may be taken separately or in connection with any other course.

Pharmacy—

This course consists of two years of nine months each.

I. Pharmacy. History of pharmacy, pharmacopœias, weights, measures, etc. Lectures, recitations, and demonstrations daily. Sixteen weeks. Classes organized in September.

II. Pharmacognosy and Materia Medica. Botanical source, habitat, constituents, use, dose, etc. Recitations daily, twenty weeks. Classes organized in September and January.

III. Official Pharmacy. A continuation of Course I.

Recitations daily, laboratory work about three hours daily during first half of term. Twenty weeks. Classes organized in January.

V. Prescription Practice. Recitation two hours weekly. Laboratory work, two or three hours weekly. Twenty weeks. Classes organized in January.

VII. Review. Classes organized September, November, January, March.

Latin. This course is pursued in connection with the college preparatory work. English can be substituted. Classes organized in September and January.

For chemistry and other subjects in course, see their respective places in catalog. For complete outline of course, see pages 18 and 19 of catalog.

Send for Pharmacy Catalog.

Expression—

I. Primary Reading. This course is a special feature of the Summer Term, and is a part of the regular Kindergarten Course. It is arranged for those who teach reading in the Primary Grades. Summer Course, six weeks. For Kindergartners, twelve weeks.

II. Intermediate Reading. This course is organized especially for young men and women who have had little opportunity to practice reading or to get acquainted with literature. It is a course for those who find reading difficult—for those who would like to study grammar, but are not prepared for the subject—for those who would like to get a good groundwork in the essentials of English and a working knowledge of the fundamentals of expression—for those who would be glad to lay a firm foundation for successful study—for those who would like an elementary knowledge of public speaking. It aims to lead the student to read and study with greater ease and economy, and at the same time to assist him in gaining at least a general knowledge of the treasures of English poetry and prose.

The course is continuous. Students may begin at any time.

III. Advanced Reading. This course is conducted with

especial reference to the requirements of the State Examinations. The prescribed Classics are read, and all suggested topics thoroughly treated. The outlines of the State Manual are carefully followed. Although arranged primarily for teachers, the course is of great advantage to all who wish to study reading for self-improvement. It gives a general knowledge of the principles of expression, and aims to lead the pupil to study independently with deeper insight and to express himself with increased freedom along the lines of his own individuality. Among the topics treated are the structure of English verse, rhythm, arrangement; figures of speech; subject-matter; description, narration, personation, etc.; the laws of emphasis; inflection; quality of voice; reading in the grades; how to teach reading.

Winter Courses, twelve weeks; Summer Courses, six.

IV. Elocution. First Year.

Emphasis, picturing, tone-colors, quality; voice production, resonance, projection; gesture, attitude, bearing, recitation, exercises in criticism. Time, thirty-six weeks. Class organized in September.

Elocution. Second Year.

Modulation, simplicity, energy; poetic and prose forms; dialogue, monologue, oratory, representative and suggestive gesture, pantomime, recitation for criticism, public recitals. Time, thirty-six weeks. Class organized in September.

V. Shakespeare. Reading the play for the story; for character study; for literary analysis.

Development of personal power by telling the story of the play, an act, or a scene; characterization of personages; description of events; recitation of passages, scenes, etc.

VI. Physical Culture. Order movements—facing, marching, etc.; exercises for equalization of circulation and stimulation of nutritive processes; exercises for relaxation and freedom of movement; exercises for correcting faults of poise and carriage of body; exercises for personal use; exercises with clubs, bells, wands; a special series of exercises in seat-work, comprising brief drills for schools in which only a little time can be given to physical training. Time, twelve weeks. Sum-

mer course, six weeks. Classes organized September, January, April, and July.

VII. Music. 1. Elements of Music. This course is designed for those who have never studied the rudiments of music. It may also be taken as a review class by those who have studied music. Some attention is given to voice culture and tone placing, but the greater part of the time is devoted to note reading and song interpretations. Twelve weeks' course. Classes formed in September, December, February, April.

2. Sight Reading and Voice Culture. For those who have completed elements of music or have had previous study sufficient to enter class. The principles of tone production are developed and careful attention is given to each individual voice. The works of the great composers are studied, and the class is expected to sing for special occasions connected with the school.

VIII. Teachers' Course in Public School Music. All of the practical and theoretical music study required for the successful teaching of this branch in the public schools is given, besides a comprehensive knowledge of music in general.

1. Methods. This class is conducted throughout the two years and is for the purpose of presenting and developing the methods required in all the grades of the public schools.
2. Practice Teaching. The students are required to teach in the practice and criticism classes composed of students from the Normal Department.
3. Chorus Conducting. The students are taught how to organize and conduct choruses and choirs.
4. Sight Reading. Elementary and advanced classes are organized in order that students may become proficient in sight reading and know graded material thoroughly well. This training includes reading in one, two, three, and four parts. This course extends throughout the two years.
5. Ear training. The work of this class includes practice in hearing, singing, and writing melodies and chords; in grading and outlining material; and practice in giving exercises to others.

6. Systems. The leading systems of public school music are thoroughly analyzed and compared.
7. Song interpretation. The grading, selecting, teaching, and interpretation of songs for kindergarten and all grades are included. Individual work is required in teaching and interpreting songs.
8. Children's Voices. This subject is thoroughly studied as it is without doubt one of the most, if not the most important, phase of public school teaching.
9. Vocal Music. A thorough course in vocal instruction is offered. The work includes voice placing, voice development, breath control, enunciation, quality of tone, song interpretation and expression.

Kindergarten—

For outline of courses see page 13. Send for special information.

Drawing—

This course requires one year's work and includes subjects outlined on page 17. State Life Certificates are granted on completion of the work. The aim is to qualify graduates to act as supervisors of drawing in public schools. It is recommended that students taking this course, combine with it, penmanship (one year) or music (2 years).

I. Perspective. This course should precede every other course in drawing, as the work is essential to formulation of principles of perspective and the application of the same in the representation of regular and irregular forms. The course is designed not only to meet the needs of the public school teacher, but is preparatory for work in the polytechnic schools. Classes organized in September and January.

II. Freehand drawing, pencil sketching, charcoal and pen and ink from objects, ornament and casts in line and shadow; still life, and out door sketching; sketching from life, and memory sketching in the more advanced classes.

III. Blackboard Drawing. Especially designed for teachers who wish to use blackboard illustrations as an aid in the teaching of drawing, nature study, geography, history and kindergarten. Classes organized in January and March.

IV. Water Color. Still life, life and outdoor sketching. Students may enter classes at any time during the year.

V. Composition and Design. Study of line, light and dark and color; designs for wall paper, magazine covers, etc.; pictorial composition including landscape and the composition of figures. Classes organized in January.

VI. History of Art. With special reference to painting and sculpture.

VII. Methods in Drawing and Practice Teaching. Actual practice work in presenting lessons in kindergarten grades and high school.

VIII. Industrial work, applicable to public schools. Clay modeling, basket weaving, paper cutting, etc.

IX. Mechanical. The course includes work in form analysis; orthographic and isometric projections; developed surface of pattern construction; mechanical, architectural, and working drawings. The work throughout the course is instrumental and exact.

Students before entering should have some knowledge of the principles of constructive geometry. The course is preparatory for polytechnic schools. Class organized in January.

Penmanship—

I. Penmanship. Material, position, movement, analysis, practice. This course is given with special reference to the demands of the business world. These demands are expressed in two words—rapidity and legibility. Work continuous.

II. Blackboard writing. Position, movement, analysis, practice. This course meets the demands of teachers and supervisors of penmanship. Time of organization arranged with instructor.

Theory and Art of Teaching—

I. Psychology. Modern psychology, with special reference to the development and growth of the child's mind. Time of organization to be arranged with instructor.

II. Pedagogy. History of education, school organization and management; the teaching of language, literature,

science, mathematics, etc., in the light of psychology. Organization to be arranged with instructor.

Bookkeeping—

I. Beginning Bookkeeping. Theory of debit and credit; study of accounts with property, persons, and allowances; proof sheets; closing ledger. Daily class drills. A new class is organized every four weeks.

II. Intermediate Bookkeeping. Exercises in journalizing; tests in making balance sheets and closing the ledger, direct and by journal entries; study of notes, drafts and checks.

III. Advanced Bookkeeping. Single entry work, single compared with double entry; changing to double entry; balance sheets and financial statements; books with special columns; consignments and shipments; partnership openings and settlements; how to find errors and make corrections.

IV. Business Practice. Intercommunication work, student dealing in his own name with firms in other schools in many parts of the United States, work based on actual market prices; also doing business directly with the school offices, which are extensive and completely equipped.

V. Corporation and Voucher Accounting. This includes a general study of corporations, their organization, powers, liabilities and methods of doing business, illustrated by a number of special examples and drill exercises. The course also includes a strong line of typical transactions of a manufacturing concern in which the use of the modern system of voucher accounting is introduced.

VI. Banking. This course includes a study of the theory of banking, organization of national, state, and private banks, and class drill in bank bookkeeping. The student also writes a set illustrating the work of a state bank which grows to be a large national bank. The special course for those who wish to make banking their business includes work in the two banks of the Business Practice Department.

VII. Special advanced sets in Lumber Business and in Wholesale Grocery Business, illustrating the most modern methods in special column work, are offered to students who

wish extra work in accounting or who prefer to substitute one of these sets for the Banking set in connection with the class in Banking (which must be taken).

VIII. Auditing and Advanced Accounting. Class exercises in the analysis of accounts; preparation of auditor's and accountant's reports and balance sheets; time and labor saving devices; continuous inventories; installation of office systems and books for special lines of business; special work in auditing books. Courses I, II, and III (or their equivalent) must be completed before entering upon this work. Classes organized in September and January.

Commercial Law—

In this course no attempt is made to make lawyers of the business students. Recognizing the importance of the subject, however, the school gives regular thorough instruction in contracts, negotiable paper, agency, guaranty, corporations, insurance, interest and usury, liens, tender, payment, and allied topics. Classes organized in October, January, and March.

Typewriting—

All typewriting is done by touch. This enables the student to do more accurate work, to do it more rapidly and more easily than by any other method. Students are placed under the direction of a thoroughly qualified touch operator, who will give individual instruction and correct each pupil's work. The students are required to do absolutely perfect work. In this way the student is trained in a manner which will insure success. The value of rapid and accurate typewriting can not be overestimated. Special stress is put upon this work in connection with Bookkeeping, Shorthand and Telegraphy. The Typewriting Department is equipped with ninety machines, and ample opportunity is given students to become proficient. An extra charge is made for typewriting, whether taken alone or in connection with any other subject.

Shorthand—

I. Amanuensis Course. This course fits the student for all ordinary amanuensis work. The first two months are de-

voted to mastering the principles of shorthand, the second two months to learning how to take dictation and gaining a vocabulary, the third two months to gaining speed and accuracy in taking business dictation, office routine and business ethics. Classes organized in September, October, January, March, May and July.

II. Teachers' Course. This course includes special work in the theory of shorthand, a required speed, a drill in class instruction and a credit in English. Candidates successfully completing the course will be granted a diploma and recommendation. Time of organization arranged with instructor.

The Ferris Institute occupies a unique position in the educational system of the Northwest. It is not a high school; it is more. Its business is not the exploitation of some pet system, or the grinding out annually, by "hook or crook," a certain number of "graduates." The questions of system and graduation are made secondary; the questions of development and the acquisition of power and skill are primary. Every student is given large liberty, both with respect to choice and number of studies. This does not mean that he is left without supervision, but it does mean that the student who is fitted, physically and mentally, to move rapidly with his studies, is given every opportunity to make the very most of his time. The school is remarkable, also, because of the position which it bears to the higher institutions of learning. Today its graduates are admitted, without examination, not only to every college in the state, including the University of Michigan, but also to many of similar standing in other states. This fact, alone, is evidence of the thoroughness of its work.

The College Preparatory Department was organized with reference to two distinct lines of work. First, it was organized to prepare, in the shortest possible time, consistent with thorough work, those candidates who wish to enter the regular literary departments of our colleges and universities. There are in this state scores of schools not on the approved college and university lists, that give thorough instruction, as far as their courses provide. To graduates of such schools, the Institute offers superior advantages, its courses being so arranged that work well done in other schools will not need to be repeated. The Ferris Institute, with its special facilities, can accomplish more, in a given time, and do it thoroughly, than any other preparatory school in the state. Second, the department was organized to meet the demands of that large class of students who are striving to satisfy the ever-increasing demands of our technical and professional schools—Law, Dentistry, Medicine, Engineering, etc. The requirements are identical with those recommended by the University of Michigan.

TUITION RATES

PAYABLE IN ADVANCE.

ENGLISH. (Including Third Grade Certificate Subjects.)	One week	\$ 1.25
	Twelve weeks	12.00
	Twenty-four weeks.....	21.60
	Thirty-six weeks.....	30.00
	Forty-two weeks.....	35.00
	Forty-eight weeks.....	37.80
	Seventy-two weeks	54.00
	One hundred weeks.....	70.00
Normal, College Preparatory, Kindergarten, Drawing and Music, Professional Penmanship.	One week	\$ 1.50
	Twelve weeks	15.00
	Twenty-four weeks.....	27.00
	Thirty-six weeks.....	37.50
	Forty-two weeks.....	43.75
	Seventy-two weeks.....	67.50
	One hundred weeks.....	80.00
Shorthand, Telegraphy, Business, Civil Service.	One week	\$ 2.50
	Twelve weeks	25.00
	Twenty-four weeks.....	40.00
	Thirty-six weeks.....	50.00
	Forty-two weeks	55.00
	Forty-eight weeks.....	60.00
Typewriting.	Two intervals a day, 12 wks.	\$ 3.00
	Four intervals a day, 12 wks.	4.50
Pharmacy.	One week	\$ 2.00
	Twelve weeks	20.00
	Twenty-four weeks	35.00
	Thirty-six weeks	45.00
Individual Instruction in Vocal or Instrumental Music.	Piano, one lesson, 40 minutes	\$0.75
	Piano, 10 lessons, 40 minutes	6.75
	Piano, 20 lessons, 40 minutes	12.00
	Voice, one lesson, 30 minutes	.75
	Voice, 10 lessons, 30 minutes	6.75
	Voice, 20 lessons, 30 minutes	12.00
	Piano and Voice students can, without charge, elect one class a day in normal or college prepara- tory subjects not requiring private instruction nor laboratory.	

LIVING EXPENSES.

Notwithstanding the effort that many schools have made to establish cheap boarding houses, students can live in Big Rapids for as little money as in any other city in the United States. The school has no boarding houses. We place our students in first-class private families. Parents are thus given an additional security as regards the supervision that will be exercised over their sons and daughters. We use all possible diligence in looking after the habits and morals of every one entrusted to our care. We consider character the first essential to success, and parents and guardians who are anxious to place young people in an institution that is determining to a great extent their future success, will, we are confident, give this fact due consideration.

Good board and room can be obtained in private families with room-mate for \$2.75 to \$3.00 per week. Club board and room with room-mate, \$2.50 to \$2.75 per week. Students can rent rooms and board themselves at very low rates. It should be remembered that students can live as cheaply in Big Rapids as in any other school town in the United States. If convenient, applicants should write the President concerning board, rooms, etc., etc., at least a week before joining the school.

PARENTS AND GUARDIANS.

The problem of selecting a school for a son, daughter, or friend, is by no means easy. Its solution involves the welfare of a human life. Every reader of this catalog will concede that development of character is the chief aim of education. The highest aim of the Ferris Institute is the work of character-building. The President of the school studies every student, advises every student, looks after the welfare of every student, and when he finds that he is powerless to do him good, he informs the parent or guardian. This makes the Ferris Institute a safe place for the young person who is to receive a training for usefulness. When parents ask for special supervision, the request is granted. The school that does not make a young man or woman better physically, intellectually, and morally, fails to fulfill its chief mission.

Backward Young Men and Young Women.

In almost every village, in almost every rural district, there are young men and young women who are devoting their time to manual labor, who, through economy, have laid by a little money. They look about them and observe the advantages of an education. In earlier years they failed to use their opportunities, or, what is more frequent, they had no opportunities for obtaining an education. They would now enter some school and begin at the bottom and work up if they were confident such a school could be found—a school where they would not be humiliated, where they would not be embarrassed by being forced to recite with more advanced students. No school in the United States has done more for this backward class of young men and women than has the Ferris Institute. In fact, every possible effort has been made to serve this class of students.

No Examination for Admission.

In order to make admission to the Ferris Institute easy, no entrance examinations are required. This does not imply that this institution is to be held responsible for results in those instances where a student disregards the condition of successful work. For example, a candidate who is poor in English wishes to study shorthand, bookkeeping, telegraphy. The President of the Ferris Institute tells such a candidate that success is impossible without the necessary preparation. This school guarantees satisfactory results to every student who is in full sympathy with the ideas expressed in this catalog.

Diplomas.

Diplomas are granted in the departments of College Preparatory, Normal, Kindergarten, Elocution, Pharmacy, Business, Shorthand, Music, Drawing, Telegraphy, and Penmanship.

TEXT BOOKS (Partial List).

Mental Arithmetic.....	Kirk and Sabin
Commercial Arithmetic	Goodyear
Bookkeeping	Ellis
Bookkeeping, Actual Business.....	Goodyear-Marshall
Commercial Law	Hamilton
English Grammar.....	Rigdon, Steps in English
Physiology	Conn and Budington

United States Civil Government.....	James & Sanford
State Civil Government.....	Pattengill
United States History.....	Thomas, McLaughlin
Speller	Penniman, Mayne
Orthography	Pattengill
Geography, Political	Dodge
Geography, Physical	Davis
Geography, Commercial	Adams
Physics	Adams
Algebra	Wells
College Algebra	Wentworth
Geometry	Wentworth
Trigonometry	Wentworth
Botany	Bergen
Chemistry	Newell
Organic Chemistry.....	Perkin and Kipping
Qualitative Chemistry.....	Prescott & Johnson
Quantitative Chemistry.....	Clowes and Coleman
Zoology	Jordan & Kellogg
Geology	Brigham
English Literature	Long
American Literature	Painter
Rhetoric	Thomas & Howe
Psychology	Thorndike
General History.....	Myers
Typewriting Manual	Felch
English History	Andrews
History of Education.....	Painter
Shorthand (Graham System).....	Barnes
Shorthand (Gregg System).....	Gregg
Latin Lessons	Bennett
Caesar	Kelsey
Cicero	Kelsey
Latin Grammar	Bennett
Greek Lessons.....	Boise & Pattengill
Anabasis	Kelsey
Homer	Keep
Greek Grammar.....	Hadley & Allen
Vocal Music.....	Natural Series
Pharmacy.....	Remington, U. S. Pharmacopoeia
Prescriptions	Ruddiman
French	Chardenal
German	Thomas
Shorthand Correspondence	Altmeier
Materia Medica	Wilcox

Literary Advantages of the Ferris Institute.

For several years there has been a large literary society, offering all the advantages peculiar to such an organization. During the larger part of the year two or more of the teachers of the school have supervision over as many extemporaneous classes. These classes are limited in membership, and require that at every meeting every member speak without notes. There is also a students' prayer meeting, non-denominational,

every Wednesday evening. The Y. M. C. A., Y. W. C. A., and the Catholic Club hold regular meetings. As the school increases in numbers, as its work becomes more complex, further advantages will be offered along the line of enabling young people to grow intellectually, morally, and religiously.

The Ferris Institute "What School?"

This Journal is issued quarterly by the Ferris Institute. Its object is to keep old students in touch with the work and spirit of the school, and to make announcements concerning courses of study and openings of new terms.

All inquiries concerning "What School" should be sent to the Ferris Institute. It is sent free of charge to all who wish it.

The Ferris Co-operative Association.

In 1891 there was founded in the school an organization known as the Ferris Co-operative Association. The organization was the work of some of the more earnest students. It grew out of a desire on their part to establish in connection with the school something that would correspond, in a measure at least, to the alumni associations of high schools and colleges. The object, as stated in its constitution, was "to weave more closely the bonds of fellowship and love, so natural in pupils of the same school, and to raise its members to a higher plane of usefulness." A statement of attendance, signed by the President of the school, together with the recommendation of three members, and an initiation fee of \$1.00, constitutes the applicant a member of the association.

The meetings of the association are semi-annual, and are held in January and July at the Ferris Institute. At these gatherings, students, ex-students, and their friends lay aside for a day or two the cares of study or business, and direct their attention wholly to those things that make for intellectual and social enjoyment. The programs are prepared with great care, and touch upon the various phases of student life. At each meeting a lecture or concert is given, for which the highest talent is secured. At the close occurs what corresponds to the usual alumni banquet, to which in the case of the F. C. A., however, all members of the school together with their friends are invited.

During the twenty years of its existence, the Ferris Co-operative Association has grown steadily, both in numbers and in the excellence of its programs. The F. C. A. has become one of the established features of the school. It is fulfilling its mission nobly. Its past has been a series of successes; its future is bright with promises of continued helpfulness and inspiration.

Summer Schools.

Schools differ as much as banks and other institutions. At first thought the reader might innocently suppose that it makes little difference where he secures his summer review. It is on this basis that hundreds and thousands attend summer schools where there are no special facilities for work. We do not wish to discourage any of these enterprises. They frequently accommodate young people who could not go elsewhere for training. There are many students, however, who are misled through economy, who are misled through a false idea that summer normals are all alike, and exercise no choice in the matter of determining what school to attend. Twenty-seven years ought to enable any school to achieve something, ought to enable any school to accumulate an experience of great value to its students. At the Ferris Institute are to be found fine facilities for work, an excellent faculty, and, best of all, the spirit of progress in education. Every teacher who comes under the influence of this school for even six weeks, feels that he has been benefited for all time. Make your decision with reference to the benefit you can get at a school. Do not let a few miles of travel hinder you from coming. The influence of a school is usually lasting. It either inspires or discourages. It ought always to inspire; it ought always to make the possessor happier; it ought always to make the learner more useful. In March of each year a special summer catalog is published. Send for it.

A Word to Former Students.

In twenty-seven years the Ferris Institute has enrolled over 30,000 students. Owing to changes which are inevitable, we are unable to reach directly through the mails all of this number. This we keenly regret. We therefore suggest that every former student who chances to see this paragraph, send

us at least a word once a year as to his whereabouts and success. Every faithful student who has attended the Ferris Institute has in some measure contributed to its success. We wish to keep in touch with every former student.

Ask Questions.

It is impossible to make a catalog so comprehensive that every reader will obtain just the information he desires. To earnest inquirers we cheerfully write letters answering all questions relating to the work of the Ferris Institute. Questions should be specific, not general.

COMMENCEMENT.

The Ferris Institute holds commencement exercises during the last week in June. Diplomas are awarded to the graduates of the different departments. Some noted speaker delivers an address and the various classes render programs. Former students and their friends are especially invited to these exercises. See appendix.

THE FERRIS INSTITUTE NOT IN COMPETITION WITH CHEAP SCHOOLS

The Ferris Institute stands for thorough work. It offers no superficial courses. It makes no attempt to do the impossible in a few weeks or a few months. The Ferris Institute commands the respect and admiration of America's foremost educators. The Ferris Institute does high-grade work, renders high-grade service, and demands for the same reasonable compensation. The universities and colleges of the Northwest pronounce the graduates of the Ferris Institute the very best. These students never fail. Railroad, lumber, insurance and all companies engaged in great enterprises seek "first, last and all the time" graduates of the Ferris Institute. That is why Ferris Institute graduates always get the big prizes. The cheap school turns out cheap men and women. The Ferris Institute cannot afford to do this. The best school is none too good for men and women of moderate means. It always pays to patronize the best.

Used in July-August Session, 1910.

- 7:00—U. S. History, Third Grade; Physical Geography; Typewriting; Latin, Beginning.
- 7:40—Morning Exercises.
- 8:10—Methods; Pharmacy, Beginning; Algebra, Quadratics; Commercial Geography; English Literature; Blackboard Drawing; Shorthand, Gregg, Advanced; Typewriting; Shorthand, Pitman, Advanced; Penmanship; Primary Reading.
- 8:52—Geometry, Book IV; Pharmacy, Official; Physics, Solids and Fluids; English, Book II; Physiology, Review; U. S. History, Review; Primary Language; Elementary Vocal Music; Shorthand, May Class, Gregg; Typewriting; Telegraphy; Bookkeeping, Beginning; Penmanship; Kindergarten; Caesar, Book I.
- 9:35—Arithmetic, Fractions; Geometry, Review; English, Book II; Arithmetic; Botany; Algebra, Factoring; Classics; Shorthand, May Class, Pitman; Telegraphy; Bookkeeping, Advanced; Penmanship; Physical Culture; Kindergarten; German, Advanced.
- 10:17—Geometry, Book III; Chemistry, Advanced; Physics, Heat and Electricity; State Civil Government; English, Book II; Geology, Historical; Geography, Review; Pencil Sketching, Advanced; Typewriting; Shorthand, March Class, Pitman; Telegraphy, Train Orders; Commercial Law; Reading, August Examination; Kindergarten; German, Beginning.
- 11:00—Geometry, Solid; Prescriptions; Physics, Sound and Light; Arithmetic, Percentage; Spelling, Elementary; Botany; School Law; American Literature; Blackboard Drawing; Shorthand Correspondence; Typewriting; Shorthand Bookkeeping; Telegraphy; Arithmetic, Percentage; Commercial Arithmetic; Caesar, Beginning, Book IV.
- 1:10—Materia Medica; Trigonometry; Physiology, Review; Algebra, Quadratics; U. S. History, Review; Grammar; Water-color; Shorthand, Advanced, Gregg; Typewriting; Shorthand, March Class, Pitman; Business Practice; Bookkeeping, Intermediate; Penmanship, Advanced; Orthography; Latin, Advanced.
- 2:00—College Algebra; Laboratory; Ratio and Proportion; U. S. Civil Government; Reading, Elementary; Algebra, Factoring; Ancient History; Rhetoric; Methods; Business Correspondence; Shorthand, English; Shorthand, Advanced, Pitman; Telegraphy; Individual Help in Bookkeeping; German, 2d year, Beginning.
- 2:42—Zoology; Laboratory; Algebra, Fractional Equations; Botany; English History; Medieval History; Typewriting; Telegraphy; Physical Culture, Penmanship.
- 3:25—Mental Arithmetic; Chemistry, Beginning; Laboratory; Geography; Modern History; Grammar; Advanced Vocal Music; Pencil Sketching; Shorthand, May Class, Gregg; Typewriting; Shorthand, May Class, Pitman; Telegraphy; Physical Culture, chorus.
- 4:07—Spelling; Current Events; Telegraphy; Blackboard Writing; Reading, August Examination; Kindergarten Songs, Agriculture.
- 4:50—Typewriting; Telegraphy; Rapid Addition.

September 1, 1909, to May 22, 1911

DEPARTMENTS

COLLEGE PREPARATORY

Allen, Alfred G.	Caughell, Willo	Fitzpatrick, Earl E.
Allen, U. Preston	Chapman, Chas. W.	Flower, Raymond P.
Almas, Ernest N.	Chilton, Mary V.	Flugstad, Melvin J.
Ames, Oliver J.	Church, Earl L.	Ford, B. J.
Anderson, Ernest S.	Clapp, Harry L.	Foster, Corlis H.
Anderson, Hugh E.	Clark, Harry B.	Frederick, Donna G.
Anderson, Phebe A.	Collins, Edith A.	Freeman, Verne A.
Appleton, Irvine	Cook, Martin, Jr.	Frey, Ernest J.
Archer, Kenneth L.	Connine, Harry J.	Fricke, Fred J. H.
Atwater, Brodie T.	Cool, Hazel D.	Frisbey, Chas. E.
Aufrance, Chas. R.	Coons, Austin L.	Frost, Geo. B.
	Corrigan, Frank K.	Fuller, Floyd
Baer, Cornelius	Cowman, J. L.	Fuller, Glenwood C.
Barrett, Frank N.	Crone, Leonard	
Barth, Clara E.	Cullis, Cass M.	Gaffney, Mildred C.
Beadle, Wesley B.	Cunningham, Peter J.	Gelhaar, Carl J.
Beardsley, J. Albert	Currigan, Don R.	Giffels, Lewis J.
Becker, Henry Ward	Curtis, Frank E.	Giles, Guy A.
Beckett, Harold	Curtis, Willard M.	Gillette, Will R.
Beers, Lynn R.		Gleason, Chas. E.
Bellen, Helen M.	Dakin, Howard L.	Glidden, Herbert L.
Bettes, Audrey L.	Dawson, Fred A.	Goetz, M. Anthony
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Bilodeau, Chas. W.	Corbett, Ethel	Gallagher, Mary J.
Biinger, Henry	Corbett, John	Gerke, Fred
Blacken, John B.	Corbett, Oliver S.	Gerken, John P.
Blackledge, Frank	Corey, Dean P.	Gilbert, Clark V.
Blomquist, Henry	Cousineau, Noah P.	Gilchrist, Geo. L.
Bos, Gabriel D.	Croninger, Mrs. E. J.	Gill, Roy E.
Boyer, Gladys	Culliton, Albert J.	Gilmore, Freeman C.
Brack, Edward P.	Cummins, Alva W.	Golder, Mable A.
Brandel, Jesse U.	Cunningham, Wm.	Gratz, John, Jr.
Breen, Waldo J.	Curran, Anna	Groli, Frank
Breitenwischer, M.	Curry, Johnston	Grunst, Emma A.
Bresnahan, Marie		
Broomfield, Grace M.	Davis, A. Elmo	Hagerman, Arthur K.
Brown, Bertha A.	Dennis, Chas. M.	Haley, Michael J.
Brown, Chester W.	DeVries, Lavina M.	Hamalainen, Aaro
Brower, Myrtle J.	DeWitt, Lula A.	Hansen, Carl L.
Brower, Wm. A.	Doerr, Jas. E.	Hansen, John R.
Brunett, Felice J.		Hare, Clifford W.
Bruning, Theo. C.	Eldred, Harlow R.	Hare, Harold E.
Bryers, Fred G.	Emerson, Everett N.	Harris, Stella
Buck, Lawrence K.	Ericks, Oscar E.	Harris, Veva I.
Bullock, Eddy S.	Erickson, David	Haslem, Jos. F.

Heck, Geo. O.
 Helgemo, Alex.
 Hennard, Howard S.
 Herweyer, Jacob G.
 Hewitt, Harry V.
 Hidahl, Esther
 Hillis, J. Wm., Jr.
 Hodges, Peter
 Hodges, Wm. J.
 Hollming, Geo.
 Holmes, Harry
 Holmquist, Frank
 Holmquist, John
 Holt, Jos. A.
 Hughston, Star
 Huisman, John
 Humeston, Ralph M.
 Hunter, Blair B.
 Huston, Harvey T.
 Huyck, Edgar T.

 Iler, H. Forrest

 Jensen, Martin
 Jones, Earl D.
 Joyce, Leo A.

 Kadwell, August D.
 Kantola, Ernest J.
 Kanpe, Otto W.
 Kelsey, Jas. C.
 Kennedy, Myron S.
 Kielsen, Fred O.
 Kilpatrick, Vernon
 Klatt, Wm. H.
 Knopf, Lena A.
 Knopf, Selma A.
 Koglund, Nels S.
 Kraning, Gusta

 Labree, Leo L.
 Ladner, Tracy
 Lake, Richard
 Lalonde, Fabian A.
 Langworthy, Dell
 Lawler, John J.
 Lawler, Jas. F.
 Latham, Fred A.
 LeDuke, Wm.
 Leutzinger, Geo.
 Leutzinger, Theo. E.
 Libbey, Delbert
 Littler, Carlton A.
 Luibrandt, Frank
 Lux, Mabell

 McCafferty, Earl
 McCaren, Frank

 McCutcheon, Kenneth
 McDevett, Peter J.
 McDonald, Earl D.
 McDonald, Neil
 McFarlan, Hazel D.
 McGregor, Stuart D.
 McKenna, Geo.
 McKeon, Emanuel
 McNair, Wm. E.
 McNamara, Howard
 Mahl, Fred
 Makinen, John J., Jr.
 Malone, May
 Maltritz, Chas. C.
 Maney, Floyd R.
 Marsh, Ben B.
 Martin, Irving B.
 Martin, Richard J.
 Mehl, John C.
 Mehl, Emma N.
 Meyer, Louis G.
 Merrillat, Edward A.
 Mielke, Otto F.
 Miller, Peter
 Miller, Tracy I.
 Monaghan, Frank E.
 Moore, Lyla
 Moorehead, R. E.
 Morsman, Dixie
 Moulton, Clara S.
 Moyer, Hervin J.
 Moyer, Lloyd K.
 Moyer, Maylon A.
 Murphy, Henry J.
 Murphy, Clarence A.

 Nash, John E.
 Nass, Marie R.
 Nelson, Georgina S.
 Ness, Elmer E.
 Nichols, Ernest O.
 Nielsen, Vichtor H.
 Norrman, Alvar G.
 Norstrom, Julius

 Oberley, Ray A.
 Olsen, Oscar L.
 Olsen, Wm. L.
 O'Morrow, Tracy P.
 Otto, Geo. H.

 Palmer, Florence V.
 Palmer, Floyd H.
 Parker, Harrison A.
 Parker, Iva G.
 Partanen, Henry
 Pattison, Ira L.
 Partridge, Clyde S.

 Payton, Minnie E.
 Pecard, Adolph J.
 Pederson, Andrew M.
 Pellerin, Will A.
 Pelletier, Thos. J.
 Peterson, Otto E.
 Peterson, Paul G.
 Prentice, Archie J.
 Premier, Ethelyn D.
 Proctor, George
 Purtill, Edward J.

 Quillin, Elmer T.

 Randall, J. Leonard
 Rawlings, Jas. H.
 Redding, Seth E.
 Reed, Coral M.
 Reed, Enos
 Reed, Orlo G.
 Retkowski, Lena M.
 Reynolds, Wm.
 Richardson, Geo.
 Richardson, Leo P.
 Robinson, Jennie L.
 Robinson, Will A.
 Roe, Junius
 Rood, Clarence C.
 Root, Hazel
 Ross, Kenneth C.
 Rossiter, Frank J.
 Roth, Ernest
 Rottier, Jos.
 Rourke, Jas. A.
 Rudlaff, Emma
 Ruprecht, Louis C.
 Ryan, Austin

 Sandow, Frank
 Sands, Floyd R.
 Schaeede, Clarence E.
 Schafer, Edward
 Schram, Ray L.
 Sellke, Fred A.
 Sherrod, Dana P.
 Sinisalo, Elias
 Skafte, Peter
 Skellenger, Reginald
 Skoglund, Nels G.
 State, Ernest
 Smith, Frank P.
 Soutiea, Jos. N.
 Squier, John M.
 Stanley, Orr G.
 Stern, Leon G.
 Stocking, Hazel A.
 Stocking, Minnie H.
 Storms, Grace P.
 Stowell, Prentice W.

Straight, Ben C.	Torrence, Chester B.	Weidemann, Andrew
Stuart, Jas. I.	Toukonen, Sefamias	Weir, A. J.
Swanson, Amil	Townsend, Mrs. H.	Weldon, Jos. L.
Sweeney, Genevieve	Townsend, Wm. K.	Wellman, Anna
Swinson, W. J. Frank	Tredeau, Chas. J.	West, Floyd D.
		Westfall, Harper
Taft, Smith E.	Vanderveer, C. E.	Wheatlake, Franklin
Taggart, Jas.		Wheeler, Leonard G.
Tasker, Vernon J.		Whitaker, Sylva A.
Tate, Nathan A.	Wadley, Geo.	White, John E., Jr.
Taylor, Forest E.	Wager, Fred E.	Wingeier, Alex.
Thiel, Clarence E.	Walden, Hazel	Wittenbach, Alfred
Thiel, Don M.	Walker, Wm.	Wixson, Arlo J.
Thompson, Walter	Waltz, John A.	Wrisley, Loyd W.
Thoreson, Ole	Warner, Horace O.	
Tomaszewski, John	Watson, Leona M.	Zeno, Ben
Tonkin, John	Webster, Otis E.	Zeno, Elizabeth C.

COMMERCIAL

Acker, Grover C.	Bates, Geo. A.	Bretz, Gertrude A.
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Adamson, L. Dean	Batterson, W. Irwin*	Brooks, Geo. H.
Adgate, Glen	Bawden, Sidney J.	Brouwer, Benjamin
Ainsworth, Albert H.	Bay, Harry	Brunett, Felice
Aldrich, Clarence	Beahan, Martin F.	Bryant, Mabel M.
Alexander, Glenn J.	Beardsley, J. Albert	Buck, Laurence K.
Alexander, Mac	Benge, Lea	Buchholz, Philip
Althouse, Elma M.	Bennett, Eber J.	Bugai, Joseph
Anderson, Andrew M.	Benton, Fred A.	Burhans, Clyde L.
Anderson, Bertha L.	Bergman, John	Burleigh, Sadie J.
Anderson, Clarence J.	Berti, Titus	Burns, Edward T.
Anderson Geo. W.	Bills, Hazel	Burns, Gail
Anderson, Henry C.	Bilodeau, Chas.	Burton, Beulah
Anderson, Herman	Bingham, Fred E.	Butler, Edwin E.
Anderson, John	Binney, Will	Bye, Baroline M.
Anderson, Leslie	Birdsall, Guy E.	
Anderson, Elof	Bishop, Noah J.	Cain, R. Jetta
Anderson, Selma E.	Bissell, Clement W.	Carbonneau, Peter A.
Apple, Darrell D.	Blacken, John B.	Carlson, Harry A.
Armstrong, Irving J.	Bladzick, Michael J.	Carlson, Helmer A.
Arndt, Britton H.	Blake, Ina B.	Carlson, Carl J.
Aronson, Earl H.	Blanchard, Glenn	Carmody, John D.
Ash r, Cash E.	Blomquist, Harry	Carmody, Nina
Atchison, William W.	Bole, Everett A.	Carpenter, Wilmot J.
Atkinson, J. Clare	Bonkoski, Martha	Carr, Earl L.
Avery, Harold S.	Bonnin, Louis C.	Carter, John H.
	Bouman, Nicholas	Case, Athol A.
Bader, Leo J.	Bowman, Clyde L.	Castle, Coyne D.
Baker, Geo. R.	Bosley, Mary	Chase, Blanche
Baker, Sheldon Y.	Bracker, Adolph C.	Cherney, Frank J.
Baker, Walter J.	Bradley, Frank	Chilson, Clarence
Bale, Frank W.	Brandon, John F.	Chisholm, Christy
Banwell, Chas.	Brault, Frank H.	Christensen, Einar
Barnes, Chas. C.	Brayback, Fred	Christensen, Fred
Barrenger, Fay	Bredahl, Julius A.	Christian, Earle
Barry, Maurice D.	Breitenwischer, M. F.	Churchill, Edward A.
Barley, Gordon C.	Bressmer, Ralph W.	Clapp, Everett
Barton, James H.		

* Deceased.

Claus, William R.	DeYoung, Abbie	Fritz, Roy F.
Clausen, Carl M.	Dickerson, Alex.	Fuller, Stephen L.
Clevenger, Dayton M.	Doerr, James E.	Furney, Lewis J.
Clough, Chas. D.	Donjou, Joseph R.	Gallant, Harriet
Cody, Arthur S.	Donahue, Elizabeth	Gallagher, Mary
Cole, Claud	Draper, Roy J.	Gardner, Charlotte E.
Cole, Harry J.	Drescher, Bert	Garlock, Clifford C.
Colburn, Stella M.	Dromenske, Anna	Garnett, Margaret
Coleman, R. G.	Dromenske, Haidee	Garfat, Barbara
Collier, William M.	Duame, Phoebe A.	Gaudard, Wm. N.
Collins, Geo.	Duffey, John	Gauthier, Henry
Conklin, Ray C.	Duffey, Leo P.	Geller, Bernard N.
Conley, Forest V.	Duffield, William E.	Gerke, Wm. G.
Conner, Geo. E.	Earle, Hubert W.	Gifford, Leola
Conner, Arthur	Eaver, Alan R.	Gill, F. Hazel
Connor, Chas. E.	Eckstein, Norman	Gilmore, Arthur S.
Connine, Edward	Egeler, Edward C.	Gilpin, Ralph L.
Conrad, Edgar	Eggert, Frank H.	Girven, Karl A.
Conradson, Max	Eicher, Sollie	Goetz, Minrad A.
Cook, Andrew M.	Eldridge, Dow S.	Gorham, Marshall K.
Cope, Charlie	Eldridge, Seymour M.	Gorrie, Agnes C.
Cosens, Ralph R.	Elliott, Adelle M.	Goudberg, Mary M.
Courville, Anna	Elton, Mima J.	Goudreau, Napoleon
Cousineau, Noah P.	Emig, J. W.	Grace, Edward
Cowling, Wade	Ericks, Oscar E.	Graham, Geo. T.
Cox, Standish T.	Erickson, Yalmer	Graham, Leland
Crowell, Maude E.	Estes, Irene C.	Graham, Stella
Crone, Leonard	Evans, Marion	Granroth, Ed. A.
Crossley, Ernest C.	Faircloth, Ernest E.	Grantz, Ruben F.
Culp, Harley E.	Fales, Hugo W.	Graybiel, Gordon
Curran, Anna	Farnsworth, Geo.	Green, Douglas C.
Curry, Johnston S.	Farwell, Carl L.	Green, Frank
Curtis, Jess M.	Fear, Ray	Green, Richard D.
Curtis, Frank E.	Feldman, Sam	Greene, Jas. A.
Custer, Henry	Ferguson, Howard E.	Griffeth, L. Leroy
Dadson, Herbert W.	Ferry, Chas. O.	Griffin, W. Gail
Daly, Thurman A.	Filarski, Jos. C.	Grills, Jas. W.
Dann, Earl	Finan, Harold	Griswold, Mae L.
Darby, Thomas A.	Fisher, Mary	Gustafson, Edith
Darling, Earl G.	Fitzgerald, Oscar E.	Gustafson, Julia E.
Davis, Clarence	Fitzpatrick, Wm. J.	Hager, Elmer
Davis, Elmer L.	Fitzsimmons, Wm. J.	Hakenson, Herman J.
Davis, Mrs. Etha C.	Flynn, Henry P.	Hall, Fred E.
Dean, Max M.	Fontanna, Stanley G.	Hall, Horace M.
Dearing, Milo G.	Ford, Amos E.	Haley, Daniel M.
Dearing, Norman	Foster, Chas. I.	Haley, Michael J.
DeCamp, Ford M.	Fox, Vernon L.	Hammer, Luckey A.
Decker, Grant C.	Francis, J. Russell	Hammond, Ray L.
Deehr, Clara	Frarey, Mrs. M. A.	Hansen, Carl L.
Delaney, John	Freeman, Frank T.	Hansen, Geo. O.
Dell, S. Burton	Freeman, Ruth E.	Hansen, Hans E.
Dennis, Chas. M.	Freund, Herbert C.	Hansen, Mayme M.
Dennis, Harry E.	Frey, Edward S.	Hansen, Minnie S.
Densmore, Merle R.	Friday, Augustus J.	Hansen, Tony
DeRuiter, Mrs. Dora	Fribley, Harry D.	Hansen, Will
Dervoe, Werner N.	Friend, Chas. C.	Hanson, Chas. F.
Devereaux, Lee		

Hardman, Florence M.	Johnson, Walter E.	Logan, Delia H.
Hargrave, Lucile	Johnston, Ray G.	Longbrake, Russell
Harper, Margaret Z.	Jones, Edward J.	Loveland, Wallace S.
Harris, Cleophus G.	Jones, Omer C.	Lowe, Erma B.
Hartwell, Tylee D.	Jones, J. Paul	Lomason, D. Ferry
Hartwig, Albert A.	Joyce, Leo A.	Lucas, Harriet E.
Hartzler, Edwin E.	Jozwiak, Sylvester	Luce, Dudley H.
Haskell, Lewis D.		Lund, Emma
Hastings, Chas. H.	Kammerer, Geo. C.	Lundborg, Alvin S.
Hawley, Royal I.	Kane, Arthur M.	Lustig, Albert A.
Hay, Howard B.	Kantola, Ernest I.	Luxford, Myrtle W.
Hayes, Chas.	Kearney, Gertrude E.	Lyle, Burton
Hayter, Clara E.	Keef, Chas. W.	
Hazard, Chas. A.	Kelly, John C.	MacKenzie, Margaret
Heinold, Lena	Kelly, Wm. M.	McCafferty, Earl C.
Henning, Belle	Kelley, Daniel A.	McCann, Harold G.
Henry, Wallace F.	Kelsey, Jas. C.	McCaren, Frank D.
Heller, Clifton	Kemp, Richard J.	McCaughey, Gertrude M.
Herrington, Fern N.	Kempf, Gilbert	McClintock, Anna I.
Herron, Linton	Kenaga, Harold E.	McCloskey, Wilfred J.
Herron, C. Ray	Kennedy, Thos. A.	McClurg, Frank
Hild, Russell W.	Kent, Leo J.	McConnell, Katherine
Hill, Clarence A.	Kingston, Fred B.	McConnell, Walker
Hill, Luella M.	Kinyon, Ruby L.	McCrea, Duncan C.
Hill, Wm. H.	Kloet, Leonard	McCrea, Mary I.
Hood, Norman F.	Knapp, H. Raymond	McCully, John W.
Hockstra, John J.	Kopnick, Martin A.	McDevitt, Peter J.
Hoekwater, John	Kreidler, Chas.	McDonald, Floyd
Hoey, Harry B.	Krahn, Herman F.	McDonald, Earl D.
Hopkinson, Luther W.	Kuhn, Royal D.	McDonald, Lee
Hornick, Elizabeth		McDonald, Jas. H.
Hough, Frank A.	LaBar, Chancey F.	McDougall, Roy M.
Houghton, Herbert	LaBar, Fannie	McGillis, Roderick L.
Hulett, John H.	LaBre, Lillian C.	McGregor, Glenn H.
Howley, Peter B.	Labre, Rayne	McGuire, Fred O.
	Ladner, Tracy	McHattie, Anna Belle
Imbertson, John B.	Lake, Richard W.	McKenna, Matthew G.
Inglis, Mirriam	Lalonde, Fabian J.	McLachlan, Elmer
Ingersoll, James	Lambert, Harriet L.	McLeod, John E.
Itsell, Henry J.	Lamotte, Edward E.	McMahon, Thomas C.
Iverson, John	Landsberg, Bennie	McMullen, Catherine
	Lange, Frances	McMullen, John
Jacobs, Colonel	Langlois, Alex.	McNair, Wm. E.
Jacobus, Anna C.	Larsen, Fred W.	McNamara, Howard
Janeschek, Edward C.	Larson, K. Roy	McNulty, P. Leo
Jarvis, Alice	LeDuke, Wm.	McTiver, Bernard I.
Jenkins, Roy R.	Lehman, Rose M.	Mack, Geo.
Jenner, Carlton T.	Leroy, Sterling	Magnant, Geo. D.
Jensen, Henry C.	Leslie, Myrta	Mahon, Albert
Jewson, F. Frank	Leutzinger, Geo.	Makinen, John J.
Jex, Charles L.	Levitan, Wm.	Malinoski, Geo. H.
Johnson, Albin	Lincoln, Floyd C.	Malone, May M.
Johnson, Arthur B.	Lincoln, Howard H.	Maltritz, Chas. C.
Johnson, Herman O.	Lippold, Walter A.	Manglos, Fred
Johnson, Arthur G.	Litchfield, Raymond	Mann, Arthur
Johnson, Ellis E.	Livingston, Ivan J.	Marks, Zellah
Johnson, Harry F.	Lockwood, Frank D.	Marsh, L. Bernard
Johnson, Leroy J.	Lockwood, Vernon H.	Marsh, Jas. A.

Marshall, Howard E.
 Marthey, Charles L.
 Martin, Roy C.
 Martinson, Nelson
 Mason, Arthur
 Mason, Wm. A.
 Mathy, John
 Maul, Chas. H.
 Meade, Murray E.
 Mehl, August H.
 Merrillat, Edward A.
 Meyer, Louis A.
 Miel, Howard
 Millford, Earl R.
 Millard, Harry A.
 Miller, Jerome
 Miller, Thos. G.
 Mills, Zella
 Minard, Jas. L.
 Miner, Sylvester A.
 Miner, John I.
 Mitchell, T. Fred
 Mokma, John L.
 Monaghan, Frank E.
 Moore, Ada M.
 Morgan, Orvin
 Morrill, Ralph L.
 Morse, Fay
 Munro, Elinor
 Munson, Albert
 Murphy, F. Quinn

 Nadeau, Jessie M.
 Nash, John E.
 Nelson, Axel
 Nelsen, Arthur B.
 Nelson, Bessie M.
 Nelson, Harry R.
 Nelson, Miles A.
 Nettnay, Minnie
 Newark, Iva M.
 Newberry, Guy
 Newman, George
 Nichols, Ernest O.
 Niebur, Leo F.
 Nielsen, Wm.
 Nisewander, Gladys
 Nyman, Emory O.

 O'Brien, Jos. M.
 O'Connell, Daniel J.
 Olsen, Harry E.
 Olsen, Helen
 Olsen, Martha
 Olsen, Oscar M.
 Olson, Albert E.
 Olsson, Cora
 O'Morrow, Tracy
 Orr, L. Bebecca

 Orr, Robert E.
 O'Shea, Jos.

 Padgett, Vernon J.
 Page, Avelyn C.
 Pahl, Alexander
 Palmer, Florence V.
 Park, Robert
 Partanen, Henry
 Patrick, Guy
 Pattison, Ira L.
 Peacock, Jas. H.
 Pearce, Martin
 Pecard, Adolph J.
 Pell, Earl G.
 Pell, Henry T.
 Pelletier, Frank
 Pelletier, Thos. J.
 Penberthy, Stanley
 Perry, Clyde E.
 Petersen, Milo
 Peterson, Thorwald R.
 Peterson, Paul G.
 Peterson, Anna C.
 Peterson, Axel
 Peterson, C. Wm.
 Peterson, Theo. R.
 Peterwitz, Carl C.
 Pettey, Perry
 Phillion, Jas.
 Pinet, Raymond
 Plant, Josephine
 Platts, Ralph
 Plumley, Alonzo W.
 Pollex, Lena B.
 Pool, Alice E.
 Porter, Sydney
 Potter, Raymond V.
 Potter, Rivington H.
 Pratt, Ralph
 Price, Chas. S.
 Price, Lucy E.
 Pridgeon, Howard
 Priemer, Ethelyn D.
 Prisk, Jessie
 Pullen, Emmett J.
 Purdy, Seth B.

 Quain, Herbert
 Quain, W. Leo.

 Redmond, W. Att
 Redmond, W. Harris
 Reid, Michael
 Rehkopf, Casper H.
 Reynolds, Wm. A.
 Rhode, Carl F.
 Ribble, Geo. J.

 Rice, Orlo M.
 Richards, Raymond
 Richardson, Claud W.
 Richardson, Hazel A.
 Richardson, Geo. R.
 Richardson, Ernest H.
 Richardson, Leo P.
 Riley, Sime
 Ritchie, James M.
 Roben, Douglas B.
 Roe, Junius
 Roen, Alfred R.
 Roedel, Hermann G.
 Rogers, Mae H.
 Rood, Pearl M.
 Rork, Lyle J.
 Rose, Melvin H.
 Ross, Kirb E.
 Rottier, Joe
 Roussin, Harold
 Rourke, Jas. A.
 Ruffi, Adolph
 Russell, Park D.
 Ryan, Clyde J.
 Ryan, Peter
 Ryan, Isabel

 Sammons, Madge
 Sampson, Albert B.
 Sanford, Loleta L.
 Sawall, Otto A.
 Sawyer, Wilson R.
 Saxe, Chas. E.
 Saxton, Ferris
 Schafer, Edvena
 Schafer, Ed.
 Scheibe, Jas. H.
 Scheurer, Louis E.
 Schloeman, Henry W.
 Schram, Lena
 Scott, Howard R.
 Scott, Jos. C.
 Scott, Ray T.*
 See, Louise E.
 Sehm, Ruth E.
 Seinen, Geo.
 Sellke, Fred
 Sergeant, Ralph R.
 Setchfield, Richard W.
 Schaefer, Francis M.
 Sharpe, Vernon L.
 Shaver, Geo. C.
 Shaw, Roy C.
 Shepard, Bess
 Sheppard, Clarence
 Shea, Date
 Shilling, Bertha W.
 Shilling, Myrtle

* Deceased.

Shipley, Glenn	Taggart, Clinton W.	Walberg, Geo. M.
Shunk, August C.	Tanner, Frank B.	Waltz, John
Shunneson, Clarence	Taylor, Chas.	Ward, Harold
Sickles, Victor C.	Taylor, G. Harold	Ward, Tefell R.
Silsby, Harry R.	Teachout, Scott	Ward, Roy O.
Silliman, Ruth	Tefft, Clare B.	Warner, Winnifred
Simmons, Flora M.	Thaler, Wm. H.	Warner, Clara
Simmons, Roy L.	Thatcher, Oliver V.	Waterbury, Mary E.
Sissem, Florence	Thelen, Victor	Weaver, Raymond
Skeoch, Will J.	Thomas, Leonard J.	Weber, Wm.
Skelley, Anna E.	Thomas, Arthur N.	Weinberg, Roy W.
Smith, Edith V.	Thompson, Ed. J.	Weir, A. J.
Smith, H. Ezra	Thompson, A. J.	Weir, Lloyd H.
Smith, J. Harrison	Thompson, Howard A.	Wells, Ralph O.
Smith, Pauline C.	Thompson, Ralph P.	Wells, Wm. F.
Smith, Theo. J.	Tompkins, Floyd	Welsh, Clarence A.
Smith, Walter R.	Tomlinson, Wm.	Wendel, Fritz R.
Smith, Clair L.	Tompson, Earl	Wentworth, Elmer R.
Smith, Ira E.	Topham, Arthur T.	West, Pauline F.
Smith, Clyde H.	Towle, Harry A.	West, Lloyd D.
Snell, Fred O.	Toukonen, Sefanias	Wheeler, Claud C.
Snyder, Geo. W.	Townsend, A. E.	White, Guy E.
Sobey, Addie	Townsend, Mrs. H. M.	Whybrew, Ethel J.
Soper, David	Townsend, Ray M.	Wilber, Howard R.*
Soper, Jas. E.	Townsend, Wm. K.	Wilberg, Roy
Sparks, Floyd B.	Trethewey, H. G.	Wilcox, Jay
Sparling, Harvey	Trowbridge, Earl	Willett, Byron
Speaker, Jesse	Truckey, Alice	Willett, Chas.
Speltz, Chas.	Tubergen, Fred	Willoughby, E. E.
Sprigg, Will J.	Tunney Marguerite	Wilson, Frances M.
Squier, John M.	Tuttle, Albert M.	Wingate, Paul M.
Stampfer, Frank	Tuttle, Harry L.	Winkler, Roy L.
Stanton, Delbert G.		Wirgau, Alfred T.
Staples, Elmer	VanHaitsma, T. P.	Wixson, Arlo J.
Steadman, Walter T.	VanRaalte, A. R.	Wolfe, Loyd A.
Stebbins, Leo A.	Varino, Wilfred	Wood, Harry A.
Stegenga, Wietse S.*	Vergowe, Milton S.	Wood, Herbert G.
Stevens, Will H.	Vicary, Ward	Wood, Oscar S.
Stewart, Clarence	Vining, Hazel G.	Wood, w. Claud
Stock, Harold		Wood, Wm. A.
Stocking, Hazel A.	Wadle, Claude F.	Wright, Losey
Stone, C. Alfred	Wadley, Geo.	Wright, Wm. B.
Stone, Elwin J.	Wagner, Cora	
Strand, John G.	Waite, Foster C.	Young, Ida M.
Streeter, Harry A.	Walbridge, H. R.	Young, John
Strong, Logan J.	Waldenmeyer, V.	Youngquist, Emily
Strong, Loren J.	Walker, Cecile C.	
Sullivan, Geo. J.	Wall, Ed. J.	
Sullivan, Thos. L.	Wall, Jos. M.	Zeigler, Gus
Supp, Floyd A.	Wallace, W. Clare	Zemke, Erwin A.
Swan, Chester W.		

SHORTHAND

Abel, Lena	Allen, Marguerite M.	Anderson, Bertha
Adams, Miles M.	Allen, Olive	Anderson, Elizabeth
Aldrich, Basil	Almer, Grace	Anderson, Elmer
Alexander, Crystal	Amidon, Elizabeth	Anderson, Elof

* Deceased.

Anderson, Selma
Archenbron, Geo.

Backus, Wm. E.
Bahr, Fannie
Baker, Candace M.
Barlow, Wyatt W.
Barnes, Chas. C.
Barnes, Mary C.
Barton, Jas. H.
Basom, Floyd
Baxter, Don A.
Bayne, Alice
Beardsley, Ervin
Beaudin, Katherine
Becker, H. W.
Beebe, Leah E.
Beebee, Nora L.
Belland, Jas. J.
Bennett, Bertha
Benson, Alfred B.
Benthin, Christie
Bernatche, Emil
Bissell, Clement W.
Bills, Hazel
Bjorkman, Elsie
Black, Howard
Bladzik, M. J.
Blake, Ina
Boda, Henry
Boisen, Caroline
Boisen, Emma
Bolyard, Laura
Bonnin, Louis C.
Booze, Ethel
Bost, Fred
Bostick, Rex
Bouman, Nicholas
Bowen, Bessie
Bracker, Mary
Bradley, Frank
Branch, John
Bridegam, Lawrence
Bronk, Richard H.
Brooks, G. H.
Broomfield, Zulah
Brophy, John F.
Browning, Amy
Bryant, Mabel
Bugai, Jos.
Bulmer, Eva
Burke, Margaret
Burnett, Chauncey V.
Burton, Beulah
Burton, Calvin
Buskirk, Clarence
Butler, Edwin

Cain, R. Jetta
Camp, Rose
Campbell, Roy T.
Campeau, Lucy
Carbonneau, Peter
Carlsen, Laura
Carmody, Nina
Carr, Clara
Carter, W. J.
Chapin, Irma
Chase, Blanche T.
Chase, J. E. Foss
Chestnut, Manley J.
Chiconski, Marie
Chisholm, Christy
Christensen, Lilly D.
Clark, Mary M.
Clough, Chas.
Colburn, Stella
Cole, Josephine
Cole, Harry
Comloquoy, Ruby
Conaty, Agnes
Coddington, Nellie
Cogger, Harold
Congdon, Rose
Cook, Julia
Cook, O. H.
Coombs, Ruth
Coombs, Zoe
Cory, Dean P.
Courtney, Etha
Courville, Anna
Cousins, Hubert
Cox, Francena
Cremer, Lenora
Creighton, Martha
Crowell, Maude E.
Crump, Carrie
Curtiss, Phebe
Curtis, Frank E.
Curran, Anna
Cutler, Kenneth M.
Cutliff, Chas. Neal

Dadson, Herbert
Dallavo, Geo. W.
Daily, Chas.
Daly, Thurman
Dann, Earl
Darrah, Gordon
Daugherty, Clark
Davidson, Geo. M.
DeRoer, Ethel L.
Decker, Adolph
Decker, Blanche
Deehr, Ida
Denny, Roxy

Dervoe, Werner N.
DesJardins, Mary
Dewing, Henry S.
Dickerson, Vere B.
Dietz, Anna
Dimond, Linton B.
Doan, Verne
Dolberg, Oscar C.
Donner, Bertha
Downing, Don B.
Dozer, Mrs. Ida B.
Dromenske, Anna
Dromenske, Haidee
Duffy, Leo P.
Dumon, John
Duncan, Jos.
Duvall, Mabel
Dwyer, Katherine

Eagen, Vie
Eaver, Alan R.
Eggle, Ida
Ehnerd, Clarence
Elliott, Loran
Elliott, Adelle M.
Elton, Mima J.
Emery, Bertha
Emig, J. W.
Erickson, Marguerite
Erikson, Venus H.
Evans, Marguerite
Eymer, Blanche

Fair, Jasper
Fegert, Minnie
Fish, Monta
Fisher, Cecelia
Fleser, Glenn
Florer, Susan
Fontanna, Stanley G.
Foster, Mrs. Albertha
Fowler, Irma
Frank, Ruth
Frank, Selma
Franck, Theo.
Frary, Florence
Freeman, B. W.
Fribley, Harry
Frieberg, Harriett
Furney, Cynthia

Gale, Jas.
Gallant, Harriet
Gardner, Charlotte
Garfat, Barbara
Gates, Gertrude
Gauthier, Chas. S.
George, Gertrude
Gere, Florence

Genung, E. Glenn
Gibson, Ruth
Giffels, Lewis
Gifford, Leola
Gilbert, Belle
Giles, Guy Allen
Gilmore, Arthur
Gish, Eva M.
Gish, Alberta S.
Glawe, Dora
Gleason, Anne L.
Gomach, Henry
Gormsen, Morris
Gorrie, Agnes C.
Gorsline, Myrtle
Graefe, Chas.
Graham, Geo.
Granroth, Edward A.
Green, Richard
Griffin, W. Gail
Griffith, Josephine
Grimes, Clifford
Griswold, Mae
Gunderson, Ernest
Gundry, Roy
Gunn, Ralph
Gustafson, Edith
Gurley, L. C.

Hackney, Jas.
Hall, E. Fred
Ham, Clifford
Hamill, Herbert
Hamilton, Margaret
Hansen, Geo.
Hanson, Tony
Hansen, Mayme
Hardy, E. F.
Hardman, Florence
Hare, Ed.
Harper, Margaret
Harrington, Edith
Harris, Veva
Harwood, Lewis
Hawkins, Alfred
Hazelton, Beulah
Hazzard, Chas.
Heabler, Harry Ray
Head, Mrs. Alice
Heald, Irma
Heinold, Lena
Heinold, Katherine
Heitke, Emma
Heitke, Herbert
Henderson, Ross
Henning, Belle
Herdell, E. W.
Herweyer, John

Hewitt, Loren
Hicks, Robert
Hill, Vance
Hill, Luella M.
Hilliard, Emily
Hilyer, Florence
Hockstra, J. J.
Hoit, Jessie
Holmes, Winnifred
Holmgren, John
Hornick, Elizabeth
Hughes, Mabel
Hughitt, Ernest F.
Hulett, J. H.
Hull, Glenn
Hull, Lulu
Hunt, Orma
Hunter, Minnie
Hunter, Helen
Hutchins, Gertrude

Irish, Fannie
Isham, Roy

Jack, Earl K.
Jamieson, Duncan
Jayne, Edmund Ray
Jenson, Chas.
Jerrett, Harris R.
Jewson, F. Frank
Johnson, Arthur B.
Johnson, Edward C.
Johnson, Adolph
Johnson, Amanda
Johnson, Harry
Johnson, Frederica
Johnson, W. E.
Johnston, Ella O.
Jones, John Paul

Kahn, Sidney
Kallio, Arthur
Kanehl, Emma
Kaufman, Georgia
Keillor, Frank
Kearney, Gertrude
Keenan, Ellen
Keith, Grove M.
Kelly, John C.
Kelly, Wm. H.
Kelsey, Jas. C.
Kemp, Richard J.
Kenaga, Harold E.
Kent, Leo J.
Kidder, Ethelyn
Kidder, Virgil
Kieft, Fred
Kingston, F. B.

Kingsley, Victor E.
Klingensmith, Gladys
Kloet, Leonard
Knudsen, Ingelborg
Knudsen, Mary
Kopnick, Martin
Kreidler, Chas.
Kreiner, Rose
Kress, James L.
Krussell, Abbie
Kuder, Jennie E.

Labbe, Garfield
Labree, Leo. L.
LaBar, Fannie
LaFountain, Myrtle
Lake, Richard
Lamb, Kate E.
Lambert, Clarence
Lambert, Harriette
Larson, Tony
Larson, Roy
Larsen, Albert
Lauderville, Frances
Laurie, Laura
Lauritzen, Eva
Leary, Anna
Leavenworth, Jay C.
Lee, Nellie Rose
Lee, Harry I.
LeFord, Ouida
Lehman, Carrie
Lehman, Rose
Levitan, Rose
Levitan, Charlotte
Levitan, Wm.
LeWicke, Max A.
Lewis, Bernice
LeDell, Geo. E.
Lillie, Oliver C.
Lillie, Pearl E.
Lindblom, Walter
Lindquist, Hjalmer
Lorenz, Frank
Loud, Mary B.
Lowe, Erma
Lund, Emma
Lundborg, Hilma
Lutz, John R.

MacDonald, Jessie M.
MacNeill, Olive E.
McAndrews, P. J.
McConnell, Katherine
McConnell, Walker
McCully, John W.
McCurdie, Hugh
McDermott, Mildred
McElrone, Anna

McGee, Lillian
 McHattie, Anna B.
 McIntyre, Jennie

 Mabie, Sylvester
 Mackenzie, Hugh A.
 Maclaren, Anna
 Madden, Simon J.
 Madray, Virgil E.
 Malone, May
 Maltby, Wm. O.
 Maney, Ray
 Manglos, Thos.
 Manglos, Fred
 Manross, Iva
 Marks, Zillah
 Martin, Grace
 Martindale, Jared
 Marvin, Chas.
 Mason, Ward K.
 Maul, Chas.
 Mehl, Emil
 Mehl, Emma
 Mericle, Pearl H.
 Miel, Howard
 Miller, Darrell H.
 Mitchell, Fred
 Morrill, Geo. Neal
 Moran, Robert
 Morgan, Letha
 Mosher, Lucia A.
 Mosher, May
 Moulton, Clara
 Moyer, Maylon
 Munro, Eleanor
 Murphy, Bernard
 Murray, John
 Murray, Ray

 Nadeau, Jessie
 Nash, Edna L.
 Nelson, Edward C.
 Nelson, Arthur
 Nelson, Louis
 Nelson, Miles
 Nelson, Nettie
 Nettnay, Minnie
 Newman, Joel E.
 Niergarth, Omer
 Nixon, Pearle
 Nott, Maud
 Nowlen, Elizabeth
 Noyes, Winnie E.
 Nystrom, John Elmer

 Odell, Floyd
 O'Hara, Mae
 Olsen, Aurora
 Olsen, Martha

Olson, Albert E.
 Olson, Ethel
 Olson, Floyd
 Olson, Harry E.
 Olson, Hilman
 Olson, Julius

 Paine, Creston
 Park, Henry
 Peacock, Ralph
 Pearce, Martin
 Peary, Otto W.
 Pearsall, Vernon
 Pearsall, Maude W.
 Peterman, Roy
 Peterman, Ralph
 Peterson, Wm. C.
 Peterson, Milo
 Peterson, Theo.
 Peterson, Irving
 Peterson, Arthur W.
 Peterson, Gust F.
 Peterson, Thorwald P.
 Peterwitz, Carl
 Petts, Arthur
 Phillips, Will
 Pierson, Viola
 Pierson, Geo.
 Pinet, Raymond
 Place, Hazel
 Place, Geo. W.
 Plumley, Alonzo
 Plunkett, Roy A.
 Pollex, Lena B.
 Price, Lucy
 Priestley, Anna M.
 Pullen, Emmet
 Pullen, Claude
 Pulling, Elizabeth

Quillin, Elmer

 Radcliffe, Robert H.
 Raffin, Oswald
 Ramsdell, J. L.
 Randall, Roy D.
 Ranger, Ruth
 Ransom, Mae
 Rasmussen, Fred
 Rasmussen, Victor A.
 Rasmusson, Amanda
 Rau, Louise
 Ray, Lulu M.
 Reid, E. Clair
 Retkowski, Lena
 Rich, Geo.
 Rich, Edgar
 Rieger, Clara
 Rilett, Evelyn

Rivers, Dolly
 Roach, Nellie
 Robinson, Judith A.
 Ross, Jas. Lee
 Roundtree, Wm.
 Rourke, Jas. A.
 Royal, Harold
 Royce, Mildred
 Reutz, Ida
 Runnell, Marguerite
 Ryan, Clyde
 Ryan, Isabel

Sammons, Madge
 Sanno, Matilda
 Sanregret, Leo P.
 Satterly, Bertha
 Saxe, Chas.
 Schafer, Edvena
 Schepers, Jennie
 Schloeman, Henry W.
 Schlueter, Mrs. Robin
 Schram, Lena
 Scott, Ray T.*
 See, Elsie
 Sehm, Ruth Esther
 Sellke, Fred
 Servis, Geo. E.
 Severson, Jessie
 Sexton, Blanche
 Shafer, Mamie
 Shane, Wilhelmena
 Sharpe, Vernon L.
 Shea, Kate
 Shepard, Bess
 Sherrod, Dana P.
 Silliman, Ruth
 Silsby, H. R.
 Simmons, Clyde
 Skelly, Anna
 Skinner, Elmer
 Sly, Ward
 Smithers, James
 Smith, Ira E.
 Smith, Evelyn
 Smith, Pauline C.
 Smith, Waddick
 Smith Marjorie D.
 Smith, John
 Smith, Jos.
 Smithers, Jas.
 Sobey, Addie
 Spears, Harold
 Speaker, Jesse
 Spencer, Korah
 Spencer, Pearl
 Sporer, Bess
 Stanton, Delbert

* Deceased.

Steck, Walter	Trim, Robert E.	Wettlaufer, Elizabeth
Stevens, Will	Truckey, Alice M.	Whitaker, Frank
Stever, Virginia E.	Turnbull, Harry A.	Wiggins, Ruth
Stock, Harold		Wilber, Glenn
Stopes, Margaret	Utberg, Minnie	Wilfong, Ernest
Straight, Rollo		Wilcox, Ada P.
Sundquist, Selma	VanDenberg, Ralph	Wilkins, Harry C.
Swanson, Ida	Varino, Wilfred	Wilkinson, Madge
Sweet, Estelle	VanSkiver, Fred	Wilkinson, G. C.
Swenson, Carl J.	Veillette, Arthur	Willett, Chas.
Symons, Edwin	Veldman, Rene	Willgreen, Olive
	Vierk, Fred	Willis, Cecile
	Vietzke, Amanda	Willis, Myrtle
	Vining, Jas. L.	Wilson, Erma
	Voorheis, Isaac W., Jr.	Wilson, Frances
		Wilson, Grace
		Wilson, David
		Willson, Blanche E.
		Willson, Marion S.
		Winegar, Lester
		Wood, Alfred
		Woodward, W. W.
		Wyble, Verne H.
		Wyss, Olive
		Youngquist, Emily

PHARMACY

Abbott, Earl G.	Corkin, Edward	Gronseth, Thos. C.
Abendroth, Will H.	Corpus, Geo.	Growden, Argylle L.
Allgeo, Ford M.	Creagan, Carl E.	Grover, John E.
Aldrich, Otto M.	Crawford, John B.	
Alward, Orill L.	Crissman, Lewis C.	Hadden, Earl
Anderson, Axel E.	Cudihy, Frank T.	Harmon, Louis H.
Andrews, V. Dale		Hartle, Bernard C.
		Harvey, Marvin
		Haynes, J. O.
		Herron, Earle A.
		Hines, Galo E.
		Hirschfeld, Jos. C.
		Hoffer, Louis J.
		Houser, Dan W.
		Hubbert, Erwin J.
		Hunter, Blair B.
		Hutton, Lorin T.
		Ingersoll, Chas. M.
		Johnson, Raymond W.
		Jones, Arthur E.
		Kenny, Geo. E., Jr.
		Kephart, Frank C.
		Kessel, Martin A.
		Kidder, Louis D.
		Kivela, Henry V.
		Klatt, Wm. H.

* Deceased.

Knapp, Willoughby T. Niendorf, Lawrence H. Slattery, Patrick T.
 Knisely, Holton Nihart, Hoyt C. Smith, Clyde A.
 Kolb, R. Herbert Norton, Frank W. Snyder, Fred
 LaJeunesse, R| J. Palmerleau, Jos. L. Snyder, Geo. F.
 LaLonde, Claude Parshell, Edmund A. Spayde, Emerson
 Lantis, Daniel R. Paterson, Harry J. Speckhard, Evan C.
 Lawrence, Erwin H. Payne, Lynn D. Stenton, David B.
 Layman, Rudson J. Peck, Ben Stuart, Alex. A.
 Leever, Jess A. Penniman, Frank Sutton, Wm. L.
 Lindeborg, Andrew N. Phillips, Lester E. Swift, Earl B.
 Lindstrom, Guy W. Pinkerton, Roy Switalski, Dominic N.
 Lower, Glenn D. Piotrowski, Peter P.
 Lustig, Albert A. Pomeroy, Forest C. Taft, Wm. Guy
 LyBarker, Burdette A. Potter, Tona C. Teachout, Ida V.
 McCormick, Earl H. Rasmussen, Edward R. Thielman, Fred E.
 McSherry, Wm. J. Raub, Harry N. Torberson, Emil J.
 Madison, Geo. F. Reid, Sherman L. Tracy, Fred C.
 Marsh, Don W. Reno, Alger R. Tredeau, Chas.
 Martin, Edward W. Reynolds, Clark
 Martin, Horace Ray Richert, Martin J. VerValin, Vane
 Martin, Wm. G. Richter, Carl L. Visger, Roy F.
 Martz, Herbert H. Roberts, Carlisle A. Von Rosenberg, Dr. A.
 Mathews, Eri C. Roberts, Frank H.
 Maxted, Chas. J., Jr. Robertson, Chas. R.
 Meloche, Ernest J. Roshak, Anthony
 Melton, Roy E. Ross, Jas. L.
 Meyer, Henry J. Roussin, Harold
 Milbourn, Harry Rowe, Clyde D.
 Millman, Harry C. Schobert, Martin M.
 Minty, John Schuyler, Windsor D.
 Milner, Franklin C. Sergeant, Floyd A.
 Montfort, Roy M. Shapero, Nate S.
 Moore, Milford D. Shepherd, John S.
 Murdaugh, Ross A. Sherman, Clarence B.

TELEGRAPHY

Aldrich, Leon H. Carpenter, Bert J. Goniach, Henry
 Armstrong, Irving J. Cole, Claud Goodreau, Regina M.
 Ashcraft, Verrill A. Corbett, Chas. M.
 Barley, Gordon Cosens, Ralph R.
 Barto, Homer Dale Crossley, Ernest G.
 Bigelow, Frederick Curtis, Royce B.
 Birch, Karl Dales, Russell W.
 Blanchard, Lester Davis, Ivan
 Bloxson, Raymond E. DeMars, Harry E.
 Branch, Clare E. Eggert, Frank H.
 Brandon, John F. Etcorn, Leo P.
 Burke, Mary Ellen Ferris, Geo. J.
 Burhans, Clyde Gale, Jas. Wm.
 Buschert, Ray Gates, Dwight
 Byrne, Frank J. Glowski, Casmer A.
 Cameron, Floyd
 Campbell, Frank W. Larsen, Fred W.
 Lawrence, Lester F.

Lee, Norman R.
Leroy, Sterling J.
Lindsey, J. Orville
Lint, Glen
Lypps, Arthur H.

McCaren, Frank
McGovern, Bartle
Major, Martin E.
Marvin, Floyd J.
Mathy, John J.
Morrell, Neal
Morrell, Ralph
Murphy, Ernest C.
Myers, Howard C.

Nelson, Axel F.
Nelson, Elmer
Nelson, Lena E.
Nielsen, Gunnar
Noble, Douglas W.
Noud, Thos. P.

Oborsky, Theo. G.
O'Brien, Calvin L.
Odle, Paul L.
Olson, Maud
Osterhout, Travers
Osterhout, Mrs. T.
Ott, Henry

Parks, Chas., Jr.
Peplinski, Aloisius K.
Pinckney, Earl C.
Pointer, Louis M.

Randall, Jay L.
Redmond, Jay E.
Reichel, Harry
Ribble, Geo. J.
Rice, Orlo M.

Sanders, Almer J.
Sanders, John M.
Schiffer, Paul H.
Seavers, Roscoe W.

Seymour, Clifford
Shunk, August C.
Smith, Jos. B.
Stepanski, John

Thompson, Earl
Toms, Roland E.
Townsend, Ray M.
Trudell, Albert J.

Utberg, Geo.

Valley, Louis B.
Veldman, Clarence

Ward, Arthur
Warren, Wm. M.
Weich, E. J.
Wood, Wm. Grover
Wubbena, Fred E.

Zank, August
Zmich, Stanley A.

KINDERGARTEN

Ahlgren, Ruth
Alspaugh, Anna N.
Bentley, Lucile
Blair, Marvel S.
Brown, Mabel G.
Bunting, Evelyn P.
Burdge, A. Maud
Cole, Lois A.
Conner, Grace F.
Coughlin, Eva

Davis, Lucile
Dysinger, Mable V.
Erikson, Venus H.
Freise, Emma R.
Forbush, Mary L.
Goodwin, Edith M.
Graunstadt, Louisa C.
Guild, Cora E.

Hanchette, Ethel
Hansen, Louise
Hidahl, Esther

Johnson, Ida E.
Johnson, Grace M.

Lowell, Hattie

McConnell, K. A.
McNeven, Anna

Mahar, Merle B.
Maxfield, Goldie M.
Merrill, Mary Belle
Morse, Jennie
Mulvaney, Anna M.

Nichols, Bessie
Nordquist, Lillian R.
Northrup, Nina M.

Pearce, Kezzie
Prevost, Lulu M.

Robinson, Edith E.
Rose, Fern F.

Scott, Ethel H.
Simsy, Edith M.
Smith, Myrtle L.
Stroven, Katherine B.
Swords, Bonnbelle F.

Tunney, Marguerite J.
Tuttle, Della M.

Waters, Mrs. O. M.
Watson, Bessie E.
Weberg, Mary A.
Whillans, Cora
Wood, Grace M.

CIVIL SERVICE

Beaufait, Elmer J.
Blackmer, Zene W.
Buck, Harry E.

Donovan, Robert L.
Dwyer, Earl

Ferry, Chas.

Grace, Chas. W.

Ingersoll, Dell E.

Johnston, Floyd A.

Knapp, Raymond
Kurtz, Clifford A.

Lincoln, Floyd C.
Luibrand, Frank W.

McCane, Wm. N.

Nusbaum, Jas. J.

Otto, Geo. H.

Parker, Milton
Pecard, Adolph J.
Poffenberger, Ward

Robinson, Will A.

Wilsey, J. Eaton
Wood, Gertrude L.

DRAWING

Albertson, Carolyn	Crossley, Ernest G.	Hanchette, Ethel
Alspaugh, Anna	Curtis, Frank	Hangstafer, Mayme
Anderson, Phoebe	Curtis, Royce	Hansen, Louise C.
Andres, Michael L.	Cutliff, Neal	Harris, Stella
Andrus, Reginald B.		Hartson, Nellie
Archer, Dorothea		Hartt, Edna M.
	Davis, Wilber H.	Hauer, Albert J.
Bacon, Olivia	Davis, Lucile	Hayward, Grace
Baer, Cornelius	Deehr, Ida J.	Heaton, Margaret
Baker, Bessie	Deehr, Lizzie	Hewitt, Loren
Baker, Celia M.	DeKraker, Emeline	Hidahl, Esther
Baldwin, Edythe M.	DeLine, Mrs. Bessie M.	Hines, Alice M.
Basom, Ransford	Dempsey, Mae	Hines, Clara B.
Bates, Lester D.	Dewey, Caroline A.	Holland, Anne E.
Beemer, Beatrice	Doar, Helen M.	Holly, Edith
Benthien, Christie	Doherty, Katherine	Hughes, Frances E.
Bentley, Lucile	Douglas, H. D.	Hulett, J. H.
Bettes, Audrey L.	Drager, Bertha E.	Humphrey, Edith
Bilton, Jean F.	Drake, Lulu	Humphrey, Frances
Bishop, Allie	Drake, Will W.	Hurd, Chas. B.
Blair, Marvel S.	DulBois, Ada	Husen, Lucinda
Blight, Olive	Dudley, Frances M.	
Blount, Frankie	Dunn, Edith	
Boyer, Anna		Imbertson, John B.
Bracker, Adolph	Easton, Harry	Iutzi, Bertha
Brady, Fern	Ebert, Walter H.	
Bressler, Gretchen	Eckhoff, Jessie	Jarvis, Anna
Broomfield, Grace M.	Eliason, Mary C.	Jennings, Ella F.
Broomfield, S. C.	Elliott, Vina	Johnson, Agnes
Brown, Mabel	Ellis, Elizabeth	Johnson, Eleanor S.
Bryce, Mae	Elton, Mima J.	Johnson, Ella H.
Bullock, Eddy S.	Erickson, Anna J.	Johnson, Grace M.
Bunting, Evelyn	Erikson, Venus H.	Johnson, Ida
Burdge, Maud	Ernst, Lottie	Jones, Laurel
Burgess, Carlton		
Burrett, May	Fales, Grace	Kapnick, Augusta
Buttars, Mary F.	Forbush, Mary	Keillor, Bessie
	Frasher, Elizabeth	Kenny, Mae
Campbell, Arthur B.	Freise, Emma	Kirkendall, Flossie
Campbell, Ella	Frost, Hazel	Komrau, Nellie M.
Campbell, Frank	Fuller, Floyd	Kunzmann, Anna
Cameron, Jas.	Fuller, Phebe	
Cane, Veronica		Laing, Phebe L.
Carlson, Laura M.	Gallup, Harper	Laing, Rosemond
Cater, Vira	Garnett, Margaret	Lane, Ruth F.
Caughlin, Eva	Gibbs, Jessie	Lannen, Ray M.
Chapman, Laura	Gibson, May E.	Larson, Emma C.
Chilton, Mary	Giles, Guy	Laycock, Grace E.
Coggan, Bernard	Godden, Herbert W.	LeDelle, Geo. E.
Cogger, Gladys M.	Gordon, Lutie V.	Lincoln, Ethel C.
Coe, Mildred	Graham, Joanna	Lindquist, Jennie M.
Collins, Edith	Graunstadt, Louise C.	Loosemore, Myrtle
Conaty, Marguerite	Grigg, Harold M.	Lorraine, Verschel
Conner, Grace	Groenewoud, G. G.	Lossing, Ilene G.
Cook, Geo. Leland	Grunst, Emma	Lunger, R. C.
Cool, Hazel		Lustig, Albert
Countryman, Flor. M.	Hahn, Lucile V.	
	Hamm, Lela M.	

McCambridge, Louise
McConnell, Katherine
McCrea, Adelia
McDermott, Margaret
McIntyre, Chas.
MacLaughlin, D. L.
McNeven, Anna
McTaggart, Grace

Main, Eleanor
Mahar, Merle B.
Marks, Mary E.
Markstrum, John A.
Maxfield, Goldie
Mead, Murray E.
Mein, Francis
Miel, Howard
Miller, Verne R.
Moore, Lyla
Moore, Mae
Morrell, Lillian
Morrison, Eleanor A.
Morse, Jennie

Nichols, Bessie
Nichols, Ida
Nordquist, Lillian
Northrup, Nina
Noud, Inez

O'Brien, Jas.
O'Brien, Lorán N.
O'Connor, Frank J.
O'Hara, Mae
Oleson, Ina L.
Osterhout, Pearl

Palmer, Florence
Palmer, Viola
Park, Jennie E.
Pashak, Agnes
Peach, Cora M.
Pearce, Kezzie
Pierce, Elizabeth

Pierce, Hazel
Pederson, Harold
Pett, Louise F.
Phelps, Helene
Phelps, Hilda B.
Poats, W. W.
Prevost, Lulu M.
Presley, Helen

Raab, Oscar F.
Ramsdell, Jay L.
Radtke, Edward
Rea, Victor B.
Reed, Orlo
Reed, Stella
Reynolds, Helen
Richardson, Grace E.
Robinson, Edith
Robinson, Jennie M.
Robinson, Wm.
Roedel, Herman
Root, Lottie M.
Rose, Fern F.
Ross, Ethelyn M.
Ross, Florence J.
Rowe, Beatrice
Rowe, Marie
Ruggles, Ethel
Russ, E. Luella

Samson, Laurence
Schafer, John J.
Schmidt, Katie E.
Schmidt, O. H.
Schoedel, Ed
Scott, Ethel
Scott, Howard R.
Seinen, Gertrude
Servis, Geo.
Shields, Catherine C.
Shippy, Maud
Simmons, Flora
Simsy, Edith
Smafield, Wm. B.
Smith, Jeannette S.

Smith, Josephine
Smith, Iva M.
Sommer, Clara
Sparling, Laura
Steel, W. Court
Stewart, Marene
Stocking, Minnie H.
Stocum, Edith
Straight, Ben C.
Stroven, Katherine B.
Swanson, Edith L.
Swords, Bonnbelle

Tape, Henry A.
Tate, A. R.
Taylor, E. Eugenie
Thompson, Ethel G.
Tinklepaugh, Otto
Torrence, Chester B.
Tucker, Maude
Tuttle, Blanche

Vanderveer, C. E.
Van Pelt, Vinnie
Viner, Gladys M.
Vosburg, Clara M.

Walsh, Jos.
Walton, Henrietta F.
Waters, Mrs. O. M.
Watson, Bessie E.
Welcombe, Nina A.
West, Alta
West, Mabel
West, Pauline
Westfall, Harper
Whillans, Cora
Wilber, Eva M.
Williams, Abbie J.
Williams, Harold C.
Wood, Grace

Youard, Gladys
Zetterstedt, Agnes

MUSIC

Adkin, Lola
Allen, Mrs. A. G.
Almroth, Marguerite
Amidon, Lizzie
Anderson, Lila
Archer, Dorothy

Baker, Candace
Baldwin, Edythe
Ball, Rosemond
Bandle, Elizabeth

Bannen, Geo.
Bannen, Ida
Bannen, Zelda
Barnes, Nellie
Barton, Josephine
Bentley, Lucile
Bertrau, Marie
Bevier, Foster
Bigelow, Fred
Bilton, Jean F.
Bishop, Helen

Bishop, O. L.
Blair, Irene
Blair, Mildred
Boyer, Anna
Boyer, Gladys
Bradrick, Chas.
Brady, Fern
Bridegam, Laurence
Brooder, Wm.
Brower, Myrtle
Brown, Mabel

Bruderick, Emma
 Brunett, Felice
 Bryant, Jas.
 Bryers, Fred.
 Bumb, Geo.
 Bumford, Adelle M.
 Burdge, Maud
 Burrett, May
 Burss, Etta
 Buttars, Mary F.
 Carmichael, Pauline
 Cathcart, Ida
 Chestnut, Manly
 Cisler, Gurney C.
 Clark, Delbert
 Clayton, E. J.
 Coe, Laurel
 Coe, Mildred
 Coe, Vera
 Cogger, Gladys M.
 Colby, Mrs.
 Collins, Geo.
 Conklin, Jas. H.
 Conner, Grace
 Connine, Ed
 Connine, Mrs. Ed
 Cool, Hazel
 Coons, A. L.
 Cooper, Lisle
 Corbett, Ethel
 Countryman, Florence
 Cullis, Cass M.
 Curtis, Frank
 Curtis, Frances
 Curtis, Willard
 Cunningham, Wm.
 Dalstrom, Elizabeth
 Dalstrom, Hilma
 Dann, Earl
 Dean, Lillian
 Deehr, Ida J.
 DeMars, Ray
 Dempsey, Mae
 Dewey, Caroline
 Dickerson, Alex.
 Donley, Florence
 Donovan, Frank
 Douglas, Harry
 Downing, D. B.
 Drebin, Harry
 Drebin, Myer
 Dunn, Edith
 Dysinger, Mabel
 Ericks, Oscar E.
 Erickson, Adolph
 Erickson, David
 Ellis, Manly
 Elliott, Vina
 Estes, Francis D.
 Everitt, Kate
 Fairman, Florence
 Fontanna, Stanley
 Ford, Hazel
 Fowler, Oscar
 Frederick, Donna
 Freise, Emma
 Frey, Ernest J.
 Frost, Geo. B.
 Frost, Hazel
 Furniss, Helen
 Furniss, Robert
 Gallagher, Mary
 Garnett, Margaret
 Gibbs, Jessie M.
 Gibson, Ruth
 Gifford, Leola
 Goetz, M. A.
 Gomach, Henry
 Goodwin, Edith
 Graham, Joanna
 Griffith, Isabelle
 Grills, Jas.
 Gustafson, Jos.
 Hahn, Lucile V.
 Ham, Carrie
 Hansen, Hans
 Hansen, Louise C.
 Hartt, Edna M.
 Hart, Viola
 Hartson, Nellie
 Hauer, A. J.
 Hayward, Grace
 Heald, Emma
 Heitke, Herbert
 Helgemo, Alex
 Helms, F. W.
 Herrick, Sue
 Hewitt, Loren
 Hines, Edith
 Holland, Ellen
 Holland, Thos.
 Hood, Marion
 Hopkinson, Leslie
 Houghton, Herbert
 Hudnutt, Marcia
 Hughes, Frances E.
 Hughston, Star
 Hutchins, Georgia
 Imbertson, Bennett
 Jackson, Charlotte
 Jackson, Jas.
 Jacobus, Anna
 Jennings, Ella
 Jensen, Martin
 Johnson, Eleanor S.
 Johnson, Grace
 Jones, Laurel
 Jones, John Paul
 Joswiak, Ernest
 Kane, Arthur
 Keillor, Bessie M.
 Kennedy, Thos.
 Kirkendall, Flossie
 Komrau, Nellie M.
 Kunzmann, Anna
 Labre, Lillian
 Laing, Rosemond
 Lamphere, Florence
 Landsberg, Bennie
 Lane, Mildred M.
 Larocque, Ortis
 Larson, Emma C.
 Lathrop, L. B.
 Lascelle, Alta M.
 Laurie, Laura
 Laycock, Grace E.
 Leachman, Mildred
 LeDelle, Grace M.
 Lidell, Alma
 Lindquist, Jennie M.
 Lippold, Walter
 Loomis, Jessie
 Loosemore, Myrtle
 Lorraine, Verschel
 Lowell, Hattie
 Lutz, Laurel
 Lutz, Vera
 McCaren, Frank
 McConnell, Katherine
 McDonald, Jessie
 McFarlane, Earl
 McFarlan, Hazel
 McKeen, John
 Magoon, E. E.
 Mahaffa, Laura
 Mahar, Merle
 Mahoney, Edgar
 Main, Eleanor
 Malone, May
 Maltby, Wm.
 Maney, Eva
 Mann, Murza
 Mapes, Pearl
 Manross, Rehan

Marks, Mary E.	Raab, Oscar F.	Tape, Henry
Martin, Lydia	Radtke, Edward	Taylor, Florence
Martin R. G.	Ramsdell, Jay	Terry, Mildred
Martin, Floyd	Reagh, Edith	Thatcher, Oliver V.
Masselink, Lawrence	Reagh, Norma	Thiel, Clarence
Masselink, Lillian	Reagh, Russell	Thompson, Ralph
Miel, Howard	Redmond, Mrs. W. H.	Travis, Geraldine
Miller, Maida	Rehkopf, Casper	Travis, Mildred
Moore, Mae	Reynolds, Helen	Tredeau, Chas.
Moore, Ruth	Richardson, Grace E.	Towle, Harry
Morrill, Donald	Ritter, Clark	
Morrison, Eleanor A.	Rose, Fern F.	Van Atter, Katherine
Morrissey, Louise	Ross, Ethelyn M.	Viner, Gladys M.
Morse, Jennie	Roussin, Raymond	Vogel, Oscar
Mosher, Mae	Ruddleff, Frank	
Murdaugh, Ross A.	Russ, E. Luella	
Mulvaney, Anna		Wakefield, Verne
Murphy, Clarence	Schafer, John	Walton, Henrietta F.
	Schmidt, Katie E.	Waters, Mrs. O. M.
Nichols, Bessie	Schobert, Martin	Weich, Edward J.
Northrup, Nina	Schoedel, Ed.	Weinberg, Roy
Noteware, Ruth	Schryer, Elzora	Wells, Ralph O.
	Seberry, Vera	Wells, W. F.
O'Brien, Loran	Servis, Geo.	Welsh, Clarence
O'Hara, Alphonso	Servis, Lulu	West, Alta
O'Hara, Marietta	Shaver, Geo.	Westerman, Florence
Oleson, Ina L.	Shepherd, Ethel	White, Marion
Ott, Lucinda	Shields, Catherine C.	Williams, Abbie J.
	Small, Bessie	Wilkins, Harry C.
Pace, Lillian	Smith, Iva M.	Wilson, Elizabeth
Payton, Minnie	Smith, Jeannette S.	Willson, Blanche
Peach, Cora M.	Sparling, Harvey	Willson, Marion
Pearce, Kezzie	Spears, Harold	Winget, Ada B.
Pearsall, Maude	Stampfer, Frank	Wood, Hazel F.
Peterson, Otto	Steiner, Augusta	Woodford, Emma
Pett, Louise	Sterling, Murdoch	Wright, Bertha
Phelps, Helene	Stenton, David B.	Wright, Geo.
Phelps, Hilda B.	Stewart, Mildred	Wright, Helen
Phillon, Jas.	Stillwell, May	
Pierson, Margaret E.	Stillwell, Russell	Youard, Gladys E.
Pratt, May	Streeter, A. R.	Young, Alex C.
Prevost, Lulu M.	Supp, Floyd A.	Young, Carl
Purtill, Edward	Swords, Bonnbelle	Young, Gladys
Quain, Herbert	Taft, Smith E.	Zank, August
	Taggart, Ella	Zeno, Ben

ELOCUTION

Goodale, June Warren, Edwin E.

INSTRUMENTAL MUSIC

Piano 116	Violin 44
Clarinet 5	Cornet 4
Trombone 4	Saxophone 2
Guitar 2	Flute 1
Baritone 1	

VOICE STUDENTS

30

PUBLIC SPEAKING

Elocution, 2.

General Public Speaking, 270.

Debate, 150.

Total, 422.

PHYSICAL CULTURE

445

SUMMARY

College Preparatory	378
Normal	619
English, Commercial and Shorthand Preparatory, Special.....	350
Commercial	766
Shorthand	587
Pharmacy	176
Telegraphy	104
Kindergarten	50
Civil Service	22
Drawing	281
Music	322
Elocution	2
Total	<u>3,657</u>
Names printed more than once.....	762
	<u>2,895</u>

APPENDIX

For the edification of 1910 and 1911 students of the **Ferris Institute**, we publish in this catalog an abstract of one day's graduating exercises. On the evening of June 29, 1911, the **Ferris Institute** conferred one hundred sixty diplomas. In August, 1911, under favorable circumstances, twenty-seven more diplomas will be conferred, making a total of one hundred eighty-seven for the year. The minimum standing in every subject is eighty-five per cent. No other great secondary school in the United States maintains this high standard. As a consequence, **Ferris Institute** graduates enter the business world or higher institutions of learning and achieve the highest measure of success. For more than a quarter of a century, the **Ferris Institute** has represented the highest and the best in modern education, consequently it has a national reputation. The **Ferris Institute** keeps its doors wide open for ambitious, industrious men and women who cherish and enjoy high ideals. The **Ferris Institute** is thoroughly democratic.

COMMENCEMENT EXERCISES

FERRIS INSTITUTE

Thursday Evening, June 29, 1911

GRADUATES COLLEGE PREPARATORY.

Baer, Cornelius	Henry, W. F.	Rowe, Marie
Broomfield, S. C.	Hines, Allie M.	Ruggles, Ethel
Cameron, Jas.	Holland, Anne	Schafer, John J.
Chilton, Mary	Hughes, John H.	Schmidt, Bertha A.
Connine, Harry J.	Johnson, Agnes S.	Steele, Wm. C.
Cook, Martin, Jr.	Kelly, Florence S.	Streeter, Errol H.
Dwyer, F. J.	Kidder, Sumner L.	Snyder, Geo. F.
Ebert, A. R.	Kirkendall, Flossie	Tape, Henry A.
Ellis, Elizabeth	Lathrop, L. B.	Thompson, Ethel G.
Ernst, Charlotte V.	Mniece, Leonard	Tuttle, Blanche F.
Freeman, Verne A.	Noteware, Roy	Van Dyke, Ralph
Graham, Joanna	Pierce, Hazel	Warapius, John J.
Griffith, Isabelle	Roelofs, Richard	Westover, Marshall
Groenewoud, Gerrit G.	Rowe, Beatrice	Wood, F. Harold
Hamm, Lela M.		

BUSINESS DEPARTMENT.

Atkinson, J. Clare	Herron, Clarence Ray	Price, Chas. S.
Baker, Sheldon Y.	Janeschek, Edward	Rork, Lyle J.
Berti, Titus	Johnson, Walter E.	Rose, Melvin H.
Bladzick, Michael J.	Kinyon, Ruby L.	Ross, Kirby E.
Bole, Everett A.	Kloet, Leonard	Sellke, Frederick A.
Bosley, Mary	Lalonde, Fabian J.	Shaefer, Francis
Breitenwisher, Martha	Langlois, Alexander	Simmons, Flora M.
Buchholz, Philip	Lucas, Harriet E.	Stocking, Hazel
Castle, Coyne D.	McGillis, Roderick	Stone, C. Alfred
Churchill, Edward	McCrea, Mary I.	Strong, Loren James
Claus, William R.	Martin, Roy C.	Swan, Chester W.
Clausen, Carl M.	Millard, Harry A.	Tuttle, Albert M.
Curry, Johnston S.	Minard, James L.	Taylor, Charles
Duffield, Wm. E.	Morrill, Ralph L.	Waldenmeyer, Valerie
Fisher, Mary	Niebur, Leo F.	Ward, Harold B.
Fox, Vernon L.	Nielsen, William	Wheeler, Claud C.
Freeman, Ruth E.	Oleson, Martha	Wilson, Frances M.
Gill, Hazel	Peterwitz, Carl	Wolfe, Lloyd A.
Hansen, George O.	Platts, Ralph	Wood, Claud W.

COMMERCIAL PROFESSIONAL.

Benge, Lea	Leslie, Myrta	Sammons, Madge
Chisholm, Christy	Prisk, Jessie	Wood, Harry A.

KINDERGARTEN.

Ahlgren, Ruth	Maxfield, Goldie	Rose, Fern
Alspaugh, Anna	Merrill, Mary	Stroven, Katherine
Forbush, Mary	McConnell, Katherine	Scott, Ethel
Hansen, Louise	Nichols, Bessie	Swords, Bonnbelle
Johnson, Grace	Prevost, Lula	

PIANO.

Gibson, Ruth	Leachman, Mildred	McFarlane, Hazel
		Stillwell, Marguerite

PHARMACY.

Dickens, Harry S.	Kuisely, Holton K.	Snyder, George F.
Estes, Francis D.	Murdaugh, Ross A.	Sutton, William L.
Furber, C. Floyd	Sergeant, Floyd A.	Teachout, Ida V.

MUSIC AND DRAWING.

Burdge, Maude	Jones, Laurel	Ross, Ethel
Deehr, Ida	Le Delle, Grace	Smith, Iva
Hughes, Frances	Phelps, Hilda	

MUSIC.

Dewey, Caroline

SHORTHAND DEPARTMENT.

Basom, Floyd	Anderson, Selma
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SHORTHAND PROFESSIONAL.

Barnes, Chas. C.	Leslie, Myrta	Willson, Marion
Crowell, Maude E.	Mosher, Mae	Willson, Blanche
Hornick, Elizabeth	Skelley, Anne	

PENMANSHIP.

Chisholm, Christy	Gordon, Lutie	Newberry, Guy
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DRAWING.

Broomfield, Grace	Gordon, Lutie	Swanson, Edith
Frasher, Elizabeth	Hartt, Edna	

FINISHING IN AUGUST.

College Preparatory Department.

Cater, Vira	Neal, R. E.	Thiel, Richard
Cushing, Hilda	Pino, Ralph	Trenter, Ethel
Frost, Geo. B.	Smiseth, Frederic	Vosburg, Clara
Lavender, Elsie	Smith, Lucile	

Drawing Department.

Drager, Bertha E.	Frost, Hazel	Larson, Emma
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Drawing and Music Department.

Johnson, Eleanor

Commercial Department.

Anderson, Leslie	Crone, Leonard	Kenaga, Harold
Blomquist, Harry	Friday, Augustus J.	Schloeman, Henry W.
	Kelley, Daniel A.	

Shorthand, Professional.

Beebe, Leah

Kindergarten Department.

Blair, Marvel	Hidahl, Esther	Mahar, Merle
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Note—The small number of shorthand graduates is due to the fact that shorthanders are employed just as soon as they can do efficient work.