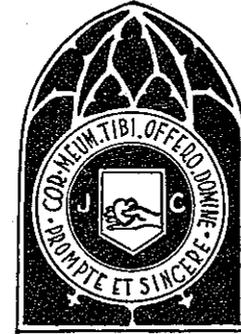


CALVIN COLLEGE

AN INSTITUTION OF THE
CHRISTIAN REFORMED
CHURCH



YEARBOOK
1932-1933

Academic Record for 1932-1933
Announcements for 1933-1934

GRAND RAPIDS, MICHIGAN

How to Address Correspondence

All correspondence should be sent to Calvin College, Grand Rapids, Michigan. In sending correspondence, the specific addresses given below should be used:

Regarding admission and graduation requirements, address the Dean.

Regarding records, transcripts, requests for literature, address the Registrar.

Regarding boarding or rooming places for girls, work for girl students, address the Dean of Women.

Regarding boarding or rooming places for men, whether or not in Calvin Dormitory, address the Committee on Dormitory and Boarding Places.

Regarding teaching positions after graduation, address the Placement Bureau.

Regarding alumni matters, address the Secretary of the Alumni Association.

All checks should be made payable and correspondence concerning them sent to the Treasurer, Calvin College.

TABLE OF CONTENTS

How to Address Correspondence.....	2
Table of Contents.....	3
Calendar of the College.....	5
Board of Trustees.....	6
Faculty	9
Admission	11
Freshman Standing	11
Advanced Standing	13
Unclassified Students	14
Student Expenses	15
Tuition and Other Fees.....	15
Living Expenses	16
Board and Room with Private Families.....	16
Calvin Dormitory, Board and Room at.....	17
Student Aid	18
Scholarships and Prizes	18
Prizes and Awards	19
Placement Bureau	20
Administration	21
Religious Culture	21
Physical Education	21
Attendance	21
Grades and Honor Points.....	21
Examinations and Written Work.....	22
Dropping and Changing of Courses.....	23
Dismission	23
Requirements for Graduation.....	24
General College	24
Pre-Seminary	26
Education	26
Pre-Medical	28
Pre-Dental	29
Pre-Law	29
Pre-Engineering	30
Business Administration	31
Forestry	31
Nursing	31

Description of Courses.....	33
Art	33
Bible	33
Chemistry	34
Dutch	35
Economics and Sociology	36
Education	37
Engineering Drawing and Statics.....	40
English	40
French	41
German	42
Greek	43
History	44
Latin	45
Mathematics	46
Music	47
Organic Science	48
Philosophy	49
Physics	50
Political Science	50
Public Speaking	50

CALENDAR

1933

January 3, 7:00 A. M.....	Christmas Vacation ends.
January 16-20.....	Final Examinations.
January 20.....	First Semester closes.
January 20-21.....	Registration for Second Semester.
January 24.....	Second Semester begins.
February 22.....	Washington's Birthday.
March 8.....	Day of Prayer.
March 24, 6:00 P. M.....	Spring Vacation begins.
April 4, 7:00 A. M.....	Spring Vacation ends.
April 5-6.....	Re-examinations.
May 25-June 3.....	Final examinations.
June 6.....	Commencement.

SUMMER VACATION

September 6, 9:00 A. M.....	Entrance Examinations.
September 6, 9:00 A. M.....	Enrolment of New Students.
September 6-7, 9:00 A. M.....	Registration for First Semester.
September 7-9.....	Re-examinations.
November 30-31.....	Thanksgiving Recess.
December 19, 6:00 P. M.....	Christmas Vacation begins.

1934

January 3, 7:00 A. M.....	Christmas Vacation ends.
January 15-19.....	Final Examinations.
January 19.....	First Semester closes.
January 18-19.....	Registration for Second Semester.
January 23.....	Second Semester begins.
February 22.....	Washington's Birthday.
March 14.....	Day of Prayer.
March 23, 6:00 P. M.....	Spring Vacation begins.
April 3, 7:00 A. M.....	Spring Vacation ends.
April 4-5.....	Re-examinations.
May 24 to June 1.....	Final examinations.
June 5.....	Commencement.

SUMMER VACATION

September 5, 9:00 A. M.....	Entrance Examinations.
September 5, 9:00 A. M.....	Enrolment of New Students.
September 5-7, 9:00 A. M.....	Registration for First Semester.
September 6-8.....	Re-examinations.
November 29-30.....	Thanksgiving Recess.
December 21, 6.00 P. M.....	Christmas Vacation begins.

BOARD OF TRUSTEES

OFFICERS

The Rev. John Dolfin.....President
 The Rev. Wm. P. Van Wyk.....Vice-President
 The Rev. Lambertus J. Lamberts.....Secretary
 The Rev. Daniel Zwier.....Assistant Secretary

MEMBERS

CLASSIS CALIFORNIA

Term Expires

The Rev. Martin M. Schans.....Redlands, Calif.....1934
 The Rev. Richard J. Frens.....Hanford, Calif.....1936

CLASSIS GRAND RAPIDS EAST

The Rev. William P. Van Wyk.....Grand Rapids, Mich.....1934
 The Rev. James Bruinooge.....Moline, Mich.....1936

CLASSIS GRAND RAPIDS WEST

The Rev. Ymen P. De Jong, Th.D.....Grand Rapids, Mich.....1934
 The Rev. Garrett Hofmeyer.....Grand Rapids, Mich.....1936

CLASSIS HACKENSACK

The Rev. John J. Hiemenga.....Paterson, N. J.....1934
 The Rev. Dirk De Beer.....Passaic, N. J.....1936

CLASSIS HOLLAND

The Rev. Daniel Zwier.....Holland, Mich.....1934
 The Rev. Lambertus Veltkamp.....Holland, Mich.....1936

CLASSIS HUDSON

The Rev. James Holwerda.....Paterson, N. J.....1934
 The Rev. John Walkotten.....Paterson, N. J.....1936

CLASSIS ILLINOIS

The Rev. Peter A. Hoekstra.....Cicero, Ill.....1934
 The Rev. Gerrit Hoeksema.....Chicago, Ill.....1936

CLASSIS MUSKEGON

The Rev. Lambertus J. Lamberts.....Fremont, Mich.....1934
 The Rev. John Dolfin.....Muskegon, Mich.....1936

CLASSIS ORANGE CITY

The Rev. Ralph Bronkema, Th.D.....Orange City, Iowa.....1934
 The Rev. William Bajema.....Sheldon, Iowa.....1936

CLASSIS OSTFRIESLAND

The Rev. Edward Boeve.....Wellsburg, Iowa.....1934
 The Rev. William Bode, Th.D.....Clara City, Minn.....1936

CLASSIS PACIFIC

The Rev. Jacob Mulder.....Nobleford, Alta., Canada.....1934
 The Rev. Isaac Westra.....Lynden, Wash.....1936

CLASSIS PELLA

The Rev. Dirk Hollebeek.....Pella, Iowa.....1934
 The Rev. Idzert Van Dellen.....Denver, Colo.....1936

BOARD OF TRUSTEES

7

CLASSIS SIOUX CENTER

Term Expires

The Rev. John H. Geerlings.....New Holland, So. Dak.....1934
 The Rev. John M. Dykstra.....Sioux Center, Iowa.....1936

CLASSIS WISCONSIN

The Rev. William Terpsma.....Sheboygan, Wis.....1934
 The Rev. John C. Schaap.....Oostburg, Wis.....1936

CLASSIS ZEELAND

The Rev. Ebo J. Krohne.....Hudsonville, Mich.....1934
 The Rev. William Kok.....Zeeland, Mich.....1936

EXECUTIVE COMMITTEE

The Rev. Lambertus Veltkamp, President
 The Rev. Lambertus J. Lamberts, Secretary
 The Rev. James Bruinooge
 The Rev. Ymen P. De Jong, Th. D.
 The Rev. Ebo J. Krohne

COMMITTEE ON FINANCES

Mr. Gerrit J. Rooks, President
 The Rev. Daniel Zwier, Secretary
 Mr. Gerrit L. Dornbos
 Mr. John Hekman
 Mr. Benjamin W. Hertel
 The Rev. William Kok
 Mr. Tony Noordewier
 Dr. Albert B. Poppen
 The Rev. William P. Van Wyk
 Mr. Fred L. Winter

Mr. Tony Noordewier, Treasurer.....855 Kalamazoo Ave., S. E.
 Mr. Henry Voss, Assistant Treasurer.....1117 Neland Ave., S. E.
 Miss Caroline Veen, Clerk.....1020 Benjamin Ave., S. E.
 Mr. E. J. Norden, Janitor.....1130 Thomas St., S. E.

THE FACULTY

- THE REV. RIENK B. KUIPER, A. M., B. D., *President*
1131 Giddings Avenue, S. E. Telephone 3-2765
- ALBERTUS ROOKS, A. M., *Dean*
Professor of the Latin Language and Literature
737 Benjamin Avenue, S. E. Telephone 5-1221
- KLAAS SCHOOLLAND
Professor Emeritus of the Greek Language and Literature
854 Worden Street, S. E. Telephone 5-7188
- JACOB G. VAN DEN BOSCH, A. M.
Professor of the English Language and Literature
857 Bates Street, S. E. Telephone 5-6054
- ALBERT E. BROENE, A. B.
Professor of Modern Languages
1417 Thomas Street, S. E. Telephone 3-3835
- JOHANNES BROENE, A. M.
Professor of Education
1409 Fisk Street, S. E. Telephone 5-9930
- JOHN P. VAN HAITSMAN, Ph. D.
Professor of Organic Science
1027 Benjamin Avenue, S. E.
- JAMES NIEUWDORP, B. S.
Professor of Mathematics
900 Benjamin Avenue, S. E. Telephone 5-3765
- HENRY J. G. VAN ANDEL, A. M.
Professor of the Holland Language and Literature
1231 Giddings Avenue, S. E. Telephone 5-5096
- PETER HOEKSTRA, Ph. D., *Secretary*
Professor of History and Political Science
1015 Worden Street, S. E. Telephone 3-4710
- RALPH STOB, Ph. D.
Professor of the Greek Language and Literature
1301 Calvin Avenue, S. E. Telephone 3-4803
- HENRY J. RYSKAMP, Ph. D.
Professor of Economics and Sociology
1201 Sherman Street, S. E. Telephone 9-3857
- WILLIAM HARRY JELLEMA, Ph. D.
Professor of Philosophy
1312 Giddings Avenue, S. E. Telephone 5-3008
- HARRY G. DEKKER, M. S., *Registrar*
Professor of Chemistry
1309 Alexander Street, S. E. Telephone 3-4494

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Telephone 5-7692

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Professor of Educational Methods and Director of Normal Training
 1143 Fuller Avenue, S. E.

Telephone 5-6600

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Professor in Public Speaking and Music
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Telephone 5-1229

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Dean of Women
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Telephone 3-8383

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Telephone 5-9861

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Assistant in Physics and Engineering
 1115 Alexander Street, S. E.

WILLIAM CORNELISSE
Director of Athletics
 1448 Hall Street, S. E.

Telephone 3-2704

JOSEPHINE BAKER, A. B.
Acting Librarian
 936 Twelfth Street, N. W.

Standing Committees of the Faculty

ATHLETICS, BOARDING PLACES, AND DORMITORY—Ryskamp, Dekker and Meeter.

DISCIPLINE—Jellema, Dekker, and Van den Bosch.

EDUCATIONAL POLICY AND NORMAL TRAINING—Van Haitsma, Nieuwdorp, Rooks, Ryskamp, J. Broene, and A. E. Broene.

RELIGIOUS AND SOCIAL ACTIVITIES—Meeter, Stob, Swets, and Miss Timmer.

LIBRARY—Stob, Nieuwdorp, and Miss Timmer.

PUBLICATION—Van den Bosch, Flokstra, Monsma, and Wassink.

APPOINTMENTS—Van Zyl, Rooks, and Jellema.

ADMISSION

ALL APPLICATIONS for admission to Calvin College should be made to the Dean. Blanks will be furnished on request.

All applicants for admission must present a satisfactory written testimonial of good moral conduct. One who intends to study for the ministry must in addition present a recommendation from his consistory endorsing him for the ministry.

The regular time for admission is at the beginning of the school year in September, and at the beginning of the second semester in January. The Faculty has the right, however, to accept during the school year students that meet the requirements.

All certificates and testimonials should be submitted to the Dean as soon as possible, and not later than the day of registration.

Freshman Standing

STUDENTS are admitted to Freshman standing on one of the following three plans:

PLAN A. ADMISSION BY CERTIFICATE. To be admitted on this plan, the applicant must meet the following four requirements:

1. Certification. The applicant must submit a certificate from an accredited school.

2. Amount of work. This certificate must testify to the satisfactory completion of fifteen units of work. By a unit of work is meant the equivalent of five recitations a week for thirty-six weeks in one branch of study.

3. Prescribed work. Certain of these fifteen units are prescribed. How many and which units are prescribed depends on the college course to which the applicant seeks admission with Freshman standing, as follows:

For admission to the *General College* course, nine units prescribed:

Algebra	1 unit	Geometry	1 unit
English	3 units	History	1 unit
Foreign Languages, any one:		Laboratory Science, any one:	
Dutch, French, German,		Botany, Chemistry,	
Greek, or Latin.....	2 units	Physics, or Zoology.....	1 unit

For admission to the *Pre-Seminary* course, twelve units prescribed:

Algebra	1 unit	History	2 units
English	3 units	Latin	2 units
Geometry	1 unit	Science	1 unit
German	2 units		

For admission to the course in *Education*, nine units prescribed:

Algebra	1 unit	Geometry	1 unit
English	3 units	History	1 unit
Foreign Languages, any one:		Laboratory Science, any one:	
Dutch, French, German,		Botany, Chemistry,	
Greek, or Latin.....	2 units	Physics, or Zoölogy.....	1 unit

For admission to the *Pre-Medical* course (this applies also to such as intend later to study *Dental Surgery*), ten and one-half units prescribed:

Algebra	1½ units	History	1 unit
Chemistry	1 unit	Latin	2 units
English	3 units	Physics	1 unit
Geometry	1 unit		

(Applicants for admission to the *Pre-Medical* course are also strongly urged to present Botany, French or German, and Zoölogy.)

For admission to the *Pre-Law* course, nine units prescribed:

Algebra	1 unit	Geometry	1 unit
English	3 units	History	1 unit
Foreign Languages, any one:		Laboratory Science, any one:	
Dutch, French, German,		Botany, Chemistry,	
Greek, or Latin.....	2 units	Physics, or Zoölogy.....	1 unit

For admission to the *Pre-Engineering* course (this applies also to such as intend later to study *Architecture*), nine and one-half units are prescribed:

Algebra	1½ units	Geometry	1½ units
English	3 units	History	1 unit
Foreign Languages, any one:		Laboratory Science, any one:	
Dutch, French, German,		Botany, Chemistry,	
Greek, or Latin.....	2 units	Physics, or Zoölogy.....	1 unit
		Trigonometry	½ unit

(If the applicant is unable to fulfil the requirement in Trigonometry, he may substitute one full additional unit of Foreign Languages. In that case, he will, however, be required to take Trigonometry in college in addition to the other requirements of the *Pre-Engineering* course.)

4. Distribution of work. After in each instance deducting the number of units prescribed, the remainder of the fifteen units must be distributed in the following list; except that two units *may* consist of subjects which, though not included in the following list, are counted toward graduation by the accrediting school.

Algebra	1 to 2 units	Geometry	1 to 1½ units
Bible	1 unit	German	2 to 4 units
Botany	½ to 1 unit	Greek	1 to 3 units
Chemistry	1 unit	History	1 to 3 units
Civics and Economics		Introd. Science..	½ to 1 unit
.....	½ to 1 unit	Latin	2 to 4 units
Dutch	2 to 4 units	Physics	1 unit
English	3 to 4 units	Physiology	½ unit
French	2 to 4 units	Spanish	2 to 4 units
Geography and Geology		Trigonometry	½ unit
.....	½ to 1 unit	Zoölogy	½ to 1 unit

PLAN B. ADMISSION BY EXAMINATION. Applicants who are unable to furnish approved certificates and are therefore unable to meet the first requirement of PLAN A, may be admitted if by pass-

ing satisfactory examinations they can meet the other requirements of PLAN A. Further particulars regarding such examinations may be obtained from the Dean.

PLAN C. PROVISIONAL ADMISSION. An applicant for admission, whether on PLAN A or on PLAN B, who meets all the requirements save that he fails by not more than one unit to satisfy the requirements either as to prescribed work or as to distribution of work, may be admitted provisionally. Such deficiency must, however, be made good during the first year of residence.

Advanced Standing

ADVANCED STANDING (in other words, college credit), is granted in the following cases:

1. When the applicant submits from an accredited college, junior college, or normal school, a certificate of honorable dismissal and a transcript of the studies pursued. However, no applicant is allowed more than sixteen hours of credit for each semester of work taken at some other recognized institution.

2. When the applicant, at the time of entrance, passes satisfactory examinations in the subjects in which he desires advanced standing.

3. When the applicant, having at the time of entrance declared the subjects in which he desires advanced standing, then during his first year of residence at Calvin College creditably completes, in the respective departments of study concerned, courses which presuppose a satisfactory knowledge of the work for which advanced standing is asked.

4. When the applicant submits from an accredited high school, in excess of sixteen units for admission, credits in subjects which are also taught in college; provided that for at least one semester he successfully continues work in these subjects at Calvin College. The limit of such college credit allowance is six hours.

5. When the applicant submits credits from an accredited high school for work done after graduation, provided these credits are in courses taught in both high school and college. No more than ten hours will be allowed for a full semester's work.

Admission to advanced standing does not excuse the student from meeting the specified requirements for graduation from Calvin College. For example, students entering as sophomores in the General College course must for graduation earn ninety-four honor

points, those entering as juniors sixty-two and one-half honor points, those entering as seniors thirty-one honor points.

To students coming from other colleges not more than sixteen hours of credit will be allowed for every full semester's work.

All advanced standing is subject to revision at the end of the first year of residence.

Students expecting advanced standing for work done at other institutions should bring full credentials, and should at the time of entrance consult the Dean.

Unclassified Students

APPPLICANTS for admission who are not candidates for graduation may be enrolled for such studies as their preparation qualifies them to pursue with profit. Such applicants should consult the Dean regarding arrangements.

STUDENT EXPENSES

Tuition and Other Fees

ALL TUITION and other fees are charged by the semester, and must be paid to the College Treasurer during the first five days of registration for the semester. To this rule there is one exception; as follows:

The graduation fee need not be paid till just before the time of admission to final examinations.

GYMNASIUM FEE. All students pay a gymnasium fee of two and one-half dollars each semester.

ORGANIZATION FEE. All students pay an organization fee of two and one-half dollars each semester for the benefit of all-school activities.

REGULAR TUITION FEE. The regular tuition is fifty dollars a semester. In certain instances, however, reductions are made; as follows:

For two students from one family residing west of the Ohio River and east of the Mississippi River, the tuition fee for each is thirty-seven and one-half dollars a semester.

For students residing east of the Ohio River, the tuition fee is thirty-three and one-half dollars a semester; for two students from one family residing in the region defined, the tuition fee for each is twenty-seven dollars a semester.

For students residing west of the Mississippi River but east of Montana, Wyoming, Colorado, and New Mexico, the tuition fee is thirty-three and one-half dollars a semester; for two students from one family residing in the region defined, the tuition fee for each is twenty-seven dollars a semester.

For students residing in Montana, Wyoming, Colorado, New Mexico, or in points west of these states, the tuition fee is seventeen and one-half dollars a semester.

For students in the pre-Seminary course the tuition will be the same as that charged students in other courses; upon admission to our Seminary, however, the excess paid over and above the rates specified in the College catalog of 1931 on page 21 (previously approved by the Board and Synod) will be credited toward tuition in the Seminary until absorbed.

In calculating the tuition fee, residence is determined as follows:

Residence of minors is that of their parents or legal guardians.

Residence of a married man is considered that of his established home during the semester preceding the date of registration.

Residence of all others is considered local.

EXCESS HOURS. Students taking in excess of seventeen semester hours will be charged an extra fee of six dollars for each such excess semester hour.

LESS THAN NINE HOURS. Students taking less than nine semester hours have their tuition fee computed at the rate of six dollars for each semester hour.

LABORATORY FEE. An extra fee is charged in some laboratory courses to cover cost of material, wear and tear of instruments, and the like. Amount of such laboratory fee is indicated in the catalog in the description of the specific courses.

PRACTICE FEE. A practice fee of six dollars a semester is paid by students who register for practice teaching.

GRADUATION FEE. The general graduation fee, including diploma, is five dollars.

LATE REGISTRATION. A fee of one dollar will be charged for late registration.

REFUNDMENT. No refunds will be made to any student expelled, suspended, or requested to withdraw on account of conduct or poor scholarship.

If a student withdraws voluntarily, and in good standing, within two weeks after the first day of enrolment, tuition and all fees except \$5 to cover registration, will be refunded; if before the end of eight weeks, one-half of the total fees (tuition and miscellaneous fees) will be returned; and after eight weeks, no part will be refunded.

Living Expenses

LIVING EXPENSES, including board, room rent, fuel, light, laundry, and text books, are from \$200.00 up.

Board and Room with Private Families

BOARD in private families will cost from four to eight dollars a week.

Those who engage private rooming places are expected to retain their rooms for one semester, unless prevented for good reasons.

Any student or prospective student who desires assistance in procuring a private rooming or boarding place, should apply to the Committee on Dormitory and Boarding Places, Calvin College. This committee constantly keeps on file a list of such places, and will do all in its power to obtain for the student the kind of place desired. Correspondence is cordially invited.

A city such as Grand Rapids offers splendid opportunities for self-support, especially for young women who desire to work for their room and board.

Girl students who wish to work for board and room should correspond with the Dean of Women, Calvin College, who will gladly render all possible assistance.

Board and Room at Calvin Dormitory

MALE STUDENTS may obtain board and room at the college dormitory for six dollars a week and upward. Application for admission should be made to the Committee on Dormitory and Boarding Places, Calvin College. Since new applications are given preference according to time of filing, the applicant is advised to correspond with the committee as soon as he has made up his mind to reside at the Dormitory.

Applicants accepted for admission to the Dormitory are responsible for their rooms for one semester.

Admission to the Dormitory is regarded by the College authorities not as a right but as a privilege which may be withheld or withdrawn from any student whose presence at the Dormitory is not considered desirable.

STUDENT AID

Scholarships and Prizes

UNIVERSITY OF MICHIGAN STATE COLLEGE FELLOWSHIP.—The following is taken from the Catalogue of the University of Michigan:

"By action of the Board of Regents each of the faculties of the accredited colleges of the State of Michigan is authorized to nominate each year to the administration office of the Graduate School some members of the graduating class or some one of their graduates of not more than four years standing as a suitable candidate for a State College fellowship or scholarship. An alternate may also be nominated in each instance."

Students wishing to make application for this fellowship should consult the Registrar of Calvin College *not later than February 1*.

RHODES SCHOLARSHIP.—Male students in the junior and senior years may apply for nomination to the Cecil Rhodes Scholarship. This Scholarship, tenable for three years, carries an annual honorarium of at least \$1,500.00 for study at Oxford. Students wishing to compete should consult the Registrar before October 1, 1933.

For detailed information address Mr. James K. Watkins, 923 Ford Bldg., Detroit, Mich.

FRESHMAN SCHOLARSHIPS. Each year Calvin College offers a scholarship, consisting of free tuition for the Freshman year, to a member of the graduating class in each of the five Christian High Schools (Eastern, Chicago, Grundy, Holland, and Western), who is recommended thereto by the faculty of that school, in accordance with the following conditions:

1. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth.
2. The recipient must have fulfilled regular college admission requirements.
3. The recipient should expect to complete the course at Calvin.
4. The recipient should have been in residence at the high school from which he graduates for at least his junior and senior years.
5. If in the opinion of the faculty of any of these schools no suitable candidate is available, no award shall be made in that particular year.

BROODMAN ORATORICAL PRIZES.—Through the generosity of Dr. G. J. Broodman of Grand Rapids, Michigan, gold, silver, and bronze

PRIZES AND AWARDS

19

medals are given annually to the winners of the first, second, and third prizes, respectively, in a men's oratorical contest. The first prize winner represents Calvin in the state oratorical contest of the Michigan Oratorical League held in March of each year.

BROODMAN DEBATING TROPHY.—All students are eligible for intramural debating in competition for the silver cup awarded by Dr. G. J. Broodman. The names of the three winners are inscribed on this cup. Calvin as a member of the Michigan Debating League, each year puts into the field two teams to meet other colleges. The intercollegiate debaters are chosen by faculty judges from those who participate in the intramural debates.

HEYBOER PRIZE.—Mr. G. A. Heyboer of Grand Rapids has given three prizes in oratory for women, of \$15.00, \$10.00, and \$5.00. The first prize winner represents Calvin in the state oratorical contest of the Michigan Oratorical League held in March of each year.

THE RINCK MEMORIAL PRIZE.—A fund of \$500.00 has been subscribed by former students and friends of the late William Rinck, Professor of Mathematics at Calvin College, 1905 to 1920, the income of which is to be devoted to a prize in mathematics. The prize is awarded annually to the student who has done the best work in college algebra, analytical geometry, and calculus, provided the grade in each of these courses is at least "B".

HOFFIUS PRIZE.—Mr. C. Hoffius, former prosecuting attorney of Kent County, Michigan, has given to the College \$300.00 from which prizes are to be given annually to the student doing the best work in some subject specifically included in the pre-Law Course. Freshmen and all pre-Seminary students are not eligible.

Prizes and Awards

BETHANY, MUSKEGON, MISSION PRIZE.—Through the courtesy of the Men's Bible Class of the Bethany Church at Muskegon, a first prize of thirty dollars (\$30.00) and a second prize of twenty dollars (\$20.00) is offered annually for the two best essays on any missionary subject. Competition for these prizes is open not only to the college students, but also to those of the seminary. Essays must be handed in either to the college president or to Professor Volbeda, who are also ready to give further information regarding the conditions governing the awarding of this prize.

THE BEETS CALVINISM PRIZE.—Dr. and Mrs. Henry Beets have presented the College with \$300.00, the income of which is to con-

stitute a prize for the best essay or term paper on Calvinism, in any of its bearings, written each year by Calvin College students, and to be awarded at the discretion of the Professor holding the chair of Calvinism; in consultation with the President of Calvin College, provided that if during any given year the professor named above does not consider the essays or papers submitted of sufficient merit to deserve the prize, the interest of such a year, or years, be added to the principal.

THE C. J. GEENEN PRIZE.—Dr. C. J. Geenen of Grand Rapids, for an indefinite period, offers a prize of \$25.00 annually for the best essay on a subject to be announced by the donor. The contest is open to all college students, and papers must be submitted on or before May 1.

Placement Bureau

A PLACEMENT BUREAU which will effect the placing of prospective teachers, graduates from Calvin College (including the Normal Department), has been established. This Bureau keeps on file a list both of vacancies in the teaching forces in our Christian Schools throughout the country and of graduates who desire to teach. All correspondence for the Bureau should be addressed to: Placement Bureau, Calvin College. The services are given without charge.

ADMINISTRATION

Religious Culture

IN ACCORD with its specific aim and with its belief that this aim cannot be attained unless the religious side of the student's life receives due attention, the College makes religious instruction, either doctrinal or historical, compulsory for all classes of students. Ten hours of such religious instruction must be taken during the four college years in accordance with a set program.

Furthermore, all students are required to attend the devotional exercises held in the auditorium each school day at 9:40 A. M.

It is understood, too, that on the Sabbath every student worships regularly at some church of his own selection.

At least once in a school year each student is visited by some professor, the object of this visit being not only to speak with the student about methods of study, difficulties encountered in the work, habits of living, but especially to be a help to him in his spiritual life.

Physical Education

EVERY freshman and sophomore student is required to take two hours of gymnastics or physical education per week. No credit is given for this work.

Attendance

THE school year of thirty-six weeks is divided into two semesters of eighteen weeks each.

Two vacations are given during the year: a vacation of two weeks at the Christmas holidays, and a spring vacation of one week. Students are required to remain on duty until the last school exercise preceding a vacation is completed, and to be present at the hour of opening, after a vacation.

Grades and Honor Points

REPORT CARDS are sent out at the end of each semester.

In grading the work of students a literal system equivalent in honor points is used; as follows:

MARK	INTERPRETATION	EQUIVALENT HONOR POINTS
A	Exceptional.	3
B	Good or very good.	2
C	Graduation average.	1
D	Unsatisfactory; just passable.	0
E	Condition, which may be removed by re-examination.	Minus 1
F	Failure. No re-examination.	Minus 2
Inc.	Work not completed.	

The mark E can be removed only by a re-examination passed with a grade of C or better. Such re-examination must be taken at the appointed time within the next semester. Responsibility for arranging for re-examination at the appointed time, for securing from the instructor concerned a signed removal slip without which no change is made in the Registrar's entries, and for presenting such removal slip to the Registrar, lies with the student. Should the student fail to remove his condition, the mark E is automatically graded F.

For a course marked F a student can receive credit only by satisfactorily repeating the whole course.

To remove a mark Inc. the student must secure credit for the course by satisfying the instructor, within two semesters. Responsibility for securing such credit and for obtaining from the instructor concerned a signed removal slip without which no change is made in the Registrar's entries, and for presenting such removal slip to the Registrar, lies with the student. Should a student fail to remove the mark Inc. within the allotted time, the mark automatically becomes F.

When the record of a student suggests doubt as to his fitness to do more advanced work in a particular department, his case is determined jointly by the Dean and the instructors concerned.

Examinations and Written Work

REGULAR examinations, in writing, are held at the close of each semester. In addition, tests and written recitations are given frequently during the year, with or without previous notice, at the option of the instructor.

Supplementary examinations for admission and for the removal of conditions are held on the first Thursday, Friday, and Saturday of the school year, and on the first Tuesday and Wednesday after the spring vacation.

Term papers and book reports (not including weekly or bi-weekly assignments) shall be in three weeks before the final examinations. Students who fail to submit such written work on time will receive an Inc. in that course unless a written excuse be obtained from the Dean. Removal of such an Inc. may be made in the regular way (see page 22), but with a demerit of at least one point on the semester's standing. Thus A becomes B, B becomes C, and so forth.

Any student found guilty of dishonesty in any examination or test or required written work of any character, will be graded F in the course, besides being subject to discipline.

Dropping and Changing of Courses

AFTER a student has enrolled for a study, he may not drop it without written permission of the Dean. A student may not change his course of study without permission from the Dean.

Dismission

ADMISSION to Calvin College is a privilege, not a right. This privilege may be withdrawn from any student whose presence is not regarded as desirable by the college authorities.

REQUIREMENTS FOR GRADUATION

THE COLLEGE graduates or certifies students from the following courses: General College, pre-Seminary, Education, pre-Medical, pre-Law, pre-Engineering, Business Administration, Forestry, and Nursing.

Every student (except those few who register as "Unclassified") must, in addition to the physical education required of freshmen and sophomores, fulfill the requirements of the course from which he elects to graduate. The requirements in each course are listed below.

By an hour of credit is meant in each case the equivalent of one recitation a week in one subject for one semester. The number of hours of credit given for a particular subject is indicated in the description of that subject to be found under DESCRIPTION OF COURSES.

By department is meant any one of the following: Art, Bible, Chemistry, Dutch, Economics and Sociology, Education, English, French, German, Greek, History, Latin, Mathematics, Music, Organic Science, Philosophy, Physics, Political Science, Public Speaking.

No diploma will be granted for less than one year's resident work, which ordinarily must be the year immediately preceding graduation.

When no full course is completed, a statement is given of the studies which the student successfully completed.

General College

1. AMOUNT OF WORK. The student must complete 125 hours of work.

2. GRADE OF WORK. The student must obtain a total of 125 honor points; in other words, must obtain an average grade of C.

3. PRESCRIBED WORK. Of the 125 hours required, the following are prescribed:

Bible 101, 102, 201, 202, 301	10 hours
English 103, 104	6 hours
French or German	14 hours
History	6 hours
Philosophy (not including Psychology or Logic)	6 hours
Natural Science	10 hours
Latin 10 hours or Greek 14 hours	

REQUIREMENTS FOR GRADUATION

25

If the student has had French or German in high school, the number of hours prescribed in the College may be reduced by eight hours for a unit of first-year work, and by six hours for a unit of second-year work. But every student is required to take in the College at least six hours of either French or German.

If, choosing between Latin and Greek, the student elects Latin and has had Latin in high school, the number of hours prescribed in the College may be reduced by five hours for every unit of high school work. If he elects Greek and has had Greek in high school, the number of hours prescribed in the College may be reduced by eight hours for a unit of first-year work, and by six hours for a unit of second-year work.

4. DISTRIBUTION OF WORK. MAJORS AND MINORS. To insure proper-distribution of the student's work, the departments of study have been divided into three groups; as follows:

Group I. Art, Dutch, English, French, German, Greek, Latin, Music, Public Speaking.

Group II. Chemistry, Mathematics, Physics, Organic Science, Psychology.

Group III. Bible, Economics and Sociology, Education, History, Philosophy, Political Science.

The student must so distribute the total 125 hours (including, therefore, those prescribed) among the three groups that he complies with the following restrictions:

- a. The student must choose one of these three groups as his major and another group as his minor.
- b. In his major group the student must choose two departments in one of which he completes a sequence of at least twenty-one hours and in the other of which he completes a sequence of at least twelve hours. Besides, he must take an additional three hours in either of these two departments. The total number of hours required in the major group is, therefore, thirty-six.
- c. In his minor group the student must choose one department in which he completes a sequence of twelve hours.* Besides, he must take an additional six hours within his minor group. The total number of hours required in the minor group is, therefore, eighteen.
- d. At least one-half of the work taken in residence beyond the sophomore year must be in courses not open to freshmen.

* Should a student choose Group II as his minor, and should he further choose Psychology as a sequence in this group, nine hours of Psychology and three hours of Logic will be accepted as a twelve-hour sequence.

5. **DEGREE.** On satisfactory completion of this course, the student will receive the degree of bachelor of arts.

6. **STATE TEACHERS' LIFE CERTIFICATE.** To be eligible for recommendation for a State Teachers' Life Certificate the student must on graduation have to his credit a total of 128 hours. Twenty hours of Education (including Education 324, 325, 330*m*) and the required courses in the subject of his preference, must be included in this total.

Pre-Seminary

1. **AMOUNT OF WORK.** The student must complete 125 hours of work.

2. **GRADE OF WORK.** The student must obtain a total of 125 honor points; in other words, must obtain an average grade of C. To receive in addition the faculty's recommendation for admission to Calvin Seminary, the student must obtain a total of 167 honor points, representing an average grade of C+.

3. **PRESCRIBED WORK.** The following 113 hours of work are prescribed:

Bible 201, 202, 301, 302	8 hours	Latin	12 hours
Dutch	20 hours	Organic Science	6 hours
English	12 hours	Philosophy (including Psychology and Logic)	12 hours
German	3 hours	Public Speaking	4 hours
Greek	20 hours	Sociology	6 hours
New Testament Greek	4 hours		
History	6 hours		

The student who is deficient in the two units of high school German required for admission to the Pre-Seminary course, and who to make good this deficiency takes German in the College, will not be required to take three additional hours of college German.

4. **DISTRIBUTION OF ELECTIVES.** Of the remaining twelve hours (electives), at least six must be taken in a department in which the student has already had six hours of work. None of the elective hours may be applied for meeting any deficiencies in high school subjects which the student may have on admission to the course.

5. **DEGREE.** On satisfactory completion of this course, the student will receive the degree of bachelor of arts.

Education

1. **AMOUNT OF WORK.** The student must complete 125 hours of work.

2. **GRADE OF WORK.** The student must obtain a total of 125 honor points; in other words, must obtain an average grade of C.

3. **PRESCRIBED WORK.** Of the 125 hours required, the following are prescribed:

Bible 101, 102, 201, 202, 301	10 hours
Education 101	3 hours
English 103, 104, preferably 201 and 202	12 hours
History 101, 102	6 hours
History 323-326 (3 hours), or Greek 315 and Latin 320	6 hours
	<hr/> 37 hours

In addition to the foregoing, a student has choice between the following sets of requirements:

a. For teaching in Elementary Schools:

Art 227 (no credit), 301	3 hours
Economics 101	3 hours
Education 102, 301 or 303 (or 305 and 306), 221 or 225, 230, 234, 232 or 236 or 238, 321, 322	24 hours
Foreign Language	12 hours
Music 201	2 hours
Organic Science 102, 103	4 hours
Public Speaking 101	2 hours
	<hr/> 50 hours
Electives	38 hours

b. For teaching in Junior and Senior High Schools:

Education 102, 223, 232-240 (3 hours), 308, 324, 325, 330 <i>m</i>	17 hours
French or German	12 hours
Greek 101, 102, 313, 314 (12 hours) or Latin 101-102, 103-104 (10 hours) or Natural Science	10 or 12 hours
Mathematics or Philosophy 203, 204	6 hours
Sociology	6 hours
	<hr/> 51 or 53 hours
Electives	37 or 35 hours

Prospective teachers in elementary schools may offer 6 hours of mathematics or 6 additional hours of natural science instead of the 6 required hours in history.

Students are strongly advised also to take Bible 302 or 304.

If the student has had a foreign language in high school, the number of hours prescribed in the College may be reduced by six hours for each unit. But every student is required to take in the College at least six hours of a foreign language.

4. **DISTRIBUTION OF ELECTIVES.** The student must so distribute his electives that at the end of his course he will have a total of at least thirty hours in two departments other than Education, and not fewer than 12 in either of the two departments.

5. **DEGREE.** On satisfactory completion of this course the student will receive the degree of bachelor of arts in education, and will be recommended for a State Teacher's Life Certificate.

Pre-Medical

1. **AMOUNT OF WORK.** The student must complete ninety-four hours of work.

2. **GRADE OF WORK.** The student must obtain a total of ninety-four honor points; in other words, must obtain an average grade of C; except that to be eligible for the degree of bachelor of arts he must in the three years of residence obtain a total of 125 honor points, representing an average of C+.

3. **PRESCRIBED WORK.** Of the ninety-four hours required, certain hours are prescribed; as follows:

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
Bible 101	2 hours	Bible 102	2 hours
Chemistry 103	4 hours	Chemistry 104	4 hours
English 103	3 hours	English 104	3 hours
Organic Science 101.....	4 hours	Mathematics 104	3 hours
Psychology	3 hours	Organic Science 106.....	4 hours

Sophomore Year

Bible 201	2 hours	Bible 202	2 hours
Chemistry 201	4 hours	Chemistry 202	4 hours
French or German 101.....	4 hours	French or German 102.....	4 hours
Organic Science 201.....	4 hours	Organic Science 202.....	4 hours
Physics 201	4 hours	Physics 202	4 hours

Junior Year

Bible 301	2 hours	Chemistry 301	2 hours
Chemistry 301	2 hours	Economics-Sociology or	
Economics-Sociology or		English or History	
English or History		or Philosophy	3 hours
or Philosophy	3 hours	French or German 202.....	3 hours
French or German 201.....	3 hours	Organic Science 302.....	4 hours

Trigonometry presupposes one and one-half units of Algebra.

If the student has had French or German in high school, the number of hours prescribed in the College may be reduced by eight hours for a unit of first-year work, and by six hours for a unit of second-year work. But six hours of either French or German must be taken in college.

Since modern language requirements for admission into medical schools vary widely, medical students are advised to consult the office in respect to them.

4. **DISTRIBUTION OF ELECTIVES.** The number of hours of electives will vary according to the nature of the student's high school

preparation in French or German. For their electives students should choose such subjects as are required for admission to the medical school which they expect eventually to attend.

5. **DIPLOMA.** On satisfactory completion of this course the student will receive a three-year diploma.

6. **DEGREE.** On satisfactorily completing this course with a record of not less than 125 honor points received in the required ninety-four hours, the student is eligible for the degree of bachelor of arts. He will receive this degree after one year of successful work in a recognized medical school.

Pre-Dental

A course meeting all requirements for admission to Class A schools of Dental Surgery will be arranged for students interested in the dental profession.

Pre-Law

1. **AMOUNT OF WORK.** The student must complete ninety-four hours of work.

2. **GRADE OF WORK.** The student must obtain a total of ninety-four honor points; in other words, must obtain an average of C; except that to be eligible for the degree of bachelor of arts the student must obtain 125 honor points, representing an average of C+.

3. **PRESCRIBED WORK.** Of the ninety-four hours required, certain hours are prescribed; as follows:

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
Bible 101	2 hours	Bible 102	2 hours
English 103	3 hours	English 104	3 hours
Latin	3 hours	Latin	3 hours
Mathematics or Science.....	3 hours	Logic	3 hours
Psychology	3 hours	Mathematics or Science.....	3 hours
Public Speaking	3 hours	Public Speaking	3 hours

Sophomore Year

Bible 201	2 hours	Bible 202	2 hours
English	3 hours	English	3 hours
History 203	3 hours	History 204	3 hours
Latin 3 hours; or		Latin 3 hours; or	
French or German.....	4 hours	French or German.....	4 hours
Political Science	3 hours	Political Science	3 hours
Sociology 203	3 hours	Sociology 204	3 hours

Junior Year

Bible 301	2 hours	English	3 hours
English	3 hours	History 302	3 hours
History 301	3 hours	Political Science	3 hours
Political Science	3 hours		

If the student has had French or German in high school, the number of hours prescribed in the College may be reduced by eight hours for a unit of first-year work.

Since modern language requirements for admission into law schools vary widely, law students are advised to consult the office with respect to them.

4. DISTRIBUTION OF ELECTIVES. The number of hours of electives will vary according to the student's high school preparation in languages. For their electives students should choose such subjects as are required for admission in the law school which they expect eventually to attend.

5. DIPLOMA. On satisfactory completion of this course the student will receive a three-year diploma.

6. DEGREE. On satisfactorily completing this course with a record of not less than 125 honor points received in the required ninety-four hours, the student is eligible for the degree of bachelor of arts. He will receive this degree after one year of successful work in a recognized law school.

Pre-Engineering

Normally three years of work at a recognized school of engineering, in addition to the two-year course here outlined, are necessary to finish a regular engineering course.

1. AMOUNT OF WORK. The student must complete seventy hours of work.

2. GRADE OF WORK. The student must obtain a total of seventy honor points; in other words, must obtain an average grade of C.

3. PRESCRIBED WORK. Of the seventy hours required, the following are prescribed:

Freshman Year

FIRST SEMESTER	SECOND SEMESTER
Bible 1012 hours	Bible 1022 hours
Chemistry 101 or 103...4 hours	Chemistry 102 or 104...4 hours
English 1033 hours	English 1043 hours
Mathematics 1032 hours	Mathematics 2024 hours
Mathematics 2013 hours	Drawing (Descriptive Geometry)3 hours
Drawing (Mechanical Drawing)3 hours	Public Speaking or Elective2 hours

Sophomore Year

Bible 2012 hours	Bible 2022 hours
Mathematics 3015 hours	Mathematics 302 (Differential Calculus, 2 hours; Integral Calculus, 3 hours)5 hours
Physics 2015 hours	Physics 2025 hours
Drawing (Mechanics and Sketching)2 hours	Economics 2023 hours
Economics 2013 hours	Statics3 hours

4. DISTRIBUTION OF ELECTIVES. The student may select his electives from the following list: Botany, Economics, English, Foreign Language, History, Music, Philosophy, Public Speaking, Sociology, Zoology.

5. DIPLOMA. On satisfactory completion of this course the student will receive a two-year diploma.

Business Administration

A course meeting the requirements for admission to Class A mid-western schools of Business Administration, will be arranged for students interested in business administration and commerce.

Forestry

For students who wish to enter upon the study of forestry two courses can be arranged. One course consists of two years of study at Calvin College plus two years and a summer session at a recognized School of Forestry. This course leads to the degree of Bachelor of Science in Forestry to be given by the School of Forestry. The other course consists of three years of study at Calvin plus two years at the University of Michigan School of Forestry. This course leads to a Bachelor of Arts degree from Calvin and a Master of Science in Forestry from the University of Michigan.

Nursing

For those interested in Nursing one year of work can be arranged which will be accepted by local hospitals.

DESCRIPTION OF COURSES

Art

Courses 331 and 332 may be credited in the Dutch department. They are of great benefit to teachers and students of history and literature.

227. PENMANSHIP *Two hours**
Theory and practice. Freeman system. Blackboard writing also included.
301. THEORY OF INDUSTRIAL ART *Two hours*
Art education in the elementary schools will be treated in the manner of Winslow's *Organization of Teaching Art: A Program for Art Education in the Schools*.
302. ART (PRACTICE) *Two hours*
Emphasis on Industrial Art.
331. (31). FLEMISH PAINTING *Three hours*
A course in the Flemish and Dutch primitives and Italianizers, followed by a discussion of the Flemish Renaissance painters with emphasis on Rubens and Van Dyck. The course is analytical as well as historical. Lectures, collateral reading, and reports. Not open to Freshmen.
332. (32). DUTCH PAINTING *Three hours*
A course in Dutch painting from the Renaissance to modern times. The emphasis is placed on the seventeenth century. Lectures, collateral reading, and reports. Not open to Freshmen.
Prerequisite: 331.

Bible

101. INTRODUCTION TO THE BOOKS OF THE BIBLE *Two hours*
A general introduction to the Bible as a whole, in which its origin, nature, canonicity, authority, organic unity, and inspiration, and related subjects are investigated. A special introduction, inquiring into the contents, historical setting, literary form, and especially the permanent ethical and religious values of each book.
102. INTRODUCTION TO THE BOOKS OF THE BIBLE *Two hours*
Continuation of 101.
201. REFORMED DOCTRINE *Two hours*
The purpose is to give an advanced course of study in the doctrines of the Christian religion as contained in the Bible and as reflected in the confessional standards of the Reformed Churches.
202. REFORMED DOCTRINE *Two hours*
Continuation of 201.

* No College credit given for this course.

301. **STUDIES IN CALVINISM** *Two hours*
An inquiry into the origin and nature of Calvinism, its influence upon the development of religion, ethics, political life, social life, science, and art, as well as the proper application of its principles in these spheres. The course consists of lectures, assigned readings, and essays. Open to Juniors and Seniors. To others only by special permission.
302. **BIBLICAL ARCHÆOLOGY** *Two hours*
A study of the geographical, social, civic, and religious customs of the Hebrews, and of the peoples among whom they lived when the Bible arose.
304. **CHURCH HISTORY** *Three hours*
The historic development of Christianity and events related to it. Special consideration is given the development amongst the Reformed churches, especially of the Netherlands and America. Open to Juniors and Seniors.

Chemistry

101. (1b.) **GENERAL INORGANIC CHEMISTRY** *Four hours*
Three hours in class-room and one laboratory period of four hours per week. Laboratory fee \$3.00. Breakage fee, \$5.00. Prerequisite: no previous training in Chemistry required, but student should have knowledge of Physics.
102. (2b.) **GENERAL INORGANIC CHEMISTRY** *Four hours*
Continuation of 101. Hours, texts, and fees the same.
103. (1.) **GENERAL INORGANIC CHEMISTRY** *Four hours*
Three hours in class-room and one laboratory period of four hours per week. Laboratory fee, \$3.00. Breakage fee, \$5.00. Prerequisite: high school chemistry.
104. (2.) **GENERAL INORGANIC CHEMISTRY** *Four hours*
Continuation of 103. Hours, texts, and fees the same.
201. (3.) **QUALITATIVE ANALYSIS** *Four hours**
Two hours of class room work, one quiz period, and two laboratory periods of three hours each per week. Laboratory fee, \$3.00. Breakage fee, \$5.00. Prerequisites: 103 and 104 or 101 and 102.
202. (4.) **ORGANIC CHEMISTRY** *Four hours**
Two or three hours of class-room work, one quiz period and two laboratory periods of three hours each per week. Laboratory fee, \$3.00. Breakage fee, \$5.00. Prerequisite: General Inorganic Chemistry.
301. (5.) **QUANTITATIVE ANALYSIS** *Four hours**
One hour in the class-room and from eight to ten hours of laboratory work per week. Laboratory fee, \$3.00. Breakage fee, \$5.00. Prerequisite: 201.
302. (6.) **INORGANIC CHEMISTRY** *Two hours*
A course emphasizing the theories and laws of inorganic chemistry and presenting some of the principles of inorganic physical chemistry. Two hours class-room work. Prerequisites: Chemistry 201, and preferably Physics 201 and 202.

* For students desiring to take advanced work in chemistry, a five hour course will be arranged.

304. **ORGANIC CHEMISTRY** *Three hours*
Three lecture hours per week. A continuation of 202, stressing particularly the aromatic compounds. Prerequisites: General Inorganic Chemistry and 202.
- 330m. (10.) **TEACHERS' COURSE** *One hour*
Methods of teaching Chemistry in secondary schools. Prerequisite: two years of chemistry.

Dutch

A. DUTCH LANGUAGE

101. **ELEMENTARY GRAMMAR** *Three or four hours*
Conjugations and declensions. Required outside reading.
102. **ADVANCED GRAMMAR** *Three or four hours*
Review. Full declensions. Syntax. Required outside reading. In class some Dutch works are read.
201. **READING (ELEMENTARY)** *Three hours*
A course in the reading of Dutch folklore and simple literature. Required outside reading.
202. **READING (ADVANCED)** *Three hours*
A course in the reading of simple and more advanced literature. Required outside reading. Oral composition.
303. **FLEMISH RENAISSANCE** *Three hours*
History of Flemish and Dutch literature between 1100 and 1600. Required outside reading and essays. Composition. Given 1932-'33.
304. **DUTCH RENAISSANCE** *Three hours*
History of Dutch literature between 1600 and 1800. The spirit of Dutch Humanism, Calvinism, and Rationalism is discussed. Required outside reading and essays. Composition. Given 1932-'33.
305. **DUTCH ROMANTICISM** *Three hours*
Special study of Bilderdijk and Da Costa. Required outside reading and essays. Given 1933-'34.
306. **MODERN LITERATURE** *Three hours*
The modern movements of Nationalism, Symbolism, and Neoclassicism. Required outside reading and essays. Given 1933-'34.
- NOTE: Courses 101, 102, 303, 304, 305, and 306 and one of the Dutch history courses are required of those who take the pre-Seminary course.

B. MEDIEVAL AND DUTCH HISTORY

323. **THE EARLY MIDDLE AGES (400-1000)** *Three hours*
The rise of Christianity and the Carolingian Empire and the rise of Mohammedanism are discussed after a short review of Greek and Roman civilization. Special attention is paid to the Netherlands during the Roman and Frankish periods. Given 1932-'33.
324. **FIRST RENAISSANCE (1000-1350)** *Three hours*
The Central Middle Ages: Feudalism; France, Germany, and Italy in the feudal period; Crusades, Rise of cities especially in Italy and the Netherlands; Rise of guilds and democracy; Rise of universities, new monasticism, Gothic art, and Romantic literature; Dante. Given 1932-'33.

325. SECOND RENAISSANCE AND REFORMATION (1350-1568) *Three hours*
A short review of the history of the Netherlands up to 1350. The age of unrest. The Christian and the Flemish Renaissance; the Italian Renaissance, and its distribution over Western Europe through the Brethren of the Common Life. The Renaissance spirit. The Reformation and its intensive character in the Netherlands. Given 1933-'34.

326. THIRD RENAISSANCE AND REVOLUTION (1568-1815) *Three hours*
The eighty years' war. The Dutch Golden Age and its influence on Europe. Dutch commerce and colonization. Wars between the Netherlands and other countries for religious and commercial purposes. The triumph of plutocracy and Rationalism in the eighteenth century. The Spirit of the French Revolution as manifested in Holland. The rebirth of Calvinism as a political and cultural power after 1815. Given 1933-'34.

C. DUTCH ART

331. FLEMISH PAINTING *Three hours*
The Flemish and Dutch Primitives and Italianizers between 1400 and 1600; Rubens and Van Dyke and their schools. The course is analytical as well as historical.
332. DUTCH PAINTING *Three hours*
The Dutch Renaissance (1600-1700) and the modern Dutch painters. Prerequisite: Course 331.

Economics and Sociology

The courses in Economics and Sociology are considered as belonging to one department. To avoid confusion in enrolling, the student will please indicate carefully both the number and the name of the course desired.

Freshmen intending to major in this department are advised to begin with 101 and 102, introductory to both economics and sociology.

101. (1.) (*Economics and Sociology*) HUMAN AND ECONOMIC GEOGRAPHY *Three hours*
A study of man's adaptation to and control of his physical environment, with emphasis on the resources of the several economic regions of the world and their effect upon man's habits, industries, trade relations, methods and lines of transportation, and so forth. Intended for those particularly interested in the social sciences and for those specializing in education. A Freshman course.
102. (2.) (*Sociology*) INTRODUCTION TO SOCIOLOGY *Three hours*
An orientation course, including a brief discussion of the principles of sociology and of some of the modern social problems. A Freshman course.
201. (3.) PRINCIPLES OF ECONOMICS *Three hours*
A review of the fundamental principles underlying modern economic life. Not open to Freshmen except by special permission. Students electing 201 are expected to take 202.
202. (4.) PRINCIPLES OF ECONOMICS *Three hours*
A continuation of the principles of economics and an application of the same to current industrial problems and institutions.

203. (5.) SOCIOLOGY *Three hours*
A study of the underlying social relationships with a view to bringing out the essential oneness of the individual and society; including a discussion of the biological and psychological approaches to the study of society, human nature, public opinion, social organization, democracy, etc. Not open to Freshmen, except by special permission.
204. (6.) SOCIAL PROBLEMS *Three hours*
A continuation of 203 with a further application of the principles of sociology to the outstanding social institutions; including a discussion of the more prominent of the present-day social problems.
301. (7.) (*Economics*) THE FINANCIAL ORGANIZATION OF SOCIETY *Three hours*
A study of the nature and functions of money, with a view to the understanding of the complex rôle of currency systems in our national and international life. A detailed study of the functions of banking, the Federal Reserve, private financial institutions, foreign trade, and so forth. Prerequisite: 201 and 202 or their equivalents.
302. (8.) (*Economics*) BUSINESS ORGANIZATION AND COMBINATION (Corporation Finance) *Three hours*
A continuation of 301. The financial promotion of corporations and of trusts; the trust problem. Given 1933-'34.
303. (9.) (*Economics and Sociology*) LABOR PROBLEMS AND TRADE UNIONISM *Three hours*
The historical background of the modern labor movement, the controversies between capital and labor, and the various solutions offered. A careful study of the history, nature, and problems of trade unionism. Prerequisite: 201 and 202, or 203 and 204.
304. (12.) (*Sociology*) THE FAMILY *Two or three hours*
This course will be adapted to suit the needs of the students. It aims, however, at an intensive study of the history of the family as a social and educational institution, and at a thorough discussion of the divorce problem and other problems connected with modern family life. Prerequisites: 102, 203, and 204, or their equivalents.
309. (*Sociology*) EDUCATIONAL SOCIOLOGY *Three hours*
This course is offered in the department of Education.
308. (*Economics*) PRINCIPLES OF MARKETING *Three hours*
A study of the marketing functions, the marketing of particular commodities, the functions and modes of operation of middlemen, associative activities affecting marketing, price policies, etc. Given in 1932-'33.

Education

101. (1.) INTRODUCTORY PSYCHOLOGY *Three hours*
A general course in psychology for beginners with some reference to the implications of psychology for pedagogy.
102. (2.) EDUCATIONAL PSYCHOLOGY *Three hours*
Course 101, or its equivalent, is a prerequisite.
103. THE JUNIOR HIGH SCHOOL *Two hours*
Not offered after June, 1931.

104. GENETIC PSYCHOLOGY *Three hours*
A study of the psychology of the child. Course 101, or its equivalent, is a prerequisite. Not offered 1933-'34.
301. (3.) PRINCIPLES OF EDUCATION *Three hours*
A study of the aim of education and of the various underlying problems.
302. (4.) THE PRACTICE OF EDUCATION *Three hours*
This course deals with the teaching process and with problems pertaining to class management. Not offered after 1932-'33.
303. HISTORY OF EDUCATION *Three hours*
A brief survey in one semester of the history of education since the Middle Ages. Educational development will be viewed in the light of religious, social, economic, and political changes. Students taking this course should in their first or second year take one or two courses in history.
305. (5.) HISTORY OF EDUCATION *Three hours*
A survey of the growth of educational theory and practice during the ancient and mediæval periods.
306. (6.) HISTORY OF EDUCATION *Three hours*
A continuation of 305 covering the modern period.
307. (7.) SCHOOL ADMINISTRATION *Two hours*
This course aims to discuss the organization and management of state and local school systems.
308. (8.) PRINCIPLES AND METHODS OF SECONDARY EDUCATION *Three hours*
A study of secondary school problems. Special attention is given to the phenomena and problems of adolescence.
309. EDUCATIONAL SOCIOLOGY *Three hours*
A study of social structure and educational practice with emphasis on present-day problems.
312. ABNORMAL PSYCHOLOGY *Three hours*
A study of disorders of sensation, perception, association, etc. Some study is made of hypnosis, hysteria, and other subjects usually considered under the heading Abnormal Psychology, especially, too, the phenomena and problems of insanity. Course 101, or its equivalent, is a prerequisite.

COURSES IN METHODS

221. PRINCIPLES OF TEACHING IN ELEMENTARY SCHOOLS *Three hours*
Various units of work will be presented, such as characteristics of method, the problem of individual differences, controlling principles of the Public School and the Christian School in the United States, etc.
223. PRINCIPLES OF TEACHING IN SECONDARY SCHOOLS *Three hours*
The principles of teaching will be discussed in the light of Morrison's *The Practice of Teaching in the Secondary Schools*. This course is intended especially for students looking for teaching positions in the junior and senior high schools.

225. PRINCIPLES OF KINDERGARTEN-PRIMARY GRADES TEACHING *Two hours*
The following units will be taken up: a brief history of the kindergarten past and present; the capital of the child in kindergarten and primary grades; and the content of the curriculum with special emphasis on project teaching.
230. METHODS OF TEACHING READING, GEOGRAPHY, AND BIBLE *Three hours*
The new approaches in teaching reading and geography with emphasis on the experimental phase will be taken up. Bible teaching will be considered with reference to elementary schools.
232. METHODS OF TEACHING HISTORY *Three hours*
Two hours per week will be devoted to content and one to method. The content aspect of the course will consist of a survey of the history of the United States. In the method hour, methods of teaching history from the lower grades through those of the junior high school will be discussed. The method hour is intended also for four year college students majoring in history.
234. METHODS OF TEACHING ARITHMETIC *Three hours*
Both content and methods in arithmetic throughout the grades will be considered.
236. METHODS OF TEACHING MUSIC *Two hours*
The student will get practice to lead a class in the elementary school in singing as the major part of teaching technique in elementary school music. Demonstration lessons will be observed by the class as a whole.
238. METHODS OF TEACHING ENGLISH *One, two, or three hours*
Content as well as method receives attention. Same as English 330m.
240. METHODS OF TEACHING LATIN *Three hours*
Same as Latin 327 and 330m combined.
310. EDUCATIONAL MEASUREMENTS *Three hours*
A survey course of present-day practices of measuring the results of teaching.
321. DIRECTED OBSERVATION OF TEACHING AND LESSON PLANNING *Three hours*
About one-third of the time is spent in the schools of Grand Rapids with specific instructions for directed observation. The other two hours are devoted to conferences and class discussion of reports. Each student is required to write four intensive reports. For students planning to teach in the elementary schools. To be taken the first semester of their Senior year.
322. PRACTICE OF TEACHING *Three hours*
One of three hours is set aside for practice teaching. The other two are used for an investigation into the technique of teaching language usages, grammar, and composition.
324. DIRECTED OBSERVATION AND LESSON PLANNING *Three hours*
This course is like Education 321 and is for students looking for positions in the junior and senior high schools. To be taken the second semester of their Junior year.

325. PRACTICE TEACHING *One hour*
 Course 324 is a prerequisite. This one hour consists of actual teaching in our Practice School during the first semester of the Senior year.
326. METHODS OF TEACHING IN SECONDARY SCHOOLS *Three hours*
 Not offered after June, 1931.
- 330m. THE TEACHING OF LATIN OR ENGLISH, ETC.
 Teachers' courses offered in the various departments are all indicated by the number 330 followed by the letter *m*. For description see under the department wanted.

Engineering Drawing and Statics

101. MECHANICAL AND MACHINE DRAWING *Three hours*
 The principles of orthographic projection; practice in the making of working drawings; practice in lettering; and tracing. Three two-hour drafting-room periods, three hours home work a week.
102. DESCRIPTIVE GEOMETRY *Three hours*
 Exercises, instruction, and drill through the medium of 80 printed plates of problems comprising combinations of the point, line, and plane, intersections, developments, tangent planes, and warped surfaces. Three two-hour drafting-room periods, three hours home work a week. Prerequisite: 101.
201. MECHANISM AND SKETCHING *Two hours*
 Sketching of models in orthographic, isometric, and oblique projection; practice in the making of working drawings from sketches; free-hand lettering; special practice in, and application of, drawings. Two two-hour drafting-room periods, two hours home work a week. Prerequisite: 101.
302. STATICS *Four hours*
 Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Forces, components, moments, cables, friction, centroids, moments of inertia. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 302 and Physics 202.

English

103. FRESHMEN ENGLISH *Three hours*
 This is a basic course required of all Freshmen.
104. FRESHMEN ENGLISH *Three hours*
 This is a continuation of the preceding course. Both 103 and 104 are prerequisites to all other courses in English.
201. (11.) AMERICAN LITERATURE *Three hours*
 From the beginning to 1840. A study of the religious, political, social, and artistic background of our national culture.
202. (12.) AMERICAN LITERATURE *Three hours*
 The New England group, post-bellum realism, the historical romance, naturalism, and the new poetry.
205. FROM THE BEGINNING TO 1600 *Three hours*
 Emphasis upon Beowulf, the metrical romance, Chaucer, the humanists, and the non-dramatic writers of the Elizabethan age. Not given in 1933-'34.

207. (15.) THE ELIZABETHAN PERIOD *Three hours*
 A study is made of the Renaissance as it manifests itself in literature, particularly in drama.
208. (16.) THE SEVENTEENTH CENTURY *Three hours*
 The Cavalier and the religious poets, Milton and Bunyan, and the restoration authors.
301. (17.) THE ROMANTIC MOVEMENT *Three hours*
 History and characteristics of Romanticism. Emphasis upon Wordsworth, Coleridge, Byron, Shelley, and Keats.
302. (18.) THE VICTORIAN PERIOD *Three hours*
 Survey of the period, with special attention to Tennyson, Browning, and Matthew Arnold.
303. (19.) CONTEMPORARY LITERATURE OF ENGLAND *Two or three hours*
 Fiction from 1890 to the present day. The work is related to continental fiction. Open to Seniors.
304. (20.) CONTEMPORARY LITERATURE OF ENGLAND *Two or three hours*
 Drama and poetry since 1890 are considered in connection with continental movements and the authors representing them. Open to Seniors.
305. (3.) PRINCIPLES OF LITERATURE *Three hours*
 Literature: its place in philological encyclopedia and æsthetics, its nature, its various forms, and kindred topics.
306. (4.) ADVANCED RHETORIC *Three hours*
 Open only to those who receive special permission.
309. DEBATING *One or two hours*
 Two hours of credit are given to students who take part in intercollegiate debating, and one hour to those who take part in the Broodman contest or serve as substitutes in the intercollegiate contests.
- 330m. TEACHERS' COURSE *One, two, or three hours*
 Review of English Grammar, and a study of the methods of teaching English in secondary schools. Prerequisite: at least seven of the courses offered in this department.

French

101. (1.) ELEMENTARY FRENCH *Four hours*
 Grammar, pronunciation, composition, dictation, oral drill, and conversation are intended to impart a certain amount of ear-training and ability to understand simple spoken French.
102. (2.) CONTINUATION OF 101 *Four hours*
 Text in both courses: Olmsted and Sirich, *Beginners' French Grammar*. This is followed by the reading of easy prose.
201. (3.) INTERMEDIATE FRENCH *Three hours*
 Reading of about two hundred pages of easy nineteenth century text. Special stress on idiom. Composition based on text read. Prerequisite: 101 and 102.

202. (4.) CONTINUATION OF 201 *Three hours*
Reading of about three hundred pages of modern prose. Composition and thorough review of grammar throughout the year. About six hundred pages of outside reading is required for the year.
301. (5.) THE ROMANTIC MOVEMENT *Three hours*
A history of French literature of the first half of the nineteenth century. Collateral reading and reports. Prerequisite: 101 to 202.
302. (6.) NINETEENTH CENTURY—SECOND HALF *Three hours*
A history of French literature since the middle of the nineteenth century. Collateral reading and reports. Prerequisite: 101 to 202.
303. (7.) THE CLASSIC PERIOD *Three hours*
A study of French literature and culture in the seventeenth century as a background for the more detailed study of the classic authors. One drama is read in class, others are assigned for outside reading. Prerequisite: 202.
304. (8.) THE CLASSIC PERIOD *Three hours*
A continuation of 303, dealing with the later seventeenth century literature, with special attention to Moliere and Racine. A drama of Racine is read in class. A few dramas are assigned for outside reading. Anthology in both courses. Schinz and King's *Seventeenth Century Readings*. Prerequisite: 202 and 303. Courses 303 and 304 are not offered during 1933-'34.
- 330m. METHODS OF TEACHING MODERN FOREIGN LANGUAGES *One hour*
Intended for prospective teachers of French in secondary schools. Prerequisite: six of the courses offered in this department.

German

101. (1.) ELEMENTARY GERMAN *Four hours*
Grammar and composition. Text: Vos's *Essentials*.
102. (2.) CONTINUATION OF 101 *Four hours*
Completing first thirty-two lessons of Vos's *Essentials*. Reading of at least one hundred pages of *modern prose and poetry*.
201. (3.) INTERMEDIATE GERMAN *Three hours*
Reading of nineteenth century prose. Vos's *Essentials* completed. Review of the more important parts of grammar. Composition and dictation. Prerequisite: 101 and 102.
202. (4.) INTERMEDIATE GERMAN CONTINUED *Three hours*
Intensive study of modern prose and poetry. By stress upon idiom and otherwise, effort is made throughout the year to create *Sprachgefühl*. Outside reading with reports required to the extent of at least eight hundred pages for the year. Prerequisite: 201.
301. (5.) THE ROMANTIC PERIOD *Three hours*
A survey of German literature of the first half of the nineteenth century. Collateral reading and reports. Prerequisite: 202.

302. (6.) REALISM *Three hours*
History of German literature since the middle of the nineteenth century. Collateral reading and reports. Prerequisite: 202.
303. (7.) EARLY NINETEENTH CENTURY DRAMA *Three hours*
A comprehensive study of the lives and works of leading German dramatists of the early nineteenth century. Assigned readings. Papers on related subjects. Prerequisite: 202.
304. (8.) LATER NINETEENTH CENTURY DRAMA *Three hours*
A study of Hauptmann and Sudermann and their times. Assigned readings and reports. Prerequisites: 202 and 303. Courses 303 and 304 are not offered during 1933-'34.
305. (9.) THE CLASSIC PERIOD *Three hours*
A general survey of German literature in the eighteenth century as far as Lessing and with special attention to him. A drama of Lessing read in class. Collateral reading and reports. Prerequisite: 202.
306. (10.) THE CLASSIC DRAMA *Three hours*
A study of the lives and works of Schiller and Goethe. One or two of their dramas are read. Reports on assigned topics. Prerequisite: 202 and 305. Courses 305 and 306 are not offered during 1933-'34.
- 330m. METHODS OF TEACHING MODERN FOREIGN LANGUAGES *One hour*
Intended for prospective teachers of German in secondary schools. Prerequisite: six of the courses offered in this department.

Greek

101. (1.) BEGINNERS' GREEK *Four hours*
Text: Burgess and Bonner, *Elementary Greek Book*. 1932-'33, 1933-'34.
102. (2.) BEGINNERS' GREEK *Four hours*
Continuation of 101. Completion of the text and the reading of the first book of Xenophon's *Anabasis*, or its equivalent. 1932-'33, 1933-'34.
201. (3.) XENOPHON *Three hours*
Selections from the *Anabasis*. Prerequisite: 101-102. 1932-'33, 1933-'34.
202. (4.) HOMER'S ILLIAD *Three hours*
Text: Leaf and Bayfield, Books I-XII. 1932-'33.
202. (4.) HOMER'S ODYSSEY *Three hours*
Books I-XII. 1933-'34.
301. (5.) PLATO *Three hours*
The *Apology*, *Crito*, and *Phaedo* are read. 1932-'33. The *Protagoras* and *Gorgias*. 1933-'34.
302. (6.) PLATO *Three hours*
The *Republic* is read. 1932-'33, 1933-'34.
313. (13.) NEW TESTAMENT GREEK *Two hours*
The Gospel according to Mark is read. Prerequisite: 101-102. 1932-'33, 1933-'34.

314. (14.) NEW TESTAMENT GREEK *Two hours*
Study is made of some of the Pauline Epistles. Prerequisite: 101, 102, and 313. 1932-'33, 1933-'34.
315. (25.) GREEK CULTURE *Three hours*
An elective course. No knowledge of Greek is required. The main features of Greek culture are discussed. Not open to Freshmen. 1932-'33, 1933-'34.
316. GREEK THOUGHT AND THE NEW TESTAMENT *Three hours*
No knowledge of Greek is required. Open to Juniors and Seniors. 1932-'33, 1933-'34.

History

101. (1a.) EUROPE SINCE 1815 *Three hours*
The general history of Europe since 1815, with emphasis on such topics as the revolutionary movement in France, the unification of Germany, the rise of Socialism. Discussion and assigned reading. Presupposes a high school course in General History.
102. (2a.) EUROPE SINCE 1815 *Three hours*
A continuation of 101, which is prerequisite. Courses 101 and 102 are for Freshmen; open to Sophomores by special arrangement.
201. (3.) EASTERN EUROPE SINCE 1815 *Three hours*
Russia from 1815 to the near present. Lectures, readings, and reports. Prerequisites: 101 and 102. For Sophomores and Juniors. Given in 1932-'33.
202. (4b.) EASTERN EUROPE SINCE 1815 *Three hours*
The Balkan States, Austria, Hungary, and Czecho-Slovakia. Lectures, readings, and reports. Prerequisites: same as 201.
203. (5.) ENGLISH HISTORY TO 1600 *Three hours*
An outline of the Political and Constitutional History of England. Prerequisites: 101 and 102. For Sophomore and Junior year.
204. (6.) ENGLISH HISTORY SINCE 1600 *Three hours*
Continuation of 203, which is prerequisite.
301. (7.) AMERICAN HISTORY *Three hours*
Lectures and readings. Prerequisite: A high school course in American History.
302. (10.) AMERICAN HISTORY *Three hours*
Continuation of 301, which is prerequisite. Courses 301 and 302 are open to Juniors and Seniors.
303. (11.) AMERICAN FOREIGN RELATIONS *Three hours*
The diplomatic relations of the United States since 1789 with the principal countries of Europe and with China and Japan. Prerequisite: high school course in American History. Given 1933-'34.
304. (12.) AMERICAN FOREIGN RELATIONS *Three hours*
Diplomatic relations with South American countries. Origin and development of the Monroe Doctrine. Courses 303 and 304 open to Juniors and Seniors.

323. THE EARLY MIDDLE AGES (400-1000) *Three hours*
See page 35.
324. FIRST RENAISSANCE (1000-1400) *Three hours*
See page 35.
325. SECOND RENAISSANCE AND REFORMATION (1400-1568) *Three hours*
See page 36.
326. THIRD RENAISSANCE AND REVOLUTION (1568-1815) *Three hours*
See page 36.
- 330m. (9.) TEACHERS' COURSE
Methods of teaching history in secondary schools. Prerequisite: twenty-one to twenty-two hours of history.

Latin

Students who expect to teach Latin and are candidates for a State Teachers' Certificate, must have completed at least twenty-two hours of work in this department beyond the two units required for admission, and must include Courses 320, 327, 330m.

Students who expect to graduate from the four-year pre-Seminary Course must complete twelve semester hours beyond the two units of Latin required for admission, and must include Courses 202, 301, and 308. Those who with admission offer more than two units of Latin may reduce the requirements by three semester hours for every unit taken in the high school beyond the two units.

- 101-102. (1a and 1b.) ELEMENTARY LATIN *Five hours first semester*
This course covers one unit of Latin for entrance to college and is intended for those who have had no Latin in their high school course. No credit is granted for 101-102 unless credit has been earned for 103-104.
- 103-104. (1b and 2b.) SECOND YEAR LATIN *Five hours second semester*
The equivalent of four books of Caesar's *Gallie Wars* is read. Equivalent to one unit of Latin for admission.
105. (1.) ROMAN ORATORY *Three hours*
Catilinarian orations of Cicero and Latin prose composition. This course is offered for those students who present two units of Latin for admission.
200. (3.) POETRY *Three hours*
Selections from the various works of Ovid. Study of Latin prosody and Roman mythology.
Students will be given the privilege to select this course or Horace 306.
202. (4.) POETRY (Continued) *Three hours*
Parts of Books I to VI of Virgil's *Aeneid*. Translation and interpretation, metrical reading, and studies in Roman mythology.
301. (5.) PHILOSOPHICAL TREATISES *Three hours*
Cicero's *De Senectute* and *De Amicitia*. Papers by the students on assigned subjects.
303. (7.) ROMAN HISTORIANS *Two or three hours*
Livy, Book XXI: the history and the life of Rome during the period of the Punic Wars.

305. (9.) ROMAN COMEDY *Two or three hours*
Terence: *The Adelphi* and the *Andria*. Not offered in 1933-'34.
306. (11.) HORACE: *Odes and Epodes* *Two or three hours*
See note under 200.
308. CHRISTIAN AND MEDÆVAL LATIN LITERATURE *Three hours*
This is a combination of Courses 302 and 304 of former years. It comprises several Christian Latin hymns, parts of Augustine's *Confessions*, and selections from various writers of Latin prose and poetry from the fifth century to the Renaissance.
320. (10.) ROMAN CULTURE *Two hours*
This course is required of all students who expect to teach Latin, and is open to students who have had at least two units of high school Latin. In this course such subjects as these will be studied: travel and correspondence; Rome, the Imperial City; the family and the position of women; children and education; religion and philosophy, and so forth. Lectures, text-books, assigned readings, term papers. Illustrated with slides.
327. (14.) LATIN GRAMMAR AND WRITING *Two hours*
In this course a thorough review of Latin grammar and syntax will be made, and attention will be given to Latin writing. Parts of Cæsar and Cicero will be carefully studied and reviewed.
This course and 330m may be offered as a three hour Methods Course in the department of Education. Same as Education 240.
- 330m. (12.) TEACHERS' COURSE *One hour*
This course is required of all students who expect to teach Latin, and who seek to obtain a State Teachers' Certificate. It is open to such only as have had at least twenty semester hours in addition to two units of high school Latin. In this course study will be made of the problems and methods of teaching secondary Latin.
This course will be offered either the first or second semester to meet the convenience of the students interested.

Mathematics

101. (1.) ALGEBRA *Three hours*
For those who have had only one year of Algebra in high school.
102. (2.) SOLID GEOMETRY *Three hours*
103. (3.) COLLEGE ALGEBRA *Three hours*
Prerequisite: 101.
104. (4.) PLANE TRIGONOMETRY *Three hours*
Prerequisite: 101 and 103.
201. (5.) PLANE ANALYTIC GEOMETRY *Four hours*
Prerequisite: 103 and 104.
202. (6.) CONTINUATION OF 201 *Four hours*
Plane Analytical Geometry completed and introduction to Solid Analytical Geometry.
301. (7.) DIFFERENTIAL CALCULUS *Five hours*
Prerequisite: 201 and 202.
302. (8.) INTEGRAL CALCULUS *Five hours*
Completion of Integral Calculus and introduction to Differential Equations.

303. (9.) DIFFERENTIAL EQUATIONS *Three hours*
Prerequisite: 301 and 302.
304. (10.) THEORY OF EQUATIONS *Three hours*
Prerequisite: 103, 201, and 202.
305. (11.) PROJECTIVE GEOMETRY *Three hours*
This will be offered if one of the other courses for this semester is not elected by enough students.
307. (13.) SOLID ANALYTICAL GEOMETRY *Three hours*
Prerequisite: 301 and 302.
- 330m. (12.) TEACHERS' COURSE *One hour*
Discussion of methods of teaching Mathematics in secondary schools. Twenty hours of observation work are required.

Music

- 101-102. CHORUS *One hour*
The study of representative works of the great masters of choral writing with a view to public performance. Handel's *Messiah* is rendered annually at Christmas time.
Open to all who meet the requirements of voice and musicianship.
201. MUSIC THEORY *Two hours*
The elements of music. Drill in notation, time, and rhythmic values, scales, and signatures. The course aims to acquaint the student with elementary school music, both in content and organization.
236. MUSIC METHODS *Two hours*
Methods of teaching elementary school music. Teaching of rote songs and simple art songs. Each student has practice in directing the class in singing. Demonstration lessons.
203. HARMONY *Two hours*
A threefold approach to the elements of harmony through the ear, eye, and hand or keyboard. Written work and class exercises. The writing and analysis of simple hymn tunes and a study of their chords. Primary triads, dominant seventh.
204. HARMONY (Continuation of 203) *Two hours*
Secondary triads, dominant seventh, dominant ninth and their inversions.
205. HISTORY OF MUSIC *Three hours*
The development of the art of music from the earliest times to the present. Oratorio and church music, the opera, songs, and instrumental music. Biographies of composers. Representative compositions of each main period presented in class. Lectures, collateral reading, term papers, and text-book work. 1933-'34.
206. HISTORY OF MUSIC *Three hours*
Continuation of 205.
- 207-208. SINGING
Individual lessons for the development of the voice and the memorizing of a repertoire of sacred and secular art songs and arias from the great oratorios and operas. One twenty-five minute period a week.

209. ORGAN *One hour*
Individual lessons in pipe organ, beginning with the fundamental principles of organ touch, pedal technique, hymn-tune playing and registration, and followed by preparation for concert playing and for church service. Professor Van Andel in charge.
210. ORGAN *One hour*
Continuation of 209.
- 211-212. MUSIC APPRECIATION *Six hours*

Organic Science

101. (1.) FUNDAMENTALS OF ZOÖLOGY *Four hours*
The more significant principles of animal biology, such as classification, anatomy, physiology, embryology, heredity, and evolution are studied. Three recitations and three hours of laboratory work a week. Laboratory fee, \$3.00.
102. (2.) HUMAN PHYSIOLOGY *Two hours*
A study of some vital phenomena occurring in man. Course 101 is a desirable antecedent.
103. (4.) PERSONAL HYGIENE *Two hours*
The care of the human body. This course must be preceded by 102.
106. HUMAN ANATOMY AND PHYSIOLOGY *Four hours*
A course primarily for pre-Medical students, open to others only by permission. Three recitations and three hours of laboratory work a week. Laboratory fee, \$3.00. Prerequisite: 101.
201. (5.) INVERTEBRATE ZOÖLOGY *Four hours*
Anatomy, physiology, behavior, and classification of animals representative of the invertebrate groups. Economic forms are emphasized. Three recitations and three hours of laboratory work a week. Laboratory fee, \$3.00. Prerequisite: 101. Not given in 1933-'34.
202. (6.) INTRODUCTION TO BOTANY *Four hours*
Anatomy, physiology, economics, breeding, and classification of seed plants. Three recitations and three hours of laboratory work a week. Laboratory fee, \$3.00.
- 203-204. (7.) PLANT MORPHOLOGY *Four hours*
The classification of plants based upon a comparative study of their flowers. Frequent trips will be made to greenhouses, parks, and fields. Two hours each semester. Prerequisite: 202.
302. (8.) VERTEBRATE ZOÖLOGY *Four hours*
Comparative anatomy and natural history of vertebrates. Evolution problems are emphasized. Three recitations and three hours of laboratory work a week. Laboratory fee, \$3.00. Prerequisites: 106 and 201. Courses 305 and 309 are desirable antecedents.
- 303-304. (13 and 14.) LABORATORY METHODS *One or two hours*
Collection, preparation, and preservation of laboratory materials. Maintenance of laboratory cultures. Microscopic technique: killing, fixing, dehydrating, embedding, sectioning, staining, and mounting of microscopic preparations for botany, zoölogy, and physiology. Laboratory fee, \$3.00. Three hours of laboratory work a week during the first semester.

305. (9.) BIOLOGICAL PROBLEMS *Three hours*
History of biology, the nature of the individual, variation of organisms, evidences for evolution, and organic teleology. Lectures, assigned readings, recitations, and reports. Prerequisite: 101.
- 307-308. (15 and 16.) SPECIAL BIOLOGY *Three hours*
A more intensive study of biological problems selected to meet the needs of advanced students. This course will be offered only when there are no students for 309.
309. (10.) INTRODUCTION TO EMBRYOLOGY *Three hours*
An elementary study of the development of vertebrate animals. Two recitations and three hours of laboratory work a week. Laboratory fee, \$3.00. Not to be elected at the same time with 303.
- 330*m*. (12.) TEACHING OF BIOLOGY *One hour*
The point of view, contents, and methods of teaching secondary school botany, zoölogy, and human physiology and hygiene. Prerequisites: all preceding courses in Organic Science.

Philosophy

Courses 201 and 202 are not considered as Philosophy in the hours prescribed for the General College Course.

201. (1.) PSYCHOLOGY *Three hours*
A general course in psychology with special attention to the philosophical implications. Exercises. Open to Freshmen by permission.
202. (2.) LOGIC *Three hours*
A course in traditional and elementary symbolic logic. Text and exercises. This is a semester course which is offered both in the first semester and in the second.
203. (3.) INTRODUCTION TO PHILOSOPHY *Three hours*
An attempt to make the student aware that he is constantly and inescapably answering questions of fundamental import, to give him some notion of what these questions are philosophically, and to acquaint him with the method of solution. Lectures, discussions, and papers.
204. (4.) HISTORY OF PHILOSOPHY TO ST. AUGUSTINE *Three hours*
An attempt by discussion to appreciate the problems and method of philosophy as incorporated in the historic development. Emphasis is on the implicit movement. Collateral reading, including fragments from the translated sources. Papers. Prerequisite: 203.
301. (5.) HISTORY OF PHILOSOPHY FROM ST. AUGUSTINE TO KANT *Three hours*
Continuation of 204. Prerequisite: 203 and 204.
302. (6.) HISTORY OF PHILOSOPHY KANT AND AFTER *Three hours*
An intensive study of this period, its setting, the problems solved, and those raised. Especial attention to the movement of idealism and to philosophy in America. Lectures, discussions, readings, papers. Prerequisite: 301.

303. (7.) ETHICS *Three hours*
Lectures, discussions, and papers on the problems and methods in ethics with emphasis on the relation to religion and metaphysics. Papers. Prerequisite: 302.
304. (8.) METAPHYSICS *Three hours*
Lectures, discussions, and papers. Text: Bradley's *Appearance and Reality*, Taylor's *Elements of Metaphysics*. Prerequisite: 303.
306. METAPHYSICAL IMPLICATIONS OF CHRISTIANITY *Three hours*
Lectures, readings, discussions, and papers on the view of reality expressed and implied in Christianity. Prerequisite: 303. Either Course 304 or Course 306 will be offered during 1933-'34.

Physics

201. (1.) GENERAL PHYSICS *Four hours*
Mechanics, molecular physics, heat. Prerequisites: high school physics and a course in plane trigonometry. Three class periods and one laboratory period. Laboratory fee, \$3.00.
202. (2.) GENERAL PHYSICS *Four hours*
Electricity, sound, and light. Three class periods and one laboratory period per week. Laboratory fee, \$3.00.
203. (5.) PROBLEM COURSE *One hour*
A course required of engineering students. It should accompany 201.
204. (6.) PROBLEM COURSE *One hour*
Continuation of 203. This course should accompany 202.

Political Science

301. (1.) INTRODUCTION TO POLITICAL SCIENCE *Three hours*
The origin, nature, and essential elements of the state. State forms and forms of government. Sovereignty and the relation of states to one another. Lectures and collateral reading. Given 1932-'33.
302. (2.) INTRODUCTION TO POLITICAL SCIENCE *Three hours*
Continuation of 301, which is prerequisite.
303. (3.) AMERICAN CONSTITUTIONAL LAW *Three hours*
Practical operation of Federal and state constitutions. The relations of government to the business and social interests of the people. Interpretation of the constitution by the various departments of the government. Given 1933-'34.
304. (4.) AMERICAN CONSTITUTIONAL LAW *Three hours*
Continuation of 303, which is prerequisite.
Courses 301 to 304 are open to Juniors and Seniors.

Public Speaking

ORATORY. One hour of credit for not more than one semester is offered to students who participate in intercollegiate speaking contests.

DEBATING. Two hours of credit is given to students who take part in intercollegiate debating and one hour for those who take part in the finals; that is, in the Broodman contest and as substitute in the intercollegiate contest.

101. STORY TELLING *Two hours*
Throughout the course the major emphasis will fall on practice in story telling in view of elementary school needs.
103. SPEECH-MAKING *Two hours*
The writing and delivery of short original speeches and orations to develop a direct, forceful, conversational style.
104. SPEECH-MAKING *Two hours*
Continuation of 103, together with a study of speech form and speech qualities.
201. INTERPRETATIVE READING *One hour*
The principles of interpretation and expression. Oral interpretation of representative selections before the class. Not offered during 1933-'34.
202. INTERPRETATIVE READING *One hour*
Continuation of 201.
203. GREAT ORATORS *One hour*
Study of great English orators. Declamations and topical speeches.
204. GREAT ORATORS *One hour*
Study of great American orators. Declamations and topical speeches.
301. ADVANCED SPEECH COMPOSITION *Two hours*
A study of the psychological techniques involved in effective speech composition. Speeches and orations. Intended for seniors of the pre-seminary course.
303. INTERCOLLEGIATE EXTEMPORE SPEAKING *One hour*
305. INTERCOLLEGIATE PEACE ORATORY *One hour*
307. INTERCOLLEGIATE ORATORY (M. O. L.) *One hour*