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.

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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, 8:00 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. ........................................Enrollment of New Students.
September 6-7, 9:00 A.M. ...................................Registration for First Semester.
September 7-9 ........................................................Re-examinations.
November 30-Dec ................................................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. ........................................Enrollment 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 Doffin..............................................President
The Rev. Wm. P. Van Wyk......................................Vice-President
The Rev. Lambertus J. Lamberta..............................Secretary
The Rev. Daniel Zwieker.......................................Assistant Secretary

MEMBERS
CLASSIS CALIFORNIA Term Expires
The Rev. Martin M. Schans.........................Redlands, Calif...........1924
The Rev. Richard J. Frenz......................San Francisco, Calif........1928
CLASSIS GRAND RAPIDS EAST
The Rev. William P. Van Wyk..................Grand Rapids, Mich.........1924
The Rev. James Brinmooge.......................Holton, Mich...............1926
CLASSIS GRAND RAPIDS WEST
The Rev. Ymam P. De Jong, Th.D............Grand Rapids, Mich.........1924
The Rev. Gerrit Hefnawy..............Grand Rapids, Mich...............1926
CLASSIS HACKENSACK
The Rev. John J. Hageman.....................Parsippany, N. J.............1924
The Rev. Dirk De Beer..........................Passaic, N. J...............1928
CLASSIS HOLLAND
The Rev. Daniel Zwieker....................Holland, Mich................1934
The Rev. Lambertus Veilkamp................Holland, Mich................1930
CLASSIS HUDSON
The Rev. James Holwerda..................Paterson, N. J................1924
The Rev. John Walkotten.....................Paterson, N. J................1926
CLASSIS ILLINOIS
The Rev. Peter A. Hoekstra...............Cicero, Ill.....................1924
The Rev. Gerrit Hoekema..........................Chicago, Ill...............1930
CLASSIS MUSKEGON
The Rev. Lambertus J. Lamberta..........Fremont, Mich................1934
The Rev. John Doffin.........................Muskegon, Mich..............1926
CLASSIS ORANGE CITY
The Rev. Ralph Broekema, Th.D...........Orange City, Iowa..............1924
The Rev. William Bayema......................Sheldon, Iowa.................1925
CLASSIS OSTFRIESLAND
The Rev. Edward Beeve..........................Wellsburg, Iowa.............1924
The Rev. William Bode, Th.D..............Champaign, Ill.................1928
CLASSIS PACIFIC
The Rev. Jacob Mohler......................Noblesford, B.C., Canada....1924
The Rev. Isaac Westra.......................Lynden, Wash................1926
CLASSIS PELLA
The Rev. Dirk Hollebeek.....................Pella, Iowa...................1934
The Rev. Idsert Van Dellen......................Denver, Colo................1930

BOARD OF TRUSTEES 7

CLASSIS SIoux CENTER Term Expires
The Rev. John H. Geerlings..............New Holland, S. Dak...........1924
The Rev. John W. Dykstra..................Sioux Center, Iowa...........1926
CLASSIS WISCONSIN
The Rev. William Terpstra..............Sheboygan, Wis................1924
The Rev. John C. Schaap......................Oceana, Wis................1926
CLASSIS ZEELAND
The Rev. Eho J. Krohn......................Hudsonville, Mich.............1924
The Rev. William Kok.........................Zeeland, Mich..............1926

EXECUTIVE COMMITTEE
The Rev. Lambertus Veilkamp, President
The Rev. Lambertus J. Lamberta, Secretary
The Rev. James Brinmooge
The Rev. Ymam P. De Jong, Th. D.
The Rev. Eho J. Krohn

COMMITTEE ON FINANCES
Mr. Gerrit J. Rosa, President
Mr. Gerrit J. Rosa, Secretary
Mr. John Rehman
Mr. Benjamin W. Hertel

Mr. Tony Noordewier, Treasurer............855 Kalamazo 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..................1330 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 ROOK, A. M., Dean
Professor of the Latin Language and Literature
737 Benjamin Avenue, S. E. Telephone 5-1221

KLAAS SCHOUFLAND
Professor Emeritus of the Greek Language and Literature
854 Warden Street, S. E. Telephone 5-7188

JACOB G. VAN DEN BOSCH, A. M.
Professor of the English Language and Literature
807 Bates Street, S. E. Telephone 5-6054

ALBERT E. BROEKE, A. B.
Professor of Modern Languages
1417 Thomas Street, S. E. Telephone 3-3835

JOHANNES BROEKE, A. M.
Professor of Education
1469 Pink Street, S. E. Telephone 5-9930

JOHN P. VAN HAYSTMA, Ph. D.
Professor of Organic Science
1021 Benjamin Avenue, S. E. Telephone 3-8765

JANNA NIEUWPOORT, B. S.
Professor of Mathematics
900 Benjamin Avenue, S. E. Telephone 3-8765

HENRY J. G. VAN ANDER, A. M.
Professor of the Holland Language and Literature
1291 Giddings Avenue, S. E. Telephone 5-6996

PIETER HILSTRA, Ph. D., Secretary
Professor of History and Political Science
1013 Warden Street, S. E. Telephone 3-4710

RALPH SYOB, Ph. D.
Professor of the Greek Language and Literature
1301 Calvin Avenue, S. E. Telephone 3-4803

HENRY J. RYKAMP, Ph. D.
Professor of Economics and Sociology
1291 Sherman Street, S. E. Telephone 2-8857

WILLIAM HARRY JELLEMA, Ph. D.
Professor of Philosophy
1312 Giddings Avenue, S. E. Telephone 5-3098

HARRY G. DECKER, M. S., Registrar
Professor of Chemistry
1309 Alexander Street, S. E. Telephone 3-4494
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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra</td>
<td>1 unit</td>
</tr>
<tr>
<td>English</td>
<td>3 units</td>
</tr>
<tr>
<td>Dutch, French, German, Greek, or Latin</td>
<td>2 units</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra</td>
<td>1 unit</td>
</tr>
<tr>
<td>English</td>
<td>3 units</td>
</tr>
<tr>
<td>German</td>
<td>2 units</td>
</tr>
</tbody>
</table>
For admission to the course in Education, nine units prescribed:

Algebra ........................................ 1 unit
English ......................................... 3 units
Foreign Languages, any one: Dutch, French, German, Greek, or Latin ... 2 units

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 ........................................ 1 1/2 units
Chemistry ........................................ 2 units
Geography or Geology ......................... 1 unit

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

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

Algebra ........................................ 1 unit
English ......................................... 3 units
Foreign Languages, any one: Dutch, French, German, Greek, or Latin ... 2 units

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

Algebra ........................................ 1 1/2 units
English ......................................... 3 units
Foreign Languages, any one: Dutch, French, German, Greek, or Latin ... 2 units

(If the applicant is unable to fulfill 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
Bible ............................................. 1 unit
Botany ........................................... 1 unit
Chemistry ....................................... 1 unit
Choirs and Choruses ......................... 1/2 to 1 unit
Dutch ............................................ 3 to 4 units
English ........................................... 3 to 4 units
French .......................................... 3 to 4 units
Geography and Geology ...................... 1/2 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

Applicants 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 enrollment, tuition and all fees except $3 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 $300.00 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.

STUDENT EXPENSES

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.

RHOES 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 PRIZE.—Through the generosity of Dr. G. J. Broodman of Grand Rapids, Michigan, gold, silver, and bronze 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.

HEYDOER PRIZE.—Mr. G. A. Heydoer 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".

HOPFUS 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, MUSKOGON, 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 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:

<table>
<thead>
<tr>
<th>MARK</th>
<th>INTERPRETATION</th>
<th>EQUIVALENT HONOR POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Exceptional</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good or very good</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Graduation average</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Unsatisfactory, just passable</td>
<td>0</td>
</tr>
<tr>
<td>F</td>
<td>Failure, No re-examination</td>
<td>Minus 1</td>
</tr>
<tr>
<td>Inc.</td>
<td>Work not completed</td>
<td>Minus 2</td>
</tr>
</tbody>
</table>

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 the 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.

ADMINISTRATION

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.

Dismissal

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101, 102, 201, 202, 301</td>
<td>10</td>
</tr>
<tr>
<td>English 103, 104</td>
<td>6</td>
</tr>
<tr>
<td>French or German</td>
<td>14</td>
</tr>
<tr>
<td>History</td>
<td>8</td>
</tr>
<tr>
<td>Philosophy (not including Psychology or Logic)</td>
<td>8</td>
</tr>
<tr>
<td>Natural Science</td>
<td>10</td>
</tr>
<tr>
<td>Latin 10 hours or Greek 14 hours</td>
<td></td>
</tr>
</tbody>
</table>

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.

REQUIREMENTS FOR GRADUATION

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 six 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.
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 125 hours. Twenty hours of Education (including Education 321, 325, 330m) 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 107 honor points, representing an average grade of C+.

3. Prescribed Work. The following 113 hours of work are prescribed:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 201, 202, 201, 302</td>
<td>8</td>
</tr>
<tr>
<td>Dutch</td>
<td>20</td>
</tr>
<tr>
<td>English</td>
<td>12</td>
</tr>
<tr>
<td>German</td>
<td>30</td>
</tr>
<tr>
<td>Greek</td>
<td>4</td>
</tr>
<tr>
<td>New Testament Greek</td>
<td>4</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Latin</td>
<td>12</td>
</tr>
<tr>
<td>Organic Science</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy (including Psychology and Logic)</td>
<td>12</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>Sociology</td>
<td>4</td>
</tr>
<tr>
<td>Sociology</td>
<td>6</td>
</tr>
</tbody>
</table>

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.

Requirements for Graduation

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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101, 102, 201, 202, 301</td>
<td>10</td>
</tr>
<tr>
<td>Education 101</td>
<td>2</td>
</tr>
<tr>
<td>English 105, 104, preferably 201 and 202</td>
<td>12</td>
</tr>
<tr>
<td>History 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>History 325-326 (3 hours), or Greek 315 and Latin 320</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101, 102, 201, 202, 301</td>
<td>10</td>
</tr>
<tr>
<td>Education 101</td>
<td>2</td>
</tr>
<tr>
<td>English 105, 104, preferably 201 and 202</td>
<td>12</td>
</tr>
<tr>
<td>History 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>History 325-326 (3 hours), or Greek 315 and Latin 320</td>
<td>6</td>
</tr>
</tbody>
</table>

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

a. For teaching in Elementary Schools:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 227 (or credit), 301</td>
<td>3</td>
</tr>
<tr>
<td>Economics 101</td>
<td>3</td>
</tr>
<tr>
<td>Education 102, 201 or 202 (or 305 and 306), 221 or 222, 223, 224, 225 or 226, 227, 228, 229</td>
<td>24</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>12</td>
</tr>
<tr>
<td>Music 201</td>
<td>2</td>
</tr>
<tr>
<td>Organic Science 102, 103</td>
<td>4</td>
</tr>
<tr>
<td>Public Speaking 201</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>38</td>
</tr>
</tbody>
</table>

b. For teaching in Junior and Senior High Schools:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 102, 223, 232-240 (3 hours), 308, 324, 325, 330m</td>
<td>17</td>
</tr>
<tr>
<td>French or German</td>
<td>12</td>
</tr>
<tr>
<td>Greek 101, 102, 315, 314 (12 hours) or Latin 101-102, 325-326 (10 hours) or Natural Science</td>
<td>10 or 12</td>
</tr>
<tr>
<td>Mathematics or Philosophy 203, 204</td>
<td>6</td>
</tr>
<tr>
<td>Sociology</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>51 or 53</td>
</tr>
<tr>
<td></td>
<td>57 or 55</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101</td>
<td>Bible 102</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>Chemistry 104</td>
</tr>
<tr>
<td>English 106</td>
<td>English 104</td>
</tr>
<tr>
<td>Organic Science 101</td>
<td>Mathematics 104</td>
</tr>
<tr>
<td>Psychology</td>
<td>Physical Science</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 201</td>
<td>Bible 202</td>
</tr>
<tr>
<td>Chemistry 201</td>
<td>Chemistry 202</td>
</tr>
<tr>
<td>French or German 102</td>
<td>French or German 202</td>
</tr>
<tr>
<td>Organic Science 201</td>
<td>Organic Science 202</td>
</tr>
<tr>
<td>Physics 201</td>
<td>Physics 202</td>
</tr>
</tbody>
</table>

Junior Year

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 301</td>
<td>Bible 302</td>
</tr>
<tr>
<td>Chemistry 301</td>
<td>Chemistry 302</td>
</tr>
<tr>
<td>Economics-Sociology or English or History</td>
<td>Mathematics or Science</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Physical Speaking</td>
</tr>
</tbody>
</table>

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 grade 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

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101</td>
<td>Bible 102</td>
</tr>
<tr>
<td>English 103</td>
<td>English 104</td>
</tr>
<tr>
<td>Latin</td>
<td>Latin</td>
</tr>
<tr>
<td>Mathematics or Science</td>
<td>Mathematics or Science</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>Public Speaking</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 201</td>
<td>Bible 202</td>
</tr>
<tr>
<td>English 201</td>
<td>English 202</td>
</tr>
<tr>
<td>History 203</td>
<td>History 204</td>
</tr>
<tr>
<td>Latin 3 hours; or French or German 4 hours</td>
<td>Latin 3 hours; or French or German 4 hours</td>
</tr>
<tr>
<td>Political Science</td>
<td>Political Science</td>
</tr>
<tr>
<td>Sociology 203</td>
<td>Sociology 204</td>
</tr>
</tbody>
</table>

Junior Year

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 301</td>
<td>Bible 302</td>
</tr>
<tr>
<td>English 301</td>
<td>English 302</td>
</tr>
<tr>
<td>History 301</td>
<td>History 302</td>
</tr>
<tr>
<td>Political Science</td>
<td>Political Science</td>
</tr>
</tbody>
</table>
CALVIN COLLEGE

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**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101</td>
<td>Bible 102</td>
</tr>
<tr>
<td>Chemistry 101 or 102</td>
<td>Chemistry 101 or 102</td>
</tr>
<tr>
<td>English 105</td>
<td>English 102</td>
</tr>
<tr>
<td>Mathematics 101</td>
<td>Mathematics 201</td>
</tr>
<tr>
<td>Mathematics 201</td>
<td>Mathematics 202</td>
</tr>
<tr>
<td>Drawing (Mechanical Drawing)</td>
<td>Drawing (Descriptive Geometry)</td>
</tr>
<tr>
<td></td>
<td>Public Speaking or Elective</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Bible 201</th>
<th>Mathematics 301</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 hours</td>
<td>5 hours</td>
</tr>
<tr>
<td>Physics 201</td>
<td>Integral Calculus, 3 hours</td>
</tr>
<tr>
<td>3 hours</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

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 midwestern 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 351 and 362 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 Winlock’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.
CALVIN COLLEGE

301. STUDIES IN CALVINISM

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 ARCHAEOLOGY

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

The historic development of Christianity and events related to it. Special consideration is given to the development among the Reformed churches, especially of the Netherlands and America. Open to Juniors and Seniors.

Chemistry

101. (15.) GENERAL INORGANIC CHEMISTRY

Four hours

Three hours in class-room and one laboratory period of four hours per week. Laboratory fee $5.00. Breakage fee, $5.00. Prerequisite: no previous training in Chemistry required, but student should have knowledge of Physics.

102. (20.) 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, $5.00. 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 work, one quiz period, and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $5.00. Prerequisites: 102 and 101 or 191 and 192.

202. (4.) ORGANIC CHEMISTRY

Four hours

Two or three hours of class 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.

501. (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.

502. (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.

Dutch

A. DUTCH LANGUAGE

181. ELEMENTARY GRAMMAR

Three or Four hours

Conjugations and declensions. Required outside reading.

182. 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.

203. FLEMISH RENAISSANCE

Three hours


204. DUTCH RENAISSANCE

Three hours


205. DUTCH ROMANTICISM

Three hours

Special study of Eldert Vlek and De Costa. Required outside reading and essay. Given 1932-34.

206. MOROCCAN LITERATURE

Three hours


NOTE: Courses 101, 102, 203, 204, 205, and 206 and one of the Dutch history courses are required of those who take the pre-Seminary course.

B. MEDIEVAL AND DUTCH HISTORY

235. 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 period. Given 1932-33.

234. FIRST RENAISSANCE (1000-1500)

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 (1550-1668) Three hours

326. Third Renaissance and Revolutions (1580-1915) Three hours

331. Flemish Painting Three hours
The Flemish and Dutch Primitives and their schools. The course is analytical as well as historical.

332. Dutch Painting Three hours
The Dutch Renaissance (1400-1700) and the modern Dutch painters. Prerequisite: Course 241.

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 on his application which department he prefers to take 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. (5) 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 approach 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 understanding the complex role 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. Prerequisites: 201 and 202 or their equivalents.

302. (8) Economics Business Organization and Combination (Corporation Finance) Three hours

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 the labor movement, historically and economically. Prerequisites: 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: 101, 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, associated 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. Three hours

102. (2) Educational Psychology Course 101, or its equivalent, is a prerequisite. Two hours

103. The Junior High School Not offered after June, 1931.
EDUCATION

223. 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 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 in 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 339m 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 techniques of teaching language usage, grammar, and composition.

324. DIRECTED OBSERVATION AND LESSON PLANNING Three hours
This course is like Education 221 and is for students looking for positions in the junior and senior high schools. To be taken the second semester of their junior year.

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.
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.

325x. Methods of Teaching in Secondary Schools
Three hours
Not offered after June, 1931.

330n. 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 homework a week.

102. Descriptive Geometry
Three hours
Exercises, instruction, and drill through the medium of 40 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 homework a week. Prerequisite: 101.

103. Mechanism and Sketching
Two hours
Sketching of models in orthogonal, 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 homework a week. Prerequisite: 101.

104. Statics
Four hours
Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Photos of experiments. Three two-hour laboratory periods, three hours homework a week. Prerequisite: 103.

105. Freshmen English
Three hours
This is a basic course required of all freshmen.

106. Freshmen English
Three hours
This is a continuation of the preceding course. Both 105 and 106 are prerequisites to all other courses in English.

201. American Literature
Three hours
From the beginning to 1840. A study of the religious, political, social, and artistic background of our national culture.

202. (11) American Literature
Three hours
The New England group, post-Revolution 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.

206. (11) American Literature
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. (5) Principles of Literature
Three hours
Literature: its place in philosophical, scientific, and aesthetic, its nature, its various forms, and kindred topics.

306. (4) Advanced Rhetoric
Three hours
Open only to those who receive special permission.

308. 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 Brookman contests or serve as substitutes in the intercollegiate contests.

330n. 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

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
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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.

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Three hours
Literature: its place in philosophical, scientific, and aesthetic, its nature, its various forms, and kindred topics.

306. (4) Advanced Rhetoric
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Open only to those who receive special permission.

308. 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 Brookman contests or serve as substitutes in the intercollegiate contests.

330n. 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: Oumsted and Sirich, Beginning 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 idioms. Composition based on text read. Prerequisite: 101 and 102.
302. (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 201.

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. Schiller and King's Seventeenth Century Readings. Prerequisites: 302 and 303. Courses 303 and 304 are not offered during 1932-33.

350m. 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

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. (8.) INTERMEDIATE GERMAN Three hours
Reading of nineteenth century prose. Vos's Essentials completed. Review of the more important parts of grammar. Composition and dictation. Prerequisites: 101 and 102.

202. (4.) INTERMEDIATE GERMAN CONTINUOUS Three hours
Intensive study of modern prose and poetry. By stress upon idioms and otherwise, effort is made throughout the year to make Sprachgefühl. Outside reading with reports required to the extent of at least one hundred pages for the year. Prerequisite: 201.

201. (5.) THE ROMANTIC PERIOD Three hours

GREEK

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 reading. Papers on related subjects. Prerequisite: 202.

304. (8.) LATER NINETEENTH CENTURY DRAMA Three hours
A study of Hauptmann and Sardou and their times. Assigned readings and reports. Prerequisites: 203 and 304. Courses 303 and 304 are not offered during 1932-33.

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. Prerequisites: 302 and 305. Courses 306 and 307 are not offered during 1932-33.

306m. 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 Bremner, Elementary Greek Book. 1932-33, 1933-34.

102. (2.) BEGINNERS' GREEK Four hours
Continuation of 101. Compilation of the text and the reading of the first book of Xenophon's Aneides, or its equivalent. 1932-33, 1933-34.

201. (3.) XENOPHON Three hours
Selections from the Anabasis. Prerequisite: 101-102. 1932-33.

202. (4.) HERODOTUS'S ILYAD Three hours
Text: Leaf and Bayfield, Books I-XII. 1932-33.

203. (4.) HERODOTUS'S ODYSSEY Three hours
Books I-XII. 1932-33.

301. (5.) PLATO Three hours
The Apology, Crito, and Phaedo are read. 1932-33, 1933-34.

302. (6.) PLATO Three hours
The Republic is read. 1932-33, 1933-34.

310. (11.) NEW TESTAMENT GREEK Two hours
The Gospel according to Mark is read. Prerequisite: 101-102. 1932-33, 1932-34.
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. 1922-23, 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
Based from 1815 to the near present. Lectures, readings, and reports. Prerequisites: 101 and 102. For Sophomores and Juniors. Given in 1922-23.

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 1860
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 1660
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. Prerequisites: high school course in American History. Given 1932-34.

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.

LATIN

323. THE EARLY MIDDLE AGES (400-1000)
Three hours
See page 55.

324. FIRST RENAISSANCE (1000-1400)
Three hours
See page 56.

325. SECOND RENAISSANCE AND REFORMATION (1400-1688)
Three hours
See page 36.

326. THIRD RENAISSANCE AND REVOLUTION (1688-1815)
Three hours
See page 36.

3286. (9.) TEACHERS' COURSE
Three hours
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, 337, 3506.

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 305, 301, and 302. 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 credits are granted for 101-102 unless credit has been earned for 103-104.

103-104. (1c. and 1d.) SECOND YEAR LATIN Five hours second semester
The equivalent of four books of Caesar's Gallic Wars is read. Equivalent to one unit of Latin for admission.

105. (1.) ROMAN ORATORY
Three hours
Castilianian 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.

302. (5.) PHILOSOPHICAL TREATISES
Three hours
Cicero's De Senectute and De Amicitia. Papers by the students on assigned subjects.

302. (7.) ROMAN HISTORIANS
Two or three hours
Livy, Book XXI; the history and the life of Rome during the period of the Punic Wars.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>305.</td>
<td>Roman Comedy</td>
<td>Two or three hours</td>
<td>Terence: The Adelphi and the Andria. Not offered in 1893-94.</td>
</tr>
<tr>
<td>306.</td>
<td>Horace: Odes and Epodes</td>
<td>Two or three hours</td>
<td>See note under 206.</td>
</tr>
<tr>
<td>308.</td>
<td>Christian and Medieval Latin Literature</td>
<td>Three hours</td>
<td>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.</td>
</tr>
<tr>
<td>326.</td>
<td>Roman Culture</td>
<td>Two hours</td>
<td>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.</td>
</tr>
<tr>
<td>327.</td>
<td>Latin Grammar and Writing</td>
<td>Two hours</td>
<td>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 Oviedo 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 246.</td>
</tr>
<tr>
<td>330m.</td>
<td>Teachers' Course</td>
<td>One hour</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Mathematics**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>101.</td>
<td>Algebra</td>
<td>Three hours</td>
<td>For those who have had only one year of Algebra in high school.</td>
</tr>
<tr>
<td>102.</td>
<td>Solid Geometry</td>
<td>Three hours</td>
<td></td>
</tr>
<tr>
<td>103.</td>
<td>College Algebra</td>
<td>Three hours</td>
<td>Prerequisite: 101.</td>
</tr>
<tr>
<td>104.</td>
<td>Plane Trigonometry</td>
<td>Three hours</td>
<td>Prerequisite: 101 and 103.</td>
</tr>
<tr>
<td>201.</td>
<td>Plane Analytical Geometry</td>
<td>Four hours</td>
<td>Prerequisite: 101 and 104.</td>
</tr>
<tr>
<td>301.</td>
<td>Differential Calculus</td>
<td>Five hours</td>
<td>Prerequisite: 201 and 202.</td>
</tr>
<tr>
<td>302.</td>
<td>Integral Calculus</td>
<td>Five hours</td>
<td>Completion of Integral Calculus and introduction to Differential Equations.</td>
</tr>
</tbody>
</table>

**Music**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>303.</td>
<td>(8) Differential Equations</td>
<td>Three hours</td>
<td></td>
</tr>
<tr>
<td>304.</td>
<td>(10) Theory of Equations</td>
<td>Three hours</td>
<td>Prerequisite: 201, 201, and 202.</td>
</tr>
<tr>
<td>305.</td>
<td>(11) Projective Geometry</td>
<td>Three hours</td>
<td>This will be offered if one of the other courses for this semester is not elected by enough students.</td>
</tr>
<tr>
<td>307.</td>
<td>(12) Solid Analytical Geometry</td>
<td>Three hours</td>
<td>Prerequisite: 301 and 302.</td>
</tr>
<tr>
<td>326ns.</td>
<td>Teachers' Course</td>
<td>One hour</td>
<td>Discussion of methods of teaching Mathematics in secondary schools. Twenty hours of observation work are required.</td>
</tr>
</tbody>
</table>

**Music**

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>101-102.</td>
<td>Chorus</td>
<td>One hour</td>
<td>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.</td>
</tr>
<tr>
<td>301.</td>
<td>Music Theory</td>
<td>Two hours</td>
<td>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.</td>
</tr>
<tr>
<td>326.</td>
<td>Music Minuets</td>
<td>Two hours</td>
<td>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.</td>
</tr>
<tr>
<td>329.</td>
<td>Harmony</td>
<td>Two hours</td>
<td>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.</td>
</tr>
<tr>
<td>326.</td>
<td>History of Music</td>
<td>Two hours</td>
<td>(Continuation of 205) Secondary triads, dominant seventh, dominant ninths and their inversions.</td>
</tr>
<tr>
<td>325.</td>
<td>History of Music</td>
<td>Three hours</td>
<td>The development of the art of music from the earliest times to the present. Oratorio and church music, the operas, 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.</td>
</tr>
<tr>
<td>326.</td>
<td>History of Music</td>
<td>Three hours</td>
<td>(Continuation of 205)</td>
</tr>
<tr>
<td>207-208.</td>
<td>Singing</td>
<td></td>
<td>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 cantories and operas. One twenty-five minute period a week.</td>
</tr>
</tbody>
</table>
209. ORGAN  One hour
Individual lessons in pipe organ, beginning with the fundamental principles of organ technic, pedal technique, free-time 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 ZOOLOGY  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, $5.00.

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 101.

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, $9.00. Prerequisite: 101.

201. (5.) INVERTEBRATE ZOOLOGY  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 1918-19.

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, $6.00.

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.

205. (8.) VERTEBRATE ZOOLOGY  Four hours
Comparative anatomy and natural history of vertebrates. Evolutionary problems are emphasized. Three recitations and three hours of laboratory work a week. Laboratory fee, $3.00. Prerequisite: 106 and 201. Courses 205 and 208 are desirable antecedents.

203-204. (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, zoology, 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, evidence for evolution, and organic technology. 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 305.

309. (19.) 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 305.

330. (12.) TEACHING OF BIOLOGY  One hour
The point of view, contents, and methods of teaching secondary school botany, zoology, 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 Courses.

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 unescapably 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 to discuss and appreciate the problems and method of philosophy as incorporated in the historic development. Emphasis is on the implicit movement. Collateral reading, including extracts from the translated sources. Paper. Prerequisite: 203.

205. (5.) HISTORY OF PHILOSOPHY FROM ST. AUGUSTINE TO KANT  Three hours
Continuation of 204. Prerequisite: 203 and 204.

206. (6.) HISTORY OF PHILOSOPHY KANT AND AFTER  Three hours
An intensive study of this period, its setting, the problems solved, and those raised. Special attention to the movement of idealism and to philosophy in America. Lectures, discussions, readings, papers. Prerequisite: 301.
CALVIN COLLEGE

302. (7.) ETHICS
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
Lectures, discussions, and papers. Text: Bradley's Appearance and Reality, Taylor's Elements of Metaphysics. Prerequisite: 303.

306. METAPHYSICAL IMPLICATIONS OF CHRISTIANITY
Lectures, readings, discussions, and papers on the view of reality expressed and implied in Christianity. Prerequisite: 304. Either Course 304 or Course 306 will be offered during 1933-34.

Physics

301. (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.

302. (2.) GENERAL PHYSICS
Four hours
Electricity, sound, and light. Three class periods and one laboratory period per week. Laboratory fee, $3.00.

303. (5.) PROBLEM COURSE
One hour
A course required of engineering students. It should accompany 301.

304. (6.) PROBLEM COURSE
One hour
Continuation of 303. This course should accompany 302.

Political Science

301. (1.) INTRODUCTION TO POLITICAL SCIENCE
Three hours

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 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 net 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 Berkshire contest and as substitutes in the intercollegiate contest.