

1925

## 1925. V63.03. November Bulletin.

Hope College

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3

# HOPE COLLEGE BULLETIN

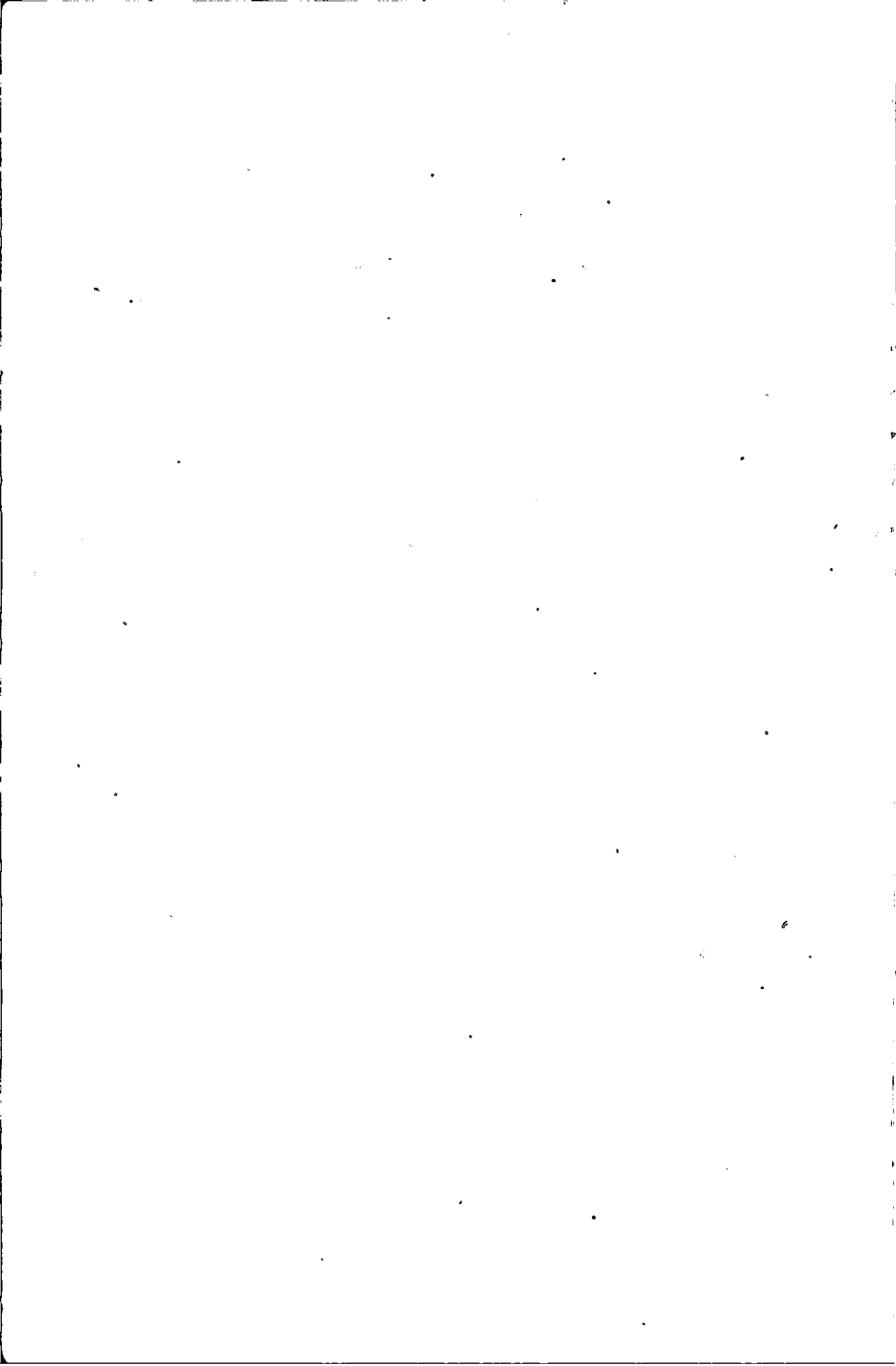
VOLUME 63  
NUMBER 3

*Catalogue*



1925-1926

Holland, Michigan  
November, 1925



# HOPE COLLEGE

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*Founded as the PIONEER SCHOOL 1851*  
*Incorporated as HOPE COLLEGE 1866*

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The Reformed Church  
in America

NOVEMBER BULLETIN

INCLUDING

ANNOUNCEMENTS *for 1926-1927*

**COLLEGE CALENDAR**

1925-1926

**First Semester**

1925

September 15—Registration, beginning at 9 a. m.

September 16—First Semester begins at 9 a. m.

November 26—Thanksgiving Recess.

December 18, 12 Noon—Christmas Recess begins.

1926

January 4—Christmas Recess ends.

January 28—Day of Prayer for Colleges.

January 29—First Semester ends.

**Second Semester**

February 1—Second Semester begins.

March 26-April 5—Spring Recess.

April 28—Meeting of Council of Hope College (Board of Trustees).

May 8—Voorhees Day.

June 4-5—Examination of Senior and "A" Classes.

June 10-11—General Examinations.

June 13—Baccalaureate Sermon.

June 14—Closing Exercises of the Preparatory School in Carnegie Hall, 2 p. m.

June 15—Meeting of Council of Hope College at 10 a. m.

June 15—Alumni Day.

Convocation Dinner, 6:30 p. m.

June 16—Business meeting of Alumni Association, 2:00 p. m.

June 16—Commencement Exercises in Carnegie Hall, 7:30 p. m.

# COLLEGE CALENDAR

1926-1927

## First Semester

1926

September 13, 14—Registration, beginning at 9 a. m.

September 15—First Semester begins at 9 a. m.

November 25—Thanksgiving Recess.

December 17—Christmas Recess begins, 12 noon.

1927

January 3—Christmas Recess ends.

January 27—Day of Prayer for Colleges.

January 28—First Semester ends.

## Second Semester

January 31—Second Semester begins.

March 25—April 4—Spring Recess.

April 27—Meeting of the Council of Hope College (Board of Trustees.)

May 8—Voorhees Day.

June 7-10—Examinations.

June 12—Baccalaureate Services.

June 13—Commencement of the Preparatory School.

June 14—Meeting of the Council of Hope College.

June 14—Convocation of Alumni Association.

June 15—Business Meeting of Alumni Association, 2 p. m.

June 15—Annual Commencement, Carnegie Hall, 7:30 p. m.

## HOPE COLLEGE

## THE FACULTY

1925-1926

EDWARD D. DIMNENT, Litt. D., *President**Foundation of the Reformed Churches of Grand Rapids, Mich.  
In Charge of Economics and Social Science, 1925-1926*

92 East 10th St. Tel., 5330-3r

## BIBLICAL LITERATURE\*

REV. ALBERTUS PIETERS, D. D., *College Pastor**Professor of Biblical Literature*

141 East 10th St. Tel., 5525

*Foundation of the Consistorial Union of the Reformed  
Churches of Holland, Mich.*

## BIOLOGY

FRANK N. PATTERSON, Ph. D.

*Professor of Biology*

235 West 12th St.

## CHEMISTRY

GERRIT VAN ZYL, Ph. D.

*Professor of Chemistry*

46 East 20th St.

## DUTCH

THOMAS E. WELMERS

*In charge of Dutch*

## EDUCATION

EGBERT WINTER, A. M.

*Professor of Education*

272 West 14th St. Tel., 5524

## ENGLISH

MARTHA J. GIBSON, A. M.

*Instructor in English*

Voorhees Hall. Tel., 5307

IRWIN J. LUBBERS, A. B.

*Instructor in English*

236 Columbia Ave. Tel., 2795

JOHN B. NYKERK, A. M., Litt. D., *Dean of Men**Professor of English Language and Literature*

Voorhees Hall. Tel., 5371

## FRENCH

MRS. W. H. DURFEE, A. M., *Dean of Women**Instructor in French*

Voorhees Hall. Tel., 5307

\*List arranged alphabetically according to departments

EDNA MARION VAN DREZER, A. B.

*Instructor in French*

123 East 10th St. Tel., 5365

GERMAN

LAURA A. BOYD, A. M.

*Instructor in German*

R. R. 4. Tel., 4108-6r

GREEK

REV. THOMAS E. WELMERS, A. M., B. D., *Registrar*  
*Voorhees Professor of the Greek Language and Literature*

46 Graves Place. Tel., 2214

HISTORY

BRUCE M. RAYMOND, A. M.

*Foundation of the Collegiate Reformed Church of New York City*

*Instructor in History*

18 East 9th St.

LATIN

EPHRAIM J. ZOOK, A. M.

*Instructor in Latin Language and Literature*

138 West 14th St.

MATHEMATICS

ALBERT E. LAMPEN, A. M.

*Professor of Mathematics*

86 East 14th St. Tel., 2523

PHILOSOPHY

REV. PAUL E. HINKAMP, A. M., B. D.

*Alumni Professor of Philosophy*

64 West 14th St. Tel., 5786

PHYSICAL EDUCATION

JOHN H. L. SCHOUTEN

*Director of Physical Education*

136 East 9th St. Tel., 5463

PHYSICS

CLARENCE KLEIS, A. B.

*Instructor in Physics*

140 East 15th St.

POLITICAL AND SOCIAL SCIENCE

EDWARD D. DIMMENT, Litt. D.

PUBLIC SPEAKING

JOHN B. NYKERK, A. M. Litt. D.

LIBRARIAN

MAGDALENE M. DEPREE

Voorhees Hall. Tel., 2378



## FACULTY

## Standing Committee—1925-1926

## Courses of Study

WELMERS, VAN ZYL, NYKERK, BOYD, PIETERS.

## Student Direction

WELMERS, NYKERK, DURFEE, GIBSON, PIETERS.

WELMERS, TIMMEB, HEITLAND (P. S.)

## Public Programs

NYKERK, WINTER, WELMERS, VAN DREZER, GIBSON, TIMMER, HEITLAND,  
VANDER BORGH, VER HULST.

## Commencement

NYKERK, LUBBERS, LAMPEN, KLEIS, BOYD, GIBSON, WELMERS, HEITLAND,  
EIKENHOUT, TIMMER.

## Press

LUBBERS, WINTER, HINKEMP, PATTERSON.

## Fellowships

WELMERS, NYKERK, LAMPEN, RAYMOND, GIBSON, ZOOK.

## Library

NYKERK, PIETERS, BOYD, VAN ZYL.

## Athletic Activities

WINTER, HINKAMP, DURFEE, GIBSON, TIMMER, HEITLAND, SCHÖUTEN.

## Religious Activities

PIETERS, DURFEE, WELMERS, BOYD, HEITLAND, EIKENHOUT, LUBBERS.

## Social Activities

PIETERS, DURFEE, WELMERS, HEITLAND, NYKERK, TIMMER.

## Appointments and Extensions

WINTER, WELMERS, NYKERK, DURFEE, KLEIS, PIETERS, RAYMOND, ZOOK.

## Contests and Prizes

NYKERK, DURFEE, HINKAMP, BOYD, GIBSON, PIETERS, KLEIS.

WELMERS, HEITLAND, EIKENHOUT, VANDER BORGH (P. S.)

## ADMISSION

Admission into the Freshman class may be obtained in any of the following ways:

1. By presentation of a certificate of full graduation from the Preparatory School of Hope College, (Sixteen Year Hours in Academic Subjects), or from other institutions of like character and grade.

2. By presenting a diploma from any high school accredited by the State Universities of the Eastern and Central States.

3. By examination upon the studies prerequisite to the course desired. (College Entrance Board Standards.)

Students may enter an advanced class either at the beginning of the college year or at other times, provided they offer sixteen standard units of secondary work and sustain a satisfactory examination on the studies already covered by the class which they propose to enter. If students are received "on condition," they may in certain cases be permitted to meet with the class, but all conditions must be removed before regular admission, and no classification will be allowed until all conditions are removed.

## STANDARDS AND GRADES

The minimum passing mark is 70 on the basis of 100. The relative grade of a student is indicated by the following letters, each of which has an approximate value expressed by the percentage figure indicated: "F," minus 70, with no opportunity for making up the deficiency except by repeating the course; "C," minus 70, but with the opportunity of re-examination after private work under the instructor who gave the course, provided this private work is completed within the next succeeding semester; "I," an undetermined grade due to illness or other cause wholly without the control of the student, and in no way connected with lack of ability or application; "L—", 70%; "L", 75%; "L+", 77½%; "M—", 80%; "M", 85%; "M+", 87½%; "G—", 90%; "G", 92½%; "G+", 95%; "E—", 96%; "E", 97½%; "E+", 99%.

## Requirements for Graduation with the A. B. Degree

The degree of Bachelor of Arts is granted upon the completion of one hundred and thirty semester hours of work. The semester hour is defined as one recitation of fifty minutes per week for one semester. Two laboratory hours are equivalent to one recitation period.

### Required of All Students

A Foreign Language .....	20	hours
Biblical Literature .....	6	"
History .....	4	"
English .....	6	"
Psychology .....	4	"
Evidences .....	4	"
Public Speaking .....	2	"
	46	hours

The student must select and complete one of the following groups. (The figures refer to semester hours):

Classical	Latin
Greek .....	Latin .....
20	20
Latin .....	A Modern Language.....
20	20
English .....	English .....
15	15
Mathematics .....	Mathematics .....
9	9
History .....	History .....
8	8
Biblical Literature .....	Biblical Literature .....
6	6
Public Speaking .....	Public Speaking .....
4	4
Political Science .....	Political Science .....
4	4
Psychology .....	Psychology .....
4	4
Ethics .....	Ethics .....
4	4
Evidences .....	Evidences .....
4	4
Electives .....	Electives .....
32	32
130	130

Modern Language—English		Science	
English .....	30	Chemistry or Biology.....	20
French .....	20	Biology or Chemistry.....	10
German .....	20	French or German.....	20
History .....	8	Physics .....	10
Biblical Literature .....	6	Mathematics .....	9
Public Speaking .....	2	Biblical Literature.....	6
Political Science .....	4	English .....	6
Psychology .....	4	History .....	4
Evidences .....	4	Public Speaking .....	2
Electives .....	32	Psychology .....	4
		Evidences .....	4
		Electives .....	35
	130		130

History		Mathematics	
History .....	24	Mathematics .....	22
A Modern Language.....	20	English .....	15
English .....	15	Physics .....	10
Political Science .....	8	French or German.....	20
Philosophy .....	8	Chemistry or Biology.....	10
Biblical Literature .....	6	Biblical Literature .....	6
History of Education .....	6	History .....	4
Psychology .....	4	Public Speaking.....	2
Evidences .....	4	Psychology .....	4
Public Speaking .....	2	Evidences .....	4
Electives .....	33	Philosophy .....	4
		Electives .....	29
	130		130

No degree will be granted until at least one year's resident work has been completed, and this resident year must precede immediately the granting of the degree (except in the case of regular students who may be ill or otherwise incapacitated for Senior year work).

In order that students preparing for medicine may fit themselves they should consult early with the Student Direction Committee, who will advise them with regard to pre-medical groups. No students will be accepted for less than four years pre-medical work.

## DETAIL OF COURSES

The courses given in the Bulletin are those offered in 1925-1926. Any changes that may be made for the year 1926-1927 will be recorded in the August issue of the College Bulletin.

### DEPARTMENT OF BIBLICAL LITERATURE

In all courses given in this department, the genuinely historical character and divine origin and authority of the Bible are unquestioned. The literary value of the Biblical documents is incidentally pointed out. The object in view is to lead the student to a better understanding and appreciation of the Scriptures as the divine revelation of the righteous and loving will of God for men, and of the only true way of salvation. The providence of God as evidenced in history is emphasized. The cultivation of devotional habits is enjoined. All students are urged to remember that the Bible is the source-book in all these courses, and that whatever textbooks are used are intended merely as supplemental to the Bible itself and explanatory of it.

We use the American Revised Version, Standard Edition. These courses are integral parts of every "Group of Studies" given at Hope College, and credit is given for them on a par with all other courses. All students, including specials, are required to take them. The courses are given two hours per week for one semester. No course is scheduled for Seniors because they are required to take "Evidences of Christianity," as outlined under the head of the Department of Philosophy.

#### 1. Life and Times of Jesus.—Freshman Year.

This course begins with a study of the religious, social and political conditions of Palestine in the time of Christ, and a consideration of other introductory matter related thereto. The Life of Christ is studied as found in the four Gospels of the New Testament. For convenience, A Harmony of the Gospels for Historical Study, by Stevens and Burton, is used. The textbook for this course is Stevens and Burton, Harmony of the Gospels; Davis, Dictionary of the Bible.

#### 2. The Acts and the General Epistles.—Sophomore Year.

The founding of the Christian Church is traced in the book of The Acts, and some of the problems of the early church, as they are presented in this book and in the General Epistles, are studied. The inspiration of apostolic example and the rich presentation of practical truth are emphasized. The textbooks used

are The Acts and The General Epistles, by Rev. Charles R. Erdman, D. D.

### 3. History of the Hebrews.—Junior Year.

In this course the Old Testament history is rapidly reviewed and continued up to the destruction of Jerusalem by Rome in 70, A. D. This is accomplished by analyzing the lives of the successive great characters in Hebrew history, rather than by studying the chronological narrative of the nation as such. The textbook used is Leaders of Israel, by Rev. Geo. L. Robinson, Ph. D., D. D.

### 4. Teaching of Christ and the Apostles.—Senior Year.

This is an elective course, open to Seniors only. It consists of an inductive study of the teachings of Christ and the apostles, upon the basis of the New Testament documents: the findings to be compared with the historic creeds of the Christian church. Second semester: 3 hours.

## BIOLOGY

The biological laboratories are fully equipped with materials, apparatus, and reagents to give all courses. There are 29 compound microscopes, a rotary microtome, two sliding microtomes, chemical balance, drying ovens, hot water baths, Lillie bath, electric incubator, autoclave, arnold clinostat, kjeldahl apparatus, complete human skeleton, and anatomical models. The plant room, aquaria, and cage rooms furnish living material for study. The store room and museum contain useful material for the study of comparative anatomy. The dark room is equipped for photography and light reactions. The departmental library is provided with several hundred modern texts, reference books and journals. All courses are elective. Breakage fee, \$5.00 per course.

The following courses are given advanced credit in Rush Medical Schools and other University Medical Schools, where the courses correspond: Biology 3 equals 1½ Majors; Biology 10 equals 2 Majors; Biology 8 equals 1 Major.

1. Morphology, Physiology and Ecology of Flowering Plants.—Analysis of plants and their identification by use of key and flora; preparation of herbarium of twenty-five specimens. Gross and microscopic anatomy of plant tissues with the use of dissecting instruments and compound microscopes. Preparation of microscopic slides. Laboratory notebook with gross and microscopic anatomy plates and experimental physiology of plants. Second semester: Recitations, 2 hours; Laboratory, 4 hours. Laboratory fee, \$2.50.

2. **Invertebrate Zoology.**—Morphology, physiology and embryology of invertebrate types; practice in preparing and mounting tissues for microscopic study. Students are encouraged to field work, to identify species and make collections. In addition to the gross dissection of the specimens, opportunity is given for preparing slides of the smaller organisms and selected tissues. Prerequisite to Biology 4. First semester: Recitations, 3 hours; Laboratory, 4 hours. Laboratory fee, \$5.00.

3(a) **General and Pathogenic Bacteriology.**—Morphology and Physiology and Protophyta and Protozoa; micro-biology of human and animal diseases, of water, soil, sewage, milk and dairy products. Chemical products of bacteria and chemical changes induced by bacteria; the relations of bacteria to fermentation and decay. Principles of pasteurization, sterilization and disinfection; their practical application. Bacteria and diseases. Immunity. Sources of infection and methods for prevention. Etiology of the principal infectious diseases. Some attention is given to the pathogenic protozoa. Text: Jordan's General Bacteriology. Second semester: Recitations, 3 hours.

3(b). **A Laboratory Course in Pathogenic Bacteriology.**—This is the same course as given in the best medical schools. About forty pathogenic and non-pathogenic bacteria are studied; inoculations in all the ordinary media; permanent slides of each; technique for ordinary and gram staining for differentiating the capulated, flagellated and spore containing species, for hanging-drop preparations, for plating and fermentation tests, for precipitation and agglutination tests. Manual: Heineman's Laboratory Guide in Bacteriology. Second semester: Laboratory 120 hours. Laboratory fee, \$10.00.

4(a). **Vertebrate Zoology.**—Morphology, physiology, and embryology of vertebrate types. Outlines of the History of Biology. Introduction to the theory of evolution and other theories. Dissection of Skate or Dogfish, Frog, with demonstrations of the Turtle and the Bird. Second Semester: Recitations, 2 hours; Laboratory, 4 hours. Laboratory fee, \$5.00.

4(b). **Vertebrate Zoology.**—Morphology, physiology, and advanced course for pre-medical students and those taking Course 8, in Vertebrate Embryology. It may be taken at the same time as 4(a), and is a prerequisite to Course 8. A complete dissection of the Cat or Rabbit is required. Texts: Kingsley's Comparative Anatomy of Vertebrates; Harvard Outlines for Vertebrate Dissections; Davidson's Anatomy of the Cat; Bensley's The Rabbit. Second Semester: Recitations, 1 hour; Laboratory, 2 hours. Laboratory fee, \$3.00.

5. **Cryptogamic Botany.**—Morphology, physiology and ecology of spore plants. A study of representative types of lower forms of plant life—algae, fungi, mosses, liverworts and ferns. Attention is given to the following topics: Development, reproduction, classification, cytology, Mendelism, evolution and variation in plants, as well as to fungous and bacterial diseases of plants, the relation of bacterial diseases of plants, the relation of bacteria, yeasts and moulds to the soil to decay and fermentation, and to the industries. First semester in alternate years: Recitations, 2 hours; Laboratory, 4 hours. Laboratory fee, \$5.00.

6. **Human Anatomy, Physiology, Hygiene and Sanitation.**—An advanced course in human anatomy and physiology and the application of these principles to the laws of hygiene and sanitation. A study of personal, domestic and public conditions essential to health. Practical work in the laboratory in anatomy, physiology, histology, and hygiene. Great emphasis is laid upon the study of the cell.

For those taking the pre-medical course especial work is offered in anatomy, histology and elementary chemical physiology. Recommended to Freshmen and Sophomores and should precede Courses 3, 4, 7, 8, 9 and 10. First semester: Recitations, 3 hours; Laboratory, 4 hours. Laboratory fee, \$5.00.

7. **Genetics.**—A study of the theories of Variation, Heredity and Mendelism, and their relation to animal breeding, and to eugenics. A study of the principles of development and other biological theories.

This course is open to all students, but is not accepted as a required course in the Natural Science group, except when it is preceded by Courses 2 and 6, or 4 and 6, or 1 and 5. Second semester: Recitations, 3 hours; no laboratory.

8. **Vertebrate Embryology.**—The lectures deal in a comparative way with the development of vertebrates. Especial emphasis is laid upon the study of the human embryo, chick, and pig. The laboratory work consists of the technique of preparing, and the study and sketching of permanent microscopic slides of the chick and pig embryos. Whole mounts and serial sections are prepared. Slides of the human embryo are studied and sketched. Texts: Bailey and Miller's Text Book of Embryology, Lillie's Embryology of the Chick and Pig. Second semester in alternate years. Recitations, 3 hours; Laboratory, 120 hours. Laboratory fee, \$10.00.

9. **Microscopic Anatomy.**—A practical course in the technique of preparing permanent slides of biological material. Selected material from plants or animals is prepared and studied and sketches made. Research methods are employed. Second semester: Laboratory only, 120 hours. Laboratory fee, \$10.00.



10(a). **Chemical Physiology.**—This course includes an advanced study, theoretical and practical, of fats, carbohydrates, and proteids; of the digestive juices and digestion. Text: Mathew's Physiological Chemistry. First semester: Recitations, 3 hours; Laboratory, 120 hours. Laboratory fee, \$10.00.

10(b). **Chemical Physiology.**—This course includes the study of the blood, milk, bile, muscle, bone, nervous tissue, normal and pathological urine. The laboratory work includes the study of tissue preparations, blood and bile, also a complete qualitative and quantitative analysis of urine is made upon high and low protein diet. A Kjeldahl determination of total nitrogen in urine is made, and Folin's method for determining ammonia is applied. Second semester: Recitations, 2 hours; Laboratory, 120 hours. Laboratory fee, \$10.00.

11. **Advanced Physiology and Ecology of Flowering Plants.**—Ecology is treated from the morphological and physiological standpoints. Attention is called to the modifications which adapt plants to their environment. Laboratory work in experimental plant physiology; field work in ecology. First semester: Recitations, 2 hours; Laboratory, 4 hours. Laboratory fee, \$5.00.

12. **Bacteriology.**—A laboratory course dealing with the bacteriological examination of water, milk and sewage. Second semester: 4 hours. Laboratory fee, \$10.00.

13. **Systematic Botany.**—The collection and identification of the common seed plants and ferns in the vicinity of Holland. A study of the characteristics of the great groups. Facility in using keys, floras, and manuals, for the recognition of plants. Recitations, 1 hour; Laboratory, 8 hours. Laboratory fee, \$5.00. Second semester.

## CHEMISTRY

The courses in this department aim to give the student not only a knowledge of scientific methods, but also a cultural training. The lecture and recitation work is supplemented by a laboratory course which aims to give the student skill in manipulation and a familiarity with the methods of reaching scientific results. Individual work is required in the laboratory. The equipment of the inorganic, quantitative, and organic laboratories is very complete. Breakage fee, \$5.00 per course.

1. **General Inorganic Chemistry.**—Classroom, three hours a week; Laboratory, four a week. First semester, Freshman year. Laboratory fee, \$3.50.

1 a. **General Inorganic Chemistry.**—For students who have had preparatory Chemistry. Prerequisites: one year of preparatory Chemistry and one year of preparatory Physics. First

semester, Freshman year. Class room, three hours a week; Laboratory, four hours a week. Laboratory fee, \$3.50.

2 a. **General Inorganic Chemistry.**—(A continuation of Course 1a). Second semester, Freshman year. Classroom three hours a week; Laboratory, four hours a week. The laboratory work during the last half of this course will consist of a study of the reactions of the various metals and their salts as presented in Baskerville and Curtman's Qualitative Analysis. Laboratory fee, \$3.50.

3. **Qualitative Analysis.**—Classroom, two hours; Laboratory, six hours. First semester, Sophomore year. This course includes a discussion of the principles of analysis, having special regard to theory of electrolytic dissociation and the law of mass action; basic and acid analysis of simple substances, and the systematic analysis of unknown compounds and complex mixtures. Laboratory fee, \$10.00.

6. **Quantitative Analysis.**—(Introductory Course.) Classroom, one hour a week; Laboratory, six hours a week. Second semester, Sophomore year. Prerequisites: Courses 1, 2 and 3. This course includes: (a) Gravimetric Analysis. A study of the chemical balance gravimetric methods of analysis, reactions, theories of analytical chemistry and stoichiometry duplicate determinations of iron in an iron wire, and silver and copper in a dime. (b) Volumetric Analysis. The calibration of two burettes and pipette; volumetric determination by precipitation, by neutralization, by oxidation and reduction; and the exact preparation and use of standard solutions. Laboratory fee, \$6.00.

4. **Organic Chemistry.**—Classroom, three hours a week; Laboratory, four hours a week. First semester, Junior year. This course includes a study of the marsh gas series and the unsaturated compounds. The laboratory work deals with synthetic preparations. Laboratory fee, \$6.00.

5. **Organic Chemistry.**—(Continuation of Course 4.) Classroom, three hours a week; Laboratory, four hours a week. Second semester, Junior year. A course dealing with the aromatic series of the hydro-carbons and their synthetic preparation in the laboratory. Laboratory fee, \$6.00.

Courses 7 and 8 are open only to those who have done a high grade of work in the previous courses, and who are willing to render service as a laboratory instructor during their Junior and Senior years. The consent of the Head of the Department is to be secured before registering for either of these two courses.

7. **Quantitative Analysis.**—Laboratory, ten hours a week. First semester, Senior year. This course includes the duplicate analysis of barium chloride, zinc sulphate, dolomite and spathic iron ore, and other special problems. Laboratory fee, \$7.50.

8. **Quantitative Analysis.**—Laboratory, ten hours a week. Second semester, Senior year. This course will be arranged to meet the needs of the individual student and may include:

(a) Water Analysis. (b) Analysis of Soils. (c) Chemistry of Food. (d) Special Analysis. Laboratory fee, \$7.50.

9. **The Teaching of Chemistry.**—Through the recommendation of the Head of the Department, and with the approval of the Course Committee, a limited number of students who have done meritorious work may elect this course during their Junior or Senior years. The course offers practice teaching and experience in the care and management of a laboratory. Four or six hours service a week. One semester hour credit for two hours service, total credit not to exceed six semester hours under any circumstances.

## DUTCH

The study of the Dutch Language and Literature is of great value in itself, but especially for students who expect to serve the people in our Dutch settlements. The Holland language is still used in many homes, and also in the meetings of many of our Reformed churches, east and west.

Our aim is to enable the student to use the language correctly in speaking and in writing, to acquaint him with the best literature written in the Dutch language and with the history of the Netherlands.

The courses are open to all college students.

1. **Beginner's Course.**—Introductory exercises. Grammar and reading. Essays. Textbooks: Terwey's *Korte Nederlandsche Spraakkunst en Oefeningen*; J. P. De Keyser's *Een Bleomkrans* (selections). First semester.

2. **Grammar, Reading and Composition.**—(Course 1, continued.) Textbook added: Boswijk en Walstra's *Het Levende Woord*, I. Second semester.

3. **History of the Netherlands.**—Textbook: Van Ripsen's *Geschiedenis des Vaderlands*. Essays on historical subjects. First semester.

4. **History of Dutch Literature.**—Textbook: J. Appeldoorn en Dr. W. F. Van Vliet's *Nederlandsche Letterkunde*. Supplemented by a course in reading of De Genestet and Staring. Essays on literary subjects. Book reviews. Reading in *Vondel* (*Lucifer*, *Leeuwendalers*), *Bilderdijk* (*Elius*, *Een Ode aan Napoleon*), *De Costa* (*Wachter en Vijfentwintig Jaren*). Writing of one or more orations. Second semester.

5. **Reading and Composition.**—Textbooks: Boswijk en Walstra's *Uit onze Beste Schrijvers*; Kroenen's *Uit onzen Taalschat*, III. Essays and orations. First semester.

6. **Course 5 continued.** Supplemented by reading of *Classics*. Second semester.

## EDUCATION

The courses offered in this department are intended especially to prepare teachers for secondary schools. However, the work fits in conveniently with the courses offered in other departments of the college and will prove helpful to students who plan to enter the ministry or to engage in social work. Special efforts are made by the Appointment Committee to secure positions for graduates who have shown special aptitude for teaching.

1. **General Psychology.**—(See Philosophy and Psychology, Course 1.) Prerequisite to all courses in Education. Four hours.

2. **Educational Psychology.**—A study of the psychological principles applied to the learning process. Special attention is given to experimental work in Education. Junior and Senior. Second semester. Three hours.

3. **Principles of Teaching.**—This course includes a study of the aims of education and the principles applied in instruction, with special reference to methods of teaching in High Schools. Observation work and practice teaching is connected with this course. First semester. Three hours.

4. **History of Education.**—Ancient. Special attention is given to those historical agencies which have influenced the organization, method, content, and results in the education of the various peoples. Junior and Senior. First semester. Three hours.

5. **History of Education.**—Medieval and Modern. A continuation of Course 5. Emphasis is given to the development of modern systems in the various countries, and especially in the United States. Junior and Senior. Second semester. Three hours.

6. **Secondary School Problems.**—This course deals with the various High School activities and the problems the teacher meets, such as aims of secondary education, evaluation of subjects, classroom teaching, socialized recitation, student social activities, student government and the social demands upon a High School education. Senior. Second semester. Three hours.

7. **School Supervision and Administration.**—This course deals with educational aims and forms of control, maintenance and support, courses of study, school boards, types of buildings, textbooks, engaging teachers, efficiency in work, measurements of results, graduation, promotions. Junior and Senior. Second semester. Three hours.

8. **Social Aspects of Education.**—This course treats of the relations of the individual to society, to other socializing

institutions and social aims and activities of the school. Senior. First semester. Two hours.

9. **Child Psychology.**—A study of children from the psychological and pedagogical point of view, with special emphasis upon their power and ability to learn in the various periods, including discussions of supernormal, normal and subnormal development. Senior. Second semester. Two hours.

10. **Practice Teaching.**—This work is done in the Preparatory Department under the combined direction of the Head of the Department of Education and the Head of the Department in which the teaching is done. Opportunities are also offered at various times to supply in the local public schools. Senior.

11. **Colonial Education.**—An advanced course for students capable of doing individual work in Early American Education. Senior. Second semester. Two hours.

12. **Class Room Management.**—This course deals with practical problems confronting the teacher in the class room. Special attention will be given to the different phases of the recitation, its machinery and process, with reference to the student as the object, and the results attained. Senior. Second semester, three hours.

Courses 2-6 inclusive are required in this department.

It is recommended that all students desiring to secure a State Teacher's Certificate complete Course 6 in the Biological Department entitled, Sanitation and Hygiene.

#### **Rules Governing Those Who Wish to be Recommended for the State Teacher's Certificate**

1. Students are required to obtain twenty-two hours credit in education. Courses 2 and 3 are required, but Course 1 is not accepted.

2. A student must average 85 per cent throughout his college course. (Vote of the Faculty, November, 1912.)

3. A minimum of six weeks of observation work is required. This work may be done in the Preparatory School or the local High School. The minimum for teaching is nine weeks.

4. A thesis will be required from each applicant for this certificate.

5. Seniors must satisfy the Appointment Committee concerning their ability and fitness for teaching.

### **ENGLISH**

1. **Rhetoric and American Literature.**

(a) **Rhetoric.**—A comprehensive study of the basic principles of composition with abundant practice in writing, especially in exposition and argumentation. First semester. Three hours.

(b) **American Literature.**—A study of the development of

American literature from 1607 to 1840, accompanied with analysis of a variety of illustrative work and wide supplementary reading. First semester. Two hours.

2. Rhetoric and American Literature.

(a) Rhetoric.—Continuation of Course 1 (a). Emphasis on description and narration. Second semester. Three hours.

(b) American Literature.—Continuation of Course 1(b). Covers the period from 1840 to the present time. Second semester. Two hours.

4. English Literature and Rhetoric.

(a) Literature.—A brief survey of the development of English literature from Anglo-Saxon times to the beginning of the Restoration. Reading lists and oral and written reports. First semester. Two hours.

(b) Rhetoric—Short Story.—Detailed study of the principles of description and narration, with practice in writing a short story, and supplementary reading of representative short stories. First semester. Three hours.

(c) Rhetoric—Argumentation.—Detailed study of the principles of argumentation with practice in brief making, written forensic, and formal debate. First semester. Three hours.

5. English Literature and Rhetoric.

(a) Literature.—Continuation of Course 4 (a). A brief survey of the history of English literature from the Restoration to the modern period. Second semester. Two hours.

(b) Rhetoric—Some Modern Types of Writing.—Analytical study of the best types of present-day writing, outside the field of the short story—essay, editorial controversial article, etc. Practice in composition, and supplementary reading in the best current periodicals. Second semester. Three hours.

(c) Rhetoric—Forms of Public Address.—A study of the application of the principles of composition to the forms of public address—letters, editorials, eulogy, commemorative addresses, dedications, inaugurals, speeches of welcome and of farewell, legislative and political addresses, after dinner speeches, etc. Practice in writing several types determined upon by the student and the instructor. Second semester. Three hours.

6. The Lake School of English Poetry.—Special reference to William Wordsworth. Four hours. (Not to be given 1926-1927.)

7. The Development of Drama.—A study of the Greek and Roman tragedies and comedies, the medieval mystery and morality plays in France, Germany and England, and the development of the modern drama down to the present time. First semester. Four hours.

8. The Elizabethan Drama.—Special reference to the plays of Shakespeare. Junior. Second semester. Four hours.

9. **Alfred Tennyson.**—Second semester. Four hours.
10. **Browning.**—Senior. First semester. Four hours.
11. **James Russell Lowell.**—We trust no apology is necessary for announcing a course in the study of one of America's chief poets and critics. The aim of the course is to inspire patriotic pride as well as to point out esthetic values. First semester. Four hours. (Not given 1925-1926.)
12. **John Milton.**—Junior. First semester. Four hours.
13. **Romantic Poetry.**—The object of this course is to familiarize the student with the Romantic movement in English literature, to ascertain the rationale of this phenomenon, and to trace the different aspects and exhibitions of this movement as found in the poets Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Hood, Landor and others. Juniors and Seniors. First semester. Three hours.
14. **College English Grammar.**—With the firm belief that English Grammar does not receive the attention it deserves in the Primary and Secondary grades of the public schools, and that, as a consequence, such as intend to teach English should have a thorough review of this subject, this course is offered to Seniors. First semester. Two hours.

## FRENCH

Four years of French are offered with a view of obtaining a correct pronunciation, thorough knowledge of construction, and the ability to translate and appreciate the best French writers. A study is made of the leading movements in the history and development of French literature, and of the characteristic works of the principal authors. Composition, dictation, memorizing, and conversation in French are employed throughout the course.

1. **Beginners' Course.**—Grammar and composition exercises, oral drill, with careful attention to pronunciation according to the phonetic symbols. First semester. Five hours.
2. **Course 1 Continued,** leading to selected fiction and lyrics, principally from Daudet and Hugo, with exercises in conversation and composition based on the literature read. Second semester. Five hours.
3. **A Rapid Survey** of the whole field of French literature, with an anthology and outline, giving special attention to certain groups and movements, as *La Pléiade*, *les Encyclopédistes*, *Classicism*, *Romanticism* and *Realism*. First semester. Five hours.

### Second Year French

4. **The Drama of the Seventeenth Century.**—*Corneille*, *Molière*, *Racine*. The reading in class and by individual assignments of the principal plays of these authors. Lectures on the

development of the French drama. The influence of the Hotel Rambouillet. First semester. Five hours.

### Third Year French

5. **The Eighteenth Century.**—Voltaire, Rousseau, Diderot, and Beaumarchais. A study of the age called by the name of Voltaire, with an endeavor to find in literature the forces that led up to the French revolution. First semester. Five hours.

6. **French Romanticism to French Realism.**—A study of the writing of Lamartine, Musset, Vigny, Hugo and Balzac. Second semester. Five hours.

### Fourth Year French

7. **French Prose Fiction.**—A critical study of the short story, illustrated by such writers as Coppée, Bazin, Mérimée, Daudet and Maupassant, to be followed by the analysis of several of the leading novels of modern French authors. First semester. Five hours.

8. **The Modern Drama.**—A critical study of the best plays produced for the French stage from the time of Augier and Dumas Fils down to Sardou, Hervieu and Rostand. Second semester. Five hours.

## GERMAN

The aim of the department is to give the student the ability to read German intelligently. To gain this end the study of the grammatical fundamentals is made as complete as possible. Composition, translation, dictation, memorizing and conversation are used in all courses. A study is also made of the lives of the great men of letters, together with the great literary movements, in the hope that the student may become interested in the literature and institutions of the German people.

1. **Beginners' Course.**—A study of Grammar, memorizing of many poems and songs, and frequent exercise in composition. First semester. Five hours.

2. This course is in the main a continuation of Course 1. During the latter part of the semester classics are read, chosen from the works of Storm, von Wildenbruch, and Gerstäker. Conversation and composition are based upon the classics read. Second semester. Five hours.

3. **General Reading Course.**—Reading from the works of von Hillern, Riehl, Baumbach and Heine. A study is made of the German "Novelle" and through outside reading and reports, the students are made familiar with the best stories of this type. Composition and grammar review. First Semester. Five hours.

4. **Introduction to German Drama.**—Works by Lessing, Schiller, and Freytag form the basis for this study. Outside



reading gives the origin of the German theater and their influence on literature. Second semester. Five hours.

5. An introduction to Goethe.—An endeavor will be made in this course to secure some appreciation of the greatest of German authors. Hermann and Dorothea, some portions of the *Dichtung und Wahrheit*, and some drama will be read. The lectures will take up the life of Goethe and a consideration of his work with reference to the German people. First semester. Five hours.

6. A Survey of German Literature.—A study will be made of the development of the literature of Germany from the time of the *Nibelungenlied* to the present. Lectures, outlines and reports will be used to present the material. Second semester. Five hours.

## GREEK

1. **Beginners' Course.**—Textbook: White's *Beginners' Greek Book*. Methods of study; word lists and inflections. Translations. English-Greek; Greek-English. First semester. Five hours.

2. Completion of Course 1. Second semester. Five hours.

3. **Xenophon.**—*Anabasis*, Books 1 and 2. Review and application of the principles of syntax and inflection. First semester. Five hours.

4. Completion of Course 3.—*Anabasis*, Books 3 and 4. Second semester. Five hours.

5. **Historical Prose Writers.**—Xenophon, *Hellenica*, Books 1-4. Thucydides, selections. The style, method and aim of the Greek historians are studied, together with a review of the important facts of Greek history. First semester. Five hours.

6. **The Greek Orators.**—Lysias: *Against the Grain Dealers*, *Against Diogetion*, *For Mantiheus*, *Against Arastosthenes*, *On the Sacred Olive*. Notes on the style of Lysias and his place in the development of Greek prose. Second semester. Five hours.

7. **Homer.**—*Iliad* and *Odyssey*, selections. The life and times of Homer, his place and influence. Notes on Epic poetry. First semester. Five hours.

8. **Comedy and Tragedy.**—Aristophanes' *Clouds*. Sophocles' *Antigone*. Second semester. Five hours.

9. **Philosophy.**—Plato, *Apology of Socrates* and *Phaedo*.

10. **Demosthenes.**—The *Phillipics* and *Olynthiacs*.

11. **The History of Greek Literature.**

12. **The Greek New Testament.**—Second semester. Three hours.

13. **The Septuagint.**

14. **Aristotle.**—The *Ethics*.

Courses 8, 9, 10, 11, 13, and 14 will be given when classes can be arranged.

## HISTORY

The following courses are planned to give the students an introduction to the large field of European and American history. They are intended to awaken the historical imagination and to impart that culture and information which are so useful in the student's later life of public service. Much emphasis is laid upon the rise and development of modern states, their institutions and their problems. The library and textbook methods are combined in all the courses.

1. **The History of Europe from the Reformation to 1815.**—The religious reformation, the Age of Louis XIV, and the French Revolution. The lectures of the first few weeks are devoted to some preliminary problems, such as the Rise of the Church and the Papacy, the Holy Roman Empire, Feudalism, the Renaissance, etc. First semester. Four hours.

2. **The History of Europe Since the Vienna Congress (1815).**—The development of the modern states and their constitutions. Second semester. Four hours.

3. **The Political and Constitutional History of England.**—To the Puritan Revolution. The emphasis is placed upon the origin and the development of the Constitution. First semester. Four hours. Open to Juniors and Seniors and to others by permission.

4. **The Political and Constitutional History of England.**—From the Puritan Revolution to the Great War. Second semester. Four hours. Juniors and Seniors.

5. **History of American Diplomacy.**—A survey course covering the whole field. First semester. Four hours. Juniors and Seniors.

6. **History of the United States, 1789-1865.**—The emphasis is placed upon the diplomatic and the constitutional history of the period. First semester. Four hours.

7. **History of the United States Since the Civil War.**—Second semester. Four hours.

8. **Lectures on Some Problems of Modern Times.**—Second semester. One hour.

9. **Teachers' Course.**—This course is designed to assist those who plan to teach History in Junior or Senior High Schools. Two hours. Second semester. Seniors.

## LATIN LANGUAGE AND LITERATURE

Students who wish to qualify properly as teachers of Latin and desire a special recommendation from the head of the department should plan to study three years of Latin in the College, inclusive of the Teachers' Course. The following courses are offered for the year 1924-1925:

1. **Cicero.**—*De Amicitia* or *De Senectute.*—Complete study of the life of Cicero. Written translations. Prose composition

and syntax. Gildersleeve's Latin Composition. First semester. Freshmen.

2. *Livy*—Books XX and XXII.—Careful study of the history of Rome during the Punic Wars. Study of the periods of Roman Literature. Frequent written translation from Latin into English. Prose composition and syntax. Gildersleeve's Grammar and Latin Composition. Second semester. Freshmen.

3. *Horace*—Odes and Epodes or Satires and Epistles, with special reference to the *Ars Poetica*. Prose composition and syntax. Gildersleeve's Latin Composition. Sophomores. First semester.

4. *Tacitus*—*Germania* or *Agricola*.—History of Rome under the Empire. Prose composition and syntax. Gildersleeve's Latin Composition. Second semester. Elective.

5. *Roman Comedy*—*Plautus* or *Terence*.—Study of the development of the drama; the influence of Greek drama upon Rome. Latin comedy, Roman theater, and production of plays. Gildersleeve's Latin Composition. Second semester. Elective. Juniors and Seniors.

6. *Elegiac Poetry*—*Propertius*.—History of the Elegy. Gildersleeve's Latin Composition. Second semester. Elective. Juniors and Seniors.

7. *Roman Philosophy*—*Moral Essays of Seneca*.—Study of Roman philosophy with special reference to Stoicism: Assigned readings. Papers and discussions by the class. One hour a week will be devoted to a systematic study of Roman literature on the basis of *Bender's Roman Literature*. First semester. Elective.

8. *Roman Satire*—*Juvenal*.—Study of the history and development of Roman Satire. Social life of Rome under the Empire. One hour a week will be devoted to a special study of Roman public and private life. Second semester. Elective. Two hours.

9. *Teachers' Course*.—Careful study of the methods of teaching Latin. Lectures on the methods of criticising translations and on the fundamental principles of translation. Methods of teaching Latin Prose Composition. Attention is given to

## MATHEMATICS

1. *Solid Geometry*.—Complete course, including study of the sphere. Much original notebook work required on problems and originals. Should be taken by all Freshmen who do not offer it as an entrance credit. Required for Trigonometry. First semester. Four hours credit.

2. *College Algebra*.—This course gives a brief but thorough review of elementary principles, a study of determinants, binomial theorem, logarithms, progressions, series, and theory of equations. One and a half years of high school algebra are

required for admission. Those who have had only one year of algebra must recite two hours extra per week covering the work of the advanced algebra. First semester. Credit, four hours.

3. **Trigonometry.**—Plane and Spherical. Twelve weeks of Plane and six of Spherical. Prerequisites: Academic Algebra and Plane and Solid Geometry. Emphasis on applications to review of Latin Grammar and Syntax. Reports and discussions by the class. Required of all Juniors and Seniors who later wish a recommendation as teachers of Latin. Second semester. Surveying, Navigation, and Astronomy. Second semester. Credit, five hours.

4. **Analytical Geometry.**—Prerequisites: Courses 1, 2 and 3. A study of rectangular, oblique, and polar co-ordinates, loci and their equations of the straight line, circle, parabola, ellipse, and hyperbola, with a brief introduction to Solid Analytics and Higher Plane Curves. First semester. Credit, five hours.

5. **Calculus—Differential.**—Prerequisites: Courses 1, 2, 3 and 4. Fundamental principles developed by methods of rates and increments, infinitesimals, maxima and minima, Taylor's and Maclaurin's Formulas, Series, etc. Emphasis on applications to Physics and Astronomy. Second semester. Credit, five hours.

6. **Plane Surveying.**—Prerequisites: Geometry and Trigonometry. A course in field work involving actual problems in surveying, leveling, use of tape, chain, etc.; plotting, field notes, and a map from a personal survey of an irregular piece of land. References: Barton's Plane Surveying and Johnson and Smith's Surveying. Second semester. Credit, three hours.

7. **Astronomy.**—Descriptive. A non-mathematical course covering the general principles and theories of the heavenly bodies; their distances, motions, and mutual relations; tides, eclipses, and a review of the modern doctrines of the universe in the light of modern astronomy. Not open to Freshmen. A knowledge of Trigonometry is required. Second semester. Credit, two or three hours.

8. **Calculus—Integral.**—Continuation of Course 5. Expected of all students specializing in science, and required of those majoring in Mathematics. First semester. Credit, three hours.

9. **Differential Equations.**—Review of the Calculus and a study of the types of simple differential equations. Also, a brief review of college mathematics. Second semester. Credit, two hours.

For the course in Astronomy, besides the observatory containing a reflecting telescope, one hundred beautiful slides from Yerkes Observatory covering the field of Astronomy, and a Radium Star Map are available.

## PHILOSOPHY

1. **General Psychology.**—Junior year. First semester. Four hours.

This course is chiefly concerned with normal adult, human psychology, and is intended as a series of fundamental studies preparatory to more advanced work in the main and subsidiary branches of this science. Such time as is available is devoted to simple experimentation and to supplemental reading from standard authorities.

2. **Ethics.**—Senior year. First semester. Four hours.

A general introductory course in the philosophy of the moral life. The more important historic theories of morality are analyzed, compared and criticized. The first half of the course deals with the study of the development and theory of morality, and the second half is devoted to a consideration of the practical problems of personal and public morality. Supplemental reading from standard authorities is assigned as time allows.

3. **Problems of Philosophy.**—Senior year. First semester. Four hours.

This course is designed for beginners in the subject of pure philosophy and takes up the fundamental problems, ontology, mind, cosmology, epistemology, morality, and religion. That the human intellect is a blind alley, and that life is a venture of faith, are facts which this course is meant to emphasize.

4. **History of Philosophy.**—Second year. Four hours.

In this course the development of philosophic thought from ancient to modern times is studied, and an effort is made to familiarize the student with the more important philosophers and their theories of the universe.

5. **Evidences of Christianity.**—Senior year. Second semester. Four hours.

This course begins with a consideration of the Christian View of the World and its superiority to pantheism, materialism, agnosticism, and evolution. The course continues with a study of Jesus Christ as the supreme evidence of Christianity, shown by the synoptic picture of Jesus and its meaning, and Christ as spiritual creator and practical idealist. The question of the historicity of the miracles of Christ is considered carefully, and, in order to show the general weakness of positions of doubt, the naturalistic explanations of the resurrection of Christ are analyzed and refuted in detail. The course closes with a study of the evidence of Christian experience and Christian history. The aim is to send out every senior fully convinced of the ability of Christian claims to stand successfully the test of scientific investigation. While no effort is made to explain by logic and reason divine truths which transcend the powers of the human mind, yet an attempt is made to show how human objections,

based on logic and reason, can be adequately refuted by the same weapons.

## PHYSICS

The courses in Physics are designed for students who seek a general knowledge of the subject, as well as for those who desire to follow the progress of this and other sciences in their theory and application.

General Physics presents the fundamental facts of physics together with the relation of these fundamental facts to basic laws and principles. Breakage fee, \$5.00 per course.

1. **General Physics.**—Mechanics of solids and liquids, Molecular Physics and Heat. Recitation, four hours; laboratory, two hours. Must be preceded or accompanied by Mathematics 3. First semester. Laboratory fee, \$5.00.

1a. A two-hour course in laboratory work in Mechanics, Molecular Physics, and Heat, which may be taken with Course 1.

2. **General Physics.**—Magnetism, Electricity, Sound, and Light. This course is a continuation of Course 1, and must be preceded by it. Second semester. Laboratory fee, \$5.00.

2a. A two-hour course in Magnetism, Electricity, Sound, and Light, accompanying Course 2

## POLITICAL AND SOCIAL SCIENCE

A course is offered each year in Political and Social Science. The text work is supplemented with observational and investigative work with the idea of awakening the mind to the facts and problems of political, economic, and social life.

1. **Political Economy.**—Detailed reports on the financial, labor, grain, produce, and livestock markets; analysis of government, bank, fiduciary, and trade reports and statements; historical survey of the development of the idea of value.

2. **Political Science.**—The history of the growth of states, with especial reference to the United States Constitution. Investigation of the development of the principles of International Law.

3. **International Law.**—An elementary study of the principles of international comity. (By arrangement.)

4. **Social Science.**—Studies in the social group. An investigation of modern urban and rural conditions as they affect the body of the nation. Especial emphasis is laid upon the ethical aspect of social conditions. (By arrangement.)

5. **City Government.**—A study in modern city government. The Aldermanic System; Commission Government; City Managers; Charters; Home Rule; the State and the City; Public Utilities and the City; Budgets and City Accounting. (By arrangement.)

## PUBLIC SPEAKING

The courses in Public Speaking include the study of the speaking voice; the various requirements for proper conduct on the platform and in the pulpit; the laws and principles of enunciation, pronunciation, phrasing, emphasis, melody, tone color and cadence. A thorough drill is given in the difficult art of reading aloud both prose (including the Bible) and poetry. Speeches and orations are written and delivered by the students, which are subject to careful criticism by the instructors. Impromptu and extempore speaking are emphasized in the Senior year.

A four years' hour course is required from all Divinity, Latin, and Education students, while all others are required to take the course in the Senior year. One credit per hour is given.

Private lessons may be had at reasonable rates.

# THE PREPARATORY SCHOOL

## ADMISSION

Pupils holding an "Eighth Grade Diploma" of an accredited public school will be admitted to the "D" class without examination; while applicants who do not have such certificate will be subject to a strict examination in the common school branches—Arithmetic, English Grammar and Composition, United States History, Geography (not including Physical), Reading and Orthography. The examinations will be graded according to the requirements of the aforesaid diploma.

Advanced standing may be obtained only after examination in all required subjects prerequisite to a given classification.

## GRADES AND REPORTS

The minimum passing grade is 70 on a basis of 100. Three failures (designated by "F") in the required subjects in the Preparatory School automatically drops a student into the class below. By this rule, students in the "D" class are suspended for the current year, unless they wish to continue in studies as specials, or without credit. All conditions (designated by "C") must be made up by the end of the first week of the second semester immediately succeeding the semester in which the "C" was received; failure to comply with this rule, automatically makes the "C" an "F," and subject to all the rules of failures regularly placed against a student's record.

A full statement of the student's record is mailed to his parents at the close of each semester.

## GRADUATION

A diploma of graduation is awarded upon the completion of sixteen units of work. The courses must be pursued as scheduled in the different groups. No diploma will be awarded for less than one year resident work immediately prior to the granting of the diploma.



## THE FACULTY

EDWARD D. DIMNENT, Litt. D., *President.*

JOHN B. NYKERK, Litt. D., *Dean.*

*Principal*—THOS. E. WELMERS  
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ANNE EIKENHOUT, A. B.  
*Instructor in French and English*

FREDA HEITLAND, A. B.  
*Instructor in English*  
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*Instructor in History*  
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GARRETT VANDER BORCH, A. B.  
*Instructor in Mathematics and Physics*  
236 Columbia Ave. Tel. 2795

ALBERT H. TIMMER, A. B.  
*Instructor in Greek and Latin*  
123 East 23rd St.

## ADVISORY BOARD

*Principal*—THOS. E. WELMERS  
MRS. DURFEE, MISS HEITLAND, MR. TIMMER

## DETAIL OF COURSES

### BIBLICAL LITERATURE

The aim of instruction in the following courses is to give the student a better knowledge of the historical contents of the Bible, along with such information as to the social, political, and religious conditions prevailing at the various periods as will lead to a more thorough understanding of the sacred narrative. The American Revised Version of the Bible, Standard Edition, is used as the source book, and A Manual of Bible History, by Rev. Wm. G. Blaikie, D. D., LL. D., is used as a supplemental textbook throughout the four years.

All Preparatory students are required to take the following courses, one hour per week, throughout each year:

1. The Pentateuch.—Manual, Chaps. 1-6—for "D" class.
2. Joshua, Judges, Ruth, I and II Samuel.—Manual, Chaps. 7-9—for "C" class.
3. I and II Kings, I and II Chronicles, Ezra, Nehemiah, Esther.—Manual, Chaps. 10-13—for "B" class.
4. Inter-testamental History of Palestine, Life of Christ, Apostolic History.—Manual, Chaps. 14-16—for "A" class.

### BIOLOGY

A year of Biology is required of all Preparatory students and is given in the "C" year. Twelve weeks of five hours per week are devoted to each of the following subdivisions of Biology: (a) Physiology and Hygiene; (b) Zoology; (c) Botany. Breakage fee, \$5.00 per course.

**Biology 1.**—Twelve weeks, Elementary Physiology and Hygiene; six weeks, Elementary Zoology. First semester. Three hours recitation, two hours laboratory. Laboratory fee, \$2.50.

**Biology 2.**—Six weeks, Elementary Zoology; twelve weeks, Elementary Botany. Second semester. Three hours recitation, two hours laboratory. Laboratory fee, \$2.50.

### ENGLISH

#### First Year

1. First Semester.—Five hours per week. Four hours devoted to a thorough review of formal grammar as preparation for further work in English and in foreign languages; one hour given to study of such fundamental classics as are suited to the student's comprehension. Text in Grammar: Kittredge and Farley's Concise English Grammar. Text in Literature: Old Greek Folk Stories. Additional supplementary reading of standard classics.

2. **Second Semester.**—A continuation of the first semester's work, substituting for Grammar the practical work in rhetoric, and further study of literature. Texts: Wheeler's Graded Literary Readers, No. 8. Eliot—The Mill on the Floss. Additional supplementary reading or standard classics.

#### Second Year

3. **First Semester.**—Five hours per week. Two hours devoted to study of rhetorical principles, with much practice in written and oral English; three hours given to a systematic study of the more important figures in American Literature, with selected readings. Texts—Effective English (Junior), Claxton and McGinnis. Pace, American Literature with Readings. Additional supplementary reading of at least four books in the field of American Literature, each semester.

4. **Second semester.**—A continuation of the first semester's work.

#### Third Year

5. **First and Second Semester.**—Five hours per week. One hour devoted to Rhetoric, with practice in written and oral English; four hours a week devoted to a systematic study of the chief figures in English Literature, with selected specimen readings and detailed reading of two classics a semester. Texts—Effective English by Claxton and McGinnis. English Literature, with Readings by Pace. Reading in classics chosen from the following list: *Midsummer Night's Dream*; *Romeo and Juliet*; *Julius Caesar*; *Macbeth*; *Wordsworth's Poems*; *Lamb's Essays*; *Carlyle's Essays*; *Selections from Early Ballads*; *Poems of Burns and Scott*. Supplementary reading of four books a semester, in addition.

6. **Second Semester.**—A continuation of the first semester's work.

7. **First and Second Semesters.**—Five hours a week, given to study of classics chosen from the following list: *Milton's minor poems*; *Carlyle*; *Ruskin's Sesame and Lilies*; *Tennyson's Idylls of the King*; *Selections from Spectator Papers*; *Bacon's Essays*; *Spenser's Faerie Queene*.

8. **Second Semester.**—A continuation of the first semester's work.

9. **Oral English.**—First semester. Five hours a week. A course designed to assist the student in giving efficient expression to the written thought of others and to his own ideas. Much training in enunciation and in prepared and extempore speeches is given.

10. **Grammar Reviews.**—Second semester. Five hours a week. A course intended for the English group to provide linguistic drill as a substitute for Latin.

## FRENCH

The aim of the French course in The Preparatory School is to give a good working knowledge of the language.

1. **Beginners' Course.**—A modified form of the Direct Method is employed. Careful attention is given to pronunciation by the phonetic system, and to conversation, and the memorizing of proverbs, short poems and prose selections. First semester.

2. A continuation of Course 1, with readings in easy French History. Second semester.

3. Review of pronouns and irregular verbs, weekly composition, reading of selected texts, with composition and oral exercises on the material that has been translated. First semester.

4. A continuation of Course 3, with especial attention to French idioms. Second semester.

## GREEK

1. **Beginners' Course.**—Textbooks: White's *Beginners' Greek Book*; Goodwin's *Grammar*. Methods of study; word lists and inflections. Translations: Greek-English, English-Greek. First semester.

2. Completion of Course 1.—Second semester.

3. *Xenophon.—Anabasis*, Books 1 and 2. Review and application of the principles of syntax and inflection. First semester.

4. Completion of Course 3.—*Anabasis*, Books 3 and 4. Second semester.

## HISTORY

1. *The Oriental Nations and Greece.*—"D" class. First semester. Required of all.

2. *The History of Rome.*—"D" class. Second semester.

3. *The History of England.*—Elective. First semester. 1924-1925.

4. *The History of England.*—Elective. Second semester. 1924-1925.

5. *Medieval European History.*—Elective. First semester. 1925-1926.

6. *Modern European History.*—Elective. Second semester. 1925-1926.

7. *American History and Civics.*

(a) *History.*—Three hours. Required of all. "B" class. First semester.

(b) *Civics.*—Two hours. Required of all. "B" class. First semester.

8. *American History and Civics.*

(a) *History.*—Three hours. Required of all. "B" class. Second semester.

(b) Civics.—Two hours. Required of all. "B" class. Second semester.

### LATIN

1. **Beginners' Course.**—A standard beginners' book is used throughout the year. Frequent reviews. *Fabulae Faciles*. Students especially deficient will receive individual attention. First semester.

2. **Continuation of Course 1.**—Second semester.

3. **Caesar's Gallic Wars.**—Books I-IV represent the requirement for the second year. Quality is in no way sacrificed for quantity. Composition once a week. First semester.

4. **Caesar's Gallic Wars.**—Continuation of Course 3. Second semester.

5. **Cicero.**—Selected orations or letters. Prose composition once a week. First semester.

6. **Cicero.**—Continuation of Course 5. Second semester.

7. **Virgil's Aeneid.**—Including a careful study of the dactylic hexameter. A portion of Ovid may be substituted. Frequent grammatical reviews based upon Bennett's Grammar. First semester.

8. **Virgil's Aeneid.**—Continuation of Course 7. Second semester.

### MATHEMATICS

The preparatory courses in Mathematics embrace Algebra, Commercial Arithmetic, and Geometry. Three semesters of Algebra and two of Plane Geometry are required of all students expecting to graduate. Commercial Arithmetic and Solid Geometry are elective, but students expecting to enter college are advised to take Solid Geometry.

The aim of the courses will be, primarily, to acquire the thoroughness and breadth of information needed for future study of Mathematics; but, also, those wishing to enter more directly into some business or industry will receive the needed preparation.

1. **Algebra.**—Numbers; the simple operations; factoring; simple equations; fractions. First semester, "D" class.

2. **Algebra.**—Solution of linear system; ratio and proportion; graphical solution of equations in one or two variables; evolution; exponents; radicals. Second semester, "D" class.

3. **Algebra.**—Roots, radicals, and exponents; quadratic equations and their theory; progressions and limits; binomial theorem; imaginaries. First semester, "C" class.

4. **Commercial Arithmetic.**—Review of arithmetic, including notation, metric system, fractions, ratio and proportion, divisors and multiples. Study of business forms, interest, stocks, bonds, discount, etc. Open to all students interested in the course.

5. **Geometry.**—Plane. Rectilinear figures; the circle; proportion and similar polygons. First semester, "B" class.

6. **Geometry.**—Plane. Completed. Areas of polygons; regular polygons; measurements of circle. Second semester, "B" class.

7. **Geometry.**—Solid. Lines and planes in space; polyhedrons; cylinders and cones; spheres; figures of symmetry. First semester, "A" class.

8. **Reviews of Arithmetic and Algebra.**—This course is designed for those intending to teach. First semester, "A" class.

## PHYSICS

The course in Preparatory Physics is designed to give the student a degree of familiarity with the general principles of scientific investigation as well as an explanation of the various physical phenomena experienced in daily life. Laboratory experiments and the preparation of a notebook are included in the course. Breakage fee, \$5.00 per course.

1. **Practical Physics.**—Textbook: Black & Davis. Mechanics of solids and fluids; heat. Class room, five hours; laboratory, four hours. First semester. Laboratory fee, \$1.50.

2. **Continuation of Course 1.**—Magnetism, electricity, sound, light. Second semester. Laboratory fee, \$1.50.

## SCHOOL OF MUSIC

### GRACE MARGUERITE BROWNING STUDIOS

The courses in Music include Piano, Pipe Organ, Voice Culture, the Violin, Viola, and other stringed instruments. Besides the individual work suggested on other pages of this year book, there is opportunity afforded for ensemble work, including classes in Harmony, Composition, History, Theory, and Sight-singing.

Faculty and student recitals are given several times each year under the direction of the School of Music.

Studios for voice and piano practice are provided, and any desired number of hours may be arranged for at a merely nominal charge.

For cost of tuition and other expenses, application should be made to Prof. John B. Nykerk, Litt. D., Holland, Michigan.

## THE FACULTY

MR. JOHN B. NYKERK, Litt. D.  
*Secretary. Tel. 5371.*

MR. OSCAR CRESS  
*Piano and Harmony.*

MRS. GRACE DUDLEY FENTON  
*Voice Culture and Singing and Directress of the  
Mens and Womens Glee Clubs*

MRS. ANNA MICHAELSON, *Voice*

MR. HARVEY FAIRBANKS  
*Violin and Director of Orchestra.*

MR. GEORGE DOK  
*Pipe Organ*

MR. GEORGE LA MERE  
*Cello.*

## PIANO

Mr. Cress is an exponent of the Leschetizky method, having been a pupil in the celebrated Leschetizky school in Vienna, Austria, where he studied for a time with Mme. Malwine Bree, the first assistant, afterwards becoming a personal pupil of the master Theodore Leschetizky. While in Vienna, Mr. Cress studied harmony and counterpoint with Karl Pflieger.

Previously to going abroad, Mr. Cress had the benefit of years of study in his native land. He began his music work with Karl Andersch, who was a personal pupil of Leschetizky for years.

Mr. Cress is a graduate of the American Conservatory of Music, in Chicago, in the departments of piano, harmony, counterpoint, and composition. In the art of piano playing and interpretation, Mr. Cress won special distinction at his graduation recital, having been awarded the gold medal by the American Conservatory of Music for the playing of the Schumann Concerto in A minor, which was the competitive composition.

After returning from abroad, Mr. Cress was made a member of the faculty of the Chicago Conservatory of Music, where he was at the head of the Leschetizky department. In addition to his teaching, Mr. Cress has an extensive repertoire for recital and concert work.

**First Year.**—Study of the different keys and their scales and chords. Position of the hand and fingers. Special five-finger exercises for relaxation and the development of independence of the fingers. Composers used: Pressner's "First Steps in Piano Playing"; Czerny, "Recreations"; Bergmuller, Opus 100; Duvernoy, Opus 176.

Musical literature employed for the first grade includes a large list of instructive and interesting material by such composers as Lichner, Lange, Bachmann, Krogman, Brown, and numerous other writers.

**Second Year.**—Continuation of the study of major and minor scales and arpeggios in all keys. Special exercises in tone work. Syncopated pedaling. Composers: Heller, Opus 47; Duvernoy, Opus 120; Le Moine.

Musical literature used in this grade includes compositions by Beethoven, Mozart, Bohm, Lange, Merkel, Engelmann, Frimi, and other contemporary writers.

**Third Year.**—Technical studies of greater difficulty. Broken chords. Octave work and such training as will promote handling of the works of the great masters. Studies used: Bach, "Two and Three Part Inventions"; Czerny, "School of Velocity", Opus 299, and Opus 636; Heller, Opus 45-46; Schytte, "Romantic Studies"; Low, Octave Studies. In this grade are used some of the easier sonatas of Beethoven, as well as many of the compositions of Schubert, Mendelssohn, Schumann, Chopin, Tschai-kow-



sky. There is also a great wealth of attractive and instructive music from the modern school of composition—Lack, Godard, Chaminade, Grieg, Scharwenka, Moszkowski, Poldini, Nevin, and Thomè.

**Fourth, or Last Year.**—Students in this grade will have reached a degree of proficiency enabling them to play many of the well known compositions of the great composers. The more difficult artistic studies are left for the most advanced students.

Studies used in grade 4: Bach, "Preludes and Fugues"; Kramer, Studies; Czerny, Opus 740; Heller, Preludes, Opus 81; Chopin, Preludes.

The choice of composition in this grade includes much of the classical music and wealth of beautiful modern compositions of Chopin, Liszt, Schumann, Grieg, Leschetizky, Moszkowski, Raff, Schubert, Rachmaninoff, Paderewski, and MacDowell.

### THE VOICE AND SINGING

Mrs. Fenton began her vocal training in Chicago with Noyes B. Minor. Later she studied with Karleton Hackett, the well known maestro and music critic on the Chicago Evening Post. She studied piano with Mrs. G. N. Murdaugh, and harmony with Adolph Weidig. After several years with Hackett, she, for three years, took charge of the vocal work in Illinois College, at Jacksonville, singing in church and concertizing meanwhile. After this she went to Germany and was coached by Mme. Gadski, returning to teach in the American Conservatory, Chicago. After considerable experience in concert, oratorio, and recital work, she settled in Grand Rapids, Michigan, where, at her studio, many of the best professionals of Western Michigan were trained. Besides teaching voice, Mrs. Fenton has had considerable success coaching in oratorio and opera.

Mrs. Fenton's instruction in Voice and Singing includes the following: Voice placement; breathing; tone production; interpretation; diction; study of the compositions of American, English, French, Russian, German, and Italian composers; oratorio and opera.

Mrs. Michaelson, assistant in Voice, is a pupil of Mrs. Fenton and successfully teaches her method.

### PIPE ORGAN

The School of Music has secured the services of Mr. George Dok, of Holland, to teach Pipe Organ. Mr. Dok began his pipe organ study with Mr. Walter Hartley, formerly of Grand Rapids, and later with Mr. Arthur Dunham, of Chicago. He also spent considerable time coaching with Mr. Clarence Eddy, America's foremost organist and teacher.

Mr. Dok spares no effort in teaching his pupils a real organ

touch and uses only the best examples of the classics and modern literature written for the organ.

## VIOLIN

A change was effected in the Department of Violin by Mr. Wecker's resignation. Mr. Harvey Fairbanks was secured to teach violin and direct the college orchestra. Mr. Fairbanks is a brilliant young violinist, first discovered and taught by Mr. Perry Weed of Holland. Since leaving Holland, Mr. Fairbanks has studied in New York City for two years under Victor Knezdo and Rudolph Larsen, first assistants to the great violin virtuoso and teacher, Professor Auer.

Mr. Fairbanks has also been coached by Roderick White, the fine violinist, well known in America, and a pupil of Professor Auer. He was a member for eight months of the Jersey Symphony; also played solo violin in a string orchestra on an English steamer, plying between England and South America. Mr. Fairbanks also taught violin in the Winkler School of Music and played on many occasions at concerts and musicales.

**First Year.**—Herman Violin School Book 1; Pleyel Duets; Kayser, Book I; Mazas Duets. Many easy solo pieces and small works in the first position.

**Second Year.**—Herman Violin School, Book II; Kayser, Books II and III; Mazas Duets; Technical Studies; Easy Concertos by De Beriot, Viotti, Rode, and others; Mozart and Haydn Sonatas.

**Third Year.**—Kreutzer; Technical Studies; Mazas Duets; Concertos by De Beriot, Viotti, Rode, and others; Mozart and Haydn Sonatas.

**Fourth Year.**—Technical Studies; Sonatas; Elegies; Romances; Concertos and Works of Mendelssohn; Branms, Spohr, Beethoven, Paganini, etc.

## HISTORY AND THEORY

Mr. Rowland W. Dunham, F. A. G. O., has charge of the department of History of Music and conducts the work in Theory and in Appreciation this year. Mr. Dunham is a graduate of the New England Conservatory of Music and a pupil of Widor and of Andre Block, Paris. He has been teacher of Theory and of Organ at Ohio Wesleyan. He is also connected with the editorial staff of the American Organist. He is now choir master and organist at the Fountain Street Baptist Church, Grand Rapids, Michigan.

## GLEE CLUBS

Two Girls' Glee Clubs and one Men's Glee Club are conducted by Mrs. Grace Dudley Fenton. The first Girls' Glee Club was organized in 1920. Since that time the work has

been carried on with increasing success under Mrs. Fenton's able direction and public performances have been given locally and several concert trips have been made. The Junior Glee Club was organized in 1925. Its membership is made up of pupils in voice who are beginning their studies and who give promise of successful and artistic group work at a later period. Credit on degree requirements is given for the work of the senior organization.

The Men's Glee Club has had an intermittent existence for over thirty-five years. During the last three years the club has been enlarged to a membership of fifty. The best material is segregated for special work and public programs are given by the smaller group. Pupils of ability and ambition are urged to apply for membership and to avail themselves of the training afforded in public singing and conducting. Under certification by the Faculty credit towards the degree in music is granted to members of the club. (See requirements for the degree of Bachelor of Music.)

## COLLEGE ORCHESTRA COLLEGE BAND

A student band, consisting of over forty pieces, is directed by Mr. Herman C. Johnson. Much enthusiasm is displayed in private practice and in public performance under Mr. Johnson's direction.

The College Orchestra is conducted by Mr. John Lloyd Kollen. It is at present limited in membership to pupils of advanced standing and ability and membership is subject to Faculty approval. Credit for work of approved character is granted for application to the Musical Degree (See requirements for degree.)

## THE BACHELOR OF MUSIC COURSE

The Degree of Bachelor of Music will be granted on the following conditions:

**ENTRANCE REQUIREMENTS:** Fifteen Units of Secondary Work in literary groups of which not more than two units may be in Music and Drawing. Other vocational units will not be accepted. At least four units must be offered in English and two units in a foreign language. Credit will not be given in any foreign language unless at least two years have been taken. Preference will be given to applicants who have done private work in some branch of music under an instructor whose work can be approved by the Faculty of the School of Music.

**COURSE REQUIREMENTS:** A MAJOR SUBJECT  
—in this subject two (2) lesson hours a week with

an average of two (2) practice hours a day for which the total credit hours allotted will be..... 7 hours

The total requirements in the Major Subject will be ..... 42 hours

(In this requirement 1 semester hour credit will be allowed for each two hours of studio practice.)

A MINOR SUBJECT—In this subject one (1) lesson hour a week with an average of one (1) practice hour a day for which the total credit hours allotted will be.....3½ hours

The total requirements in the Minor Subject will be 28 hours

In History of Music, Theory of Music, and, as offered, Appreciation of Music, a minimum of four (4) hours will be required but eight (8) hours are suggested in History and Theory with four (4) hours in Appreciation—a total minimum of..... 12 hours

LITERARY REQUIREMENTS—Twenty semester hours (20) will be required in each of the following subjects—English, French and German, a total minimum of ..... 60 hours

RELIGIOUS EDUCATION will be required of all students in the same manner as required in other groups in the College..... 8 hours

ELECTIVES—A total of ten (10) semester hours of credit will be allowed if the applicant shows real ability to do the major work; five hours (5) will be allowed as elective if the student gives an independent public recital under the auspices of the School of Music and the degree will be given "With Honors" to such students.

Total Hours for the Degree.....150 hours

A Combined Course leading to the Degree of Bachelor of Arts and of Bachelor of Music will be granted to students who complete six years of residence work with a minimum total of 90 hours of literary work, of which at least ten shall be in Physical Science.

All students who are candidates for the Degree in Music shall take Piano as one of the subjects required, either as a Major or a Minor, subject to the discretion of the Faculty of the School of Music. No student, however, will be given the degree who does not have at least seven (7) semester hours credit in Piano.

A Maximum Credit of two (2) semester hours a year will be allowed for work as members in the various campus musical organizations recognized by the School of Music. In no case will a student be allowed degree credit for membership in more than one organization during a given year. Professional Service (Paid Service under Contract) will not be

permitted during term time except under scholarship grant or in cases of unusual proficiency in the major subject. Any credit allowed under this paragraph must be certified by the Secretary and in no case will credit be allowed unless a minimum of one (1) studio hour has been taken for eighteen consecutive weeks in the professional subject.

