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, 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
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1951

Beginning of first semester and enrolment .................. September 5
Convocation ...................................................... September 11
Re-examinations ................................................ September 10
Thanksgiving recess ............................................ November 22-25
Christmas vacation begins .................................... December 19, 12:00 Noon

1952

Christmas vacation ends ........................................ January 3, 7:50 A.M.
Final examinations begin ...................................... January 14
First semester closes .......................................... January 22
Registration for the second semester ....................... January 23-26
Meeting of Board of Trustees ................................ In February
Spring vacation begins ........................................ March 22, 12:00 Noon
Spring vacation ends .......................................... April 1, 7:50 A.M.
Re-examinations ................................................. April 4-5
Final examinations begin ..................................... May 19
Commencement ............................................... June 3

Summer Session

Enrolment ......................................................... June 17, 9:00 A.M.
Classes begin .................................................. June 18
Independence Day recess .................................... July 4
Summer session closes ....................................... July 29

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* On leave of absence first semester 1951-52.
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Committees of the Faculty  
1951-1952

Athletics—De Vries, Bouma, Bult, Karsten, Tuls, Vanden Berg.

Chapel and Radio Committee—Bratt, De Jonge, De Koster,  
Meeter, Van Til, Weidenaar.

Discipline—Hoekstra, De Beer, Monsma, H. Stob, Timmerman,  
Van Opuyen.

Educational Policy—Ryskamp, Dekker, Flokstra, Hoekstra, Jel-  
lema, R. Stob, Van Haitsma, Zylstra.

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Educational Policy—Ryskamp, Dekker, Flokstra, Hoekstra, Jellem, R. Stob, Van Haitsma, Zylstra.
AIM

Calvin College is an institution that exists under the auspices of the Christian Reformed Church in America. Its origin can be traced back to 1876 when the church organized a school for the training of ministers of the gospel, which at first devoted four years to literary and two years to theological study. This school gradually grew into a fully accredited liberal arts college and into a fully accredited theological seminary.

According to the constitution all instruction given must be in harmony with Reformed truth. The various branches of study, therefore, are considered from the standpoint of faith and in the light of Calvinism as a life and world view. The aim of the college is to give young people an education that is Christian, in the larger and deeper sense that all the class work, all the students' intellectual, emotional, and imaginative activities shall be permeated with the spirit and teaching of Christianity.

It is, furthermore, the aim of Calvin College to maintain standards of sound scholarship. In recognition of this aim the college is fully accredited by the North Central Association of Colleges and Secondary Schools and by the State Education Department of the State of New York, and is a member of the Association of American Colleges.
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ADMISSION

ALL APPLICATIONS for admission should be made to the Dean at least a month before the date of opening. Since all applications must be made on the forms provided by the college, the applicant should send for these early. The forms referred to include:

(a) Personal application
(b) Transcript of high school record
(c) Recommendation of pastor
(d) Health record

One who intends to study for the ministry must present a recommendation from his consistory endorsing him for the ministry.

Those seeking admission at the beginning of the second semester should apply, if possible, a month before the semester opens.

Students whose residences are too far distant from Grand Rapids to permit them to attend church services at home are expected to transfer their membership to local churches of their own choice.

Freshman Standing

STUDENTS will be admitted to Freshman standing by plan A, B, or C.

PLAN A.

1. The applicant for admission 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. The fifteen units required for admission must include four sequences, two major sequences and two minor sequences, selected from the five groups listed below. A major sequence consists of a minimum of three units, a minor sequence of a minimum of two units.

I. ENGLISH

A major sequence of at least 3 units is required

II. One major sequence (3 units) and two minor sequences (2 units each) are to be chosen from Groups A, B, C, D.

Two sequences may be chosen from Group A but only one from Groups B, C, D.

A sequence consists of work in a single language, not in the combination of two languages. The foreign languages acceptable are: Greek, Latin, French, German, Spanish, and Dutch.

B. MATHEMATICS-PHYSICS GROUP

A minor sequence in this group must include 1 unit of algebra and 1 unit of plane geometry. A major sequence is formed by adding to this minor sequence 1 or more units from the following:

Adv. algebra . . . . 1/2 or 1 unit
Trigonometry . . . . 1/2 unit
Solid geometry . . . . 1/2 unit
Physics . . . . 1 unit

C. NATURAL SCIENCE GROUP

Physics . . . . 1 unit
Zoology . . . . 1 unit
Chemistry . . . . 1 unit
Biology (botany, 1/2 unit and zoology, 1/2 unit) . . . . 1 unit

D. SOCIAL STUDIES GROUP

Ancient history, 1 unit
European history, 1, 11/2, or 2 units
American history, 1/2 or 1 unit
American government, 1/2 unit
Economics, 1/2 unit

Minimum requirements from above groups . . . . 10 units

The remaining units required to make up the necessary 15 units required are elective from among the subjects listed above and such others as are usually counted toward graduation by the accredited school. The Dean, however, has the right to reject such credits as the institution considers undesirable. One unit of foreign language may be offered under this group . . . . 5 units

Total . . . . 15 units

Physics may not be counted in both of the Groups B and C as part of a sequence.

If biology is counted, neither botany nor zoology may be counted.

English may be included under European history. World history may be included when accompanied by a second full year of history.

Half units in the social studies are acceptable as part of a sequence only if taken in the eleventh or twelfth grade.

Students who plan to meet the Bachelor of Arts degree requirements would be wise not to omit more than one of the above groups in selecting sequences and should, if possible, complete one language sequence in high school.

APPLICANTS FOR PRE-SPECIALIZED COURSES:

Pre-seminary students should present, if possible, 2 units of high school German and 2 units of high school Latin for admission.

Pre-medical, pre-dental, pre-engineering, medical technology, and 3-year nursing students should present, if possible, 11/2 units of algebra, 1 unit of geometry, 1 unit of high school chemistry, 1 unit of high school physics, and two units of high school Latin.

Pre-law students should present, if possible, 2 units of high school Latin for admission.
ADMISSION

All applications for admission should be made to the Dean at least a month before the date of opening. Since all applications must be made on the forms provided by the college, the applicant should send for these early. The forms referred to include:

(a) Personal application
(b) Transcript of high school record
(c) Recommendation of pastor
(d) Health record

One who intends to study for the ministry must present a recommendation from his consistory endorsing him for the ministry.

Those seeking admission at the beginning of the second semester should apply, if possible, a month before the semester opens.

Students whose residences are too far distant from Grand Rapids to permit them to attend church services at home are expected to transfer their membership to local churches of their own choice.

Freshman Standing

Students will be admitted to Freshman standing by plan A, B, or C.

Plan A.

1. The applicant for admission 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. The fifteen units required for admission must include four sequences, two major sequences and two minor sequences, selected from the five groups listed below. A major sequence consists of a minimum of three units, a minor sequence of a minimum of two units.

I. ENGLISH

A major sequence of at least 3 units is required

II. One major sequence (3 units) and two minor sequences (2 units each) are to be chosen from Groups A, B, C, D. Two sequences may be chosen from Group A but only one from Groups B, C, D.

A sequence consists of work in a single language, not in the combination of two languages. The foreign languages acceptable are: Greek, Latin, French, German, Spanish, and Dutch

B. MATHEMATICS-PHYSICS GROUP

A minor sequence in this group must include 1 unit of algebra and 1 unit of plane geometry. A major sequence is formed by adding to this minor sequence 1 or more units from the following:

Adv. algebra... ½ or 1 unit
Trigonometry... ½ unit
Solid geometry... ½ unit
Physics... 1 unit

C. NATURAL SCIENCE GROUP

Physics... 1 unit
Zoology... 1 unit
Chemistry... 1 unit
Biology (botany, ½ unit and zoology, ½ unit)

Botany... 1 unit

D. SOCIAL STUDIES GROUP

Ancient history, 1 unit
European history, 1, 1½, or 2 units
American history, 1½ or 1 unit
American government, ½ unit
Economics, ½ unit

Minimum requirements from above groups...

The remaining units required to make up the necessary 15 units required are elective from among the subjects listed above and such others as are usually counted toward graduation by the accredited school. The Dean, however, has the right to reject such credits as the institution considers undesirable. One unit of foreign language may be offered under this group...

Total...

Physics may not be counted in both of the Groups B and C as part of a sequence.

If biology is counted, neither botany nor zoology may be counted.

English history may be included under European history. World history may be included when accompanied by a second full year of history.

Half units in the social studies are acceptable as part of a sequence only if taken in the eleventh or twelfth grade.

Students who plan to meet the Bachelor of Arts degree requirements would be wise not to omit more than one of the above groups in selecting sequences and should, if possible, complete one language sequence in high school.

Applicants for Pre-Professional Courses:

Pre-seminary students should present, if possible, 2 units of high school German and 2 units of high school Latin for admission.

Pre-medical, pre-dental, pre-engineering, medical technology, and 3-year nursing students should present, if possible, 1½ units of algebra, 1 unit of geometry, 1 unit of high school chemistry, 1 unit of high school physics, and two units of high school Latin.

Pre-law students should present, if possible, 2 units of high school Latin for admission.
PLAN B. ADMISSION BY EXAMINATION. Applicants who are unable to furnish approved certificates, and who are therefore unable to meet the first requirement of Plan A, may be admitted if by passing examinations satisfactorily 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 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 removed during the first year of residence.

Admission of War Veterans

Men and women who have been in the Armed Services and who plan to enter college after their discharge should have a transcript of their high school record and previous college record mailed to Calvin College at their earliest convenience. Veterans who have spent time in the Army Specialized Training Program or the Navy College Training Program and who wish to return to Calvin should request the Registrar of the institution at which they received this training to forward a transcript of the credits earned to Calvin College. Advanced credit will be given for all such courses as can be applied toward degree requirements.

Calvin College has been approved by the Government as an institution of higher education for the training of discharged service men. Further information or counsel will be furnished gladly upon request.

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 another 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 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.

4. 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 six 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.

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.

Advanced credit up to nine semester hours will be allowed for courses taken by correspondence at accredited colleges or universities.

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.
PLAN B. ADMISSION BY EXAMINATION. Applicants who are unable to furnish approved certificates, and who are therefore unable to meet the first requirement of Plan A, may be admitted if by passing examinations satisfactorily they can meet the other requirements of Plan A. Further particulars regarding such examinations may be obtained from the Dean.

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STUDENT EXPENSES

TUITION RATES

Tuition and fees for the semester are due by October 1 for the first semester, and February 15 for the second semester. Accounts not paid by these dates are past due and are subject to a $2.00 late payment fee. Students who have not paid their account by the end of the semester will not be permitted to take examinations. THE ABOVE RULES APPLY TO VETERANS.

REGULAR TUITION FEE

The regular tuition is $175.00 a semester.

For students who are members of a Christian Reformed Church and thus contribute indirectly to the support of Calvin College, the tuition shall be determined on the basis of the zone in which the student resides. The U. S. Official Postal Guide shall determine the zone of residence.

Zones 1, 2, and 3 (extending up to 300 miles from Grand Rapids)

For students residing within these zones the tuition is $115.00 a semester. For two students from one family residing in the region defined, the tuition for each is $96.50 a semester.

Zones 4 and 5 (from 300 to 1,000 miles from Grand Rapids)

For students residing within these zones the tuition is $85.00 a semester. For two students from one family residing in the region defined, the tuition for each is $68.00 a semester.

Zones 6, 7, and 8 (over 1,000 miles from Grand Rapids)

For students residing within these zones the tuition is $50.00 a semester. This is the minimum tuition.

Canadian Students

For students residing in Canada, members of the Christian Reformed Church, the tuition shall be calculated on the same zonal basis as given above.

In calculating the tuition, residence is determined as follows:

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

Residence of students whose parents are foreign missionaries of the Christian Reformed Church shall be considered Zone 8.

STUDENT EXPENSES

Residence of a married man is considered that of his former established home until he has resided in the local zone for two semesters.

Residence of all others is considered local.

OTHER FEES

ORGANIZATION FEE

All students pay an organization fee of four dollars each semester for the benefit of all-school activities.

EXCESS HOURS FEE

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

UNCLASSIFIED STUDENT FEE

Unclassified students pay at the rate of twelve and one-half dollars for each semester hour; members of the Christian Reformed Church, nine dollars.

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.

DIRECTED TEACHING FEE

A practice fee of ten dollars a semester is paid by students who register for Directed Teaching.

GRADUATION FEE

The general graduation fee, including diploma, is ten dollars.

LATE REGISTRATION FEE

A fee of five dollars will be charged for late registration.

SPECIAL EXAMINATION FEE

A fee of two dollars is charged for all special examinations.

SUMMER SESSION FEE

The tuition fee is nine dollars per semester hour of credit.

INDIVIDUAL LESSONS FEE

Charges for individual instruction in voice, piano, organ and orchestral or band instruments are at the rate of thirty dollars per semester (fifteen lessons). The fee for use of the organ for practice is ten dollars per semester.
STUDENT EXPENSES

TUITION RATES

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The residence of minors not having legal guardians is determined as follows:

1. Residence of a married man is considered that of his former established home until he has resided in the local zone for two semesters.
2. Residence of all others is considered local.

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1. Residence of minors is that of their parents or legal guardians.
2. Residence of students whose parents are foreign missionaries of the Christian Reformed Church shall be considered Zone 8.

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The tuition fee is nine dollars per semester hour of credit.

Individual Lessons Fee

Charges for individual instruction in voice, piano, organ and orchestral or band instruments are at the rate of thirty dollars per semester (fifteen lessons). The fee for use of the organ for practice is ten dollars per semester.
LOCKER FEE

All students are charged a locker fee of one dollar per year.

REFUND

No refund 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 $5.00 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; after eight weeks, no part will be refunded.

Living Expenses

Living Expenses, including board, room rent, fuel, light, laundry, and text books are from $700.00 up per year.

HOUSING

Housing for Men

Out-of-town men students are housed in private homes in the vicinity of Calvin College. The college keeps on file a list of approved rooming places. The average cost for rooms is about $5.00 per week per person. Students desiring rooms are advised to select their rooming places in August or immediately upon arrival in Grand Rapids for registration. Out-of-town men students must stay in a home on the approved list or at relatives. If the place in which they desire to stay is not on the approved list they must obtain approval from the office before renting the room.

Board for Men

A few of the homes offering lodging also offer to serve meals to men students. If out-of-town men students are not boarding with relatives or at a home or apartment on the approved list they may eat at the college cafeteria, where the cost for food runs about $180 per semester, depending on changes in the food costs.

Housing and Board for Women

All out-of-town freshmen women must live in a school housing facility (cooperative house or dormitory) unless working for room and board or living with relatives.

The college dormitory on Giddings Avenue provides living accommodations for about 78 women students. Both upper class and freshman women students may apply for admission to the Dormitory. Communications should be addressed to the Dean of Women,

STUDENT EXPENSES

Calvin College. Board and room fees total approximately $250.00 per semester.

Three semi-cooperative homes in the southeast section of the city are maintained by the college and provide freshman women students with congenial living accommodations. These homes are under the direct control of the faculty, and each is under the personal supervision of a housemother. Each student works out part of her room and board, net expenses amounting to about $200.00 per semester. Application for admission to these homes should be made with the Dean of Women.

Women living in college residence halls must furnish their own towels, sheets, pillow cases, and blankets.

Applicants accepted for admission to residence halls are expected to retain possession of their rooms for one semester, and may not move to other living quarters without permission.

Admission to residence halls 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 there may not be considered desirable.

For those women students who are unable to procure admission to a college residence hall, or who wish to live in a private home, the college keeps on file a list of approved rooming places, and will do all in its power to obtain for the student the kind of place desired. A city such as Grand Rapids offers excellent opportunity for self-support, especially for young women who desire to work for their room and board. Since it has been found most desirable for students to discuss financial arrangements and other matters with their prospective landladies, the college will not make advance assignments to private homes. Upon arrival in Grand Rapids the student should report to the Dean of Women.

Apartments

A limited number of apartments is usually available for small groups of men or women who desire to do their own cooking. Permission must be obtained from the college office to stay in an apartment, and all apartments must be on the approved list. Freshmen are not permitted to stay in apartments.

All rates quoted for rooms and board are approximations and are subject to change.

Use of Automobiles

Calvin College does not require students driving automobiles to have them registered with the college. There are, however, certain regulations on parking of automobiles by students...
L
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during school hours. No student parking is permitted on the main campus. Students must park their automobiles in the college parking lot east of the campus, on the campus side of the street where parking is permitted, or around Franklin Park. Students parking in areas other than those mentioned above are subject to disciplinary action.

STUDENT AID

Scholarships

UNIVERSITY OF MICHIGAN STATE COLLEGE SCHOLARSHIP.—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 annually to the administrative officer of the Graduate School some member 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 Scholarship. In each case an alternate may also be nominated."

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

RHODES SCHOLARSHIP.—Male students in the junior and senior years may apply for nomination to the Cecil Rhodes Scholarship. It is important that you should note the following points:

1. Applications should be in the hands of the secretaries of state committees as early as possible in October, and in any case not later than October 29th.

2. Veterans are eligible to compete, provided they are single and provided they fulfill the age and academic requirements.

3. The stipend will have its pre-war value of 500 pounds, supplemented for the present by a special allowance of 100 pounds per year. Veterans who are suitably qualified for benefits under the G. I. Bill of Rights may, of course, receive those benefits as in the past.

More specific information may be obtained from the Calvin College Registrar.

FRESHMAN SCHOLARSHIP—Christian High School Graduates. 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 accredited Christian High Schools of America supported by our constituency, who is recommended thereto by the faculty of that school, in accordance with the following conditions:

1. (a) The Faculty of Calvin College will select and appoint the winner.

   (b) If, in the opinion of the Faculty of Calvin College, no suitable candidate is available, no award shall be made in that particular year.
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1. (a) The Faculty of Calvin College will select and appoint the winner.
   (b) If, in the opinion of the Faculty of Calvin College, no suitable candidate is available, no award shall be made in that particular year.
(c) The Faculty always reserves the right, for reasons of its own, to reject any candidate who may be recommended for this scholarship.
2. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth.
3. The recipient should expect to complete a three- or four-year course at Calvin.
4. The recipient must have fulfilled regular college admission requirements.
5. The recipient should have been in residence at the high school from which he graduates for at least his junior and senior years.

FRESHMAN SCHOLARSHIP—Public High School Graduates.
Calvin College offers a scholarship consisting of free tuition for the Freshman year to a member of the graduating class in each of three accredited public high schools of the United States, provided:
1. The applicant is a member of the Chr. Ref. Church.
2. The applicant can give evidence that he or she was unable, because of lack of opportunity, to attend a Christian high school. Reasons for not attending a Christian high school should be explained.
3. The applicant is recommended for the scholarship by the faculty of the high school in accordance with the same conditions as are listed above under Freshman Scholarship—Christian High School Graduates.

Students who consider themselves eligible for this scholarship should write for application blanks on or before July 1. Address your letter to the Registrar.

ALUMNI TUITION SCHOLARSHIP.—The Alumni Association annually offers a tuition scholarship to that member of the Sophomore class who in his Freshman year has shown himself to be deserving. The conditions are as follows:
1. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth.
2. The recipient should expect to complete his college work at Calvin College.
3. If in the opinion of the faculty no suitable candidate is available, no award shall be made in that particular year.

Prizes and Awards

ALUMNI PRIZE.—The Alumni Association offers an annual prize of $15.00 based upon scholarship. For the year 1950-1951 the award was made for special excellence in the department of Latin.

STUDENT AID

THE BEETS CALVINISM PRIZE.—The late Dr. and Mrs. Henry Beets presented the College with $500.00, the income of which is to constitute 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 DR. BEETS MEMORIAL PRIZE CONTEST
The Eastern Wisconsin Ladies Missionary Union is sponsoring an essay contest for the school year 1951-52, in memory of the late Dr. Henry Beets, who was the originator of the Missionary Unions and an ardent worker for the cause of Christ in the mission program of our denomination. First and second prizes of $50.00 and $25.00 respectively will be awarded to the students submitting the best essays on some phase of mission interest. The essays should be between 1,500 and 2,000 words and two neatly typewritten copies should be submitted to the Bible Department before April 1. The teachers in the Bible Department will serve as judges.

The essays which are submitted in this contest may be used as term papers in other departments such as Bible and English, providing this has the approval of the professors concerned and the essays meet the standards set for such papers by the department.

BROODMAN ORATORICAL PRIZES.—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 Intercollegiate Speech League held in March of each year.

THESPIAN PRIZE.—The Thespians, dramatic club of Calvin College, offers 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 Intercollegiate Speech 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
(c) The Faculty always reserves the right, for reasons of its own, to reject any candidate who may be recommended for this scholarship.

2. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth.

3. The recipient should expect to complete a three- or four-year course at Calvin.

4. The recipient must have fulfilled regular college admission requirements.

5. The recipient should have been in residence at the high school from which he graduates for at least his junior and senior years.

Freshman Scholarship—Public High School Graduates.

Calvin College offers a scholarship consisting of free tuition for the Freshman year to a member of the graduating class in each of three accredited public high schools of the United States, provided:

1. The applicant is a member of the Chr. Ref. Church.

2. The applicant can give evidence that he or she was unable, because of lack of opportunity, to attend a Christian high school. Reasons for not attending a Christian high school should be explained.

3. The applicant is recommended for the scholarship by the faculty of the high school in accordance with the same conditions as are listed above under Freshman Scholarship—Christian High School Graduates.

Students who consider themselves eligible for this scholarship should write for application blanks on or before July 1. Address your letter to the Registrar.

Alumni Tuition Scholarship.—The Alumni Association annually offers a tuition scholarship to that member of the Sophomore class who in his Freshman year has shown himself to be deserving. The conditions are as follows:

1. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth.

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3. If in the opinion of the faculty no suitable candidate is available, no award shall be made in that particular year.

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in college algebra, analytical geometry, and calculus, provided the grade in each of these courses is at least "B."

Anna Bruinsma Prize in Music—The interest of $750, given by Mr. H. J. Bruinsma of Grand Rapids in honor of his deceased wife, one of Calvin's alumnae, is to be used in the department of music, two-thirds of it serving as first, and the remaining third as second prize.

Oratorio Society Tuition Scholarships in Music—Three College tuition scholarships are presented by the Calvin College Oratorio Society. These scholarships are limited to instrumentalists who can meet College admission requirements, and have records of superior achievement in high school instrumental activities. Recipients will be expected to participate in the scheduled rehearsals and performances of the Calvin College Band, Orchestra, and Chamber Music Ensembles.

Vander Heide Voice Scholarship—One scholarship is offered annually by Mr. and Mrs. Jan Vander Heide. The stipend covers the applied music fee for private lessons in Voice. Applications will be judged on the basis of the student's evidence of talent and his financial need. Applicants must have met college admission requirements and be full time students in good standing.

Mr. William B. Eerdmans, Sr., in the interest of encouraging originally expressive writing among Calvin students, has established

The William B. Eerdmans Literary Awards

Under the terms of the foundation three awards
1st: $35.00  2nd: $25.00  3rd: $15.00
will be made for the three pieces judged best among the contributions to each issue of the Calvin College Student Literary Review published in any given year. Any type of original writing submitted to the Review is eligible for an award, whether it be poetry, fiction, or essay, creative or critical, seriously reflective or delightfully amusing.

Loans

The Dutch Mother Fund to the amount of $2,500 was contributed by one of Calvin's grateful alumni to help students who major in subjects essential to engineering, provided the applicants meet requirements in respect to character and scholarship and promise to repay the loan as soon as possible after graduation. Application for a loan from this fund must be made at the office.

Placement Bureau

The Placement Bureau was established some years ago for the purpose of assisting prospective teachers, graduates of Calvin College, in securing teaching positions. 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. There is no charge for these services.
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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.

Devotional exercises are held daily, including Saturday, at 9:30 A.M. All students are required to attend devotional exercises on the days assigned to them.

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

As often as is deemed necessary during the course of the college year faculty counselors have consultations with each student, the aim being to offer, in addition to academic counseling, such help in the moral and spiritual life as the student may need.

The Christian Reformed Church that sponsors Calvin College is eager to have its students live the full Christian life—a life dedicated to the glory of God and to the service of our Lord Jesus Christ. It is deeply grieved when they fall short of the high expectations held for them.

The Faculty of Calvin College has been instructed by the Synod (1940) "to deal in the spirit of love, yet also, in view of the strong tide of worldliness which is threatening our churches, very firmly with all cases of misdemeanor and offensive conduct in the matter of amusements, particularly theatre-attendance, card-playing, and dancing, and to discipline and finally expel all students who refuse to heed the admonition of the school authorities in this matter."

The Hekman Memorial Library

The library contains more than 40,000 volumes. About 2,000 books are added yearly. All students and former students of Calvin College and Seminary are entitled to the full use of the library.

Physical Education

All Freshman and Sophomore men students are required to participate in a physical fitness program three times per week. Classes in required physical education for men are given during all periods, including the seventh, on Monday, Wednesday, and Friday.

All Freshman and Sophomore girls are required to take physical education. Girls' classes are on Tuesday and Thursday from the first period through the seventh. No academic credit is given for this work. Exemptions from this requirement are permitted only upon written request of the school physician or upon the written consent of the Dean of the college.

Attendance

The school year of thirty-six weeks is divided into two semesters of eighteen weeks each. A summer session of six or eight weeks is offered each summer.

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>E</td>
<td>Condition, which may be removed by re-examination</td>
<td>Minus 1</td>
</tr>
<tr>
<td>F</td>
<td>Failure. No re-examination</td>
<td>Minus 2</td>
</tr>
<tr>
<td>Inc.</td>
<td>Work not completed</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Work extending over two semesters</td>
<td></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.

If a student is absent from a final examination the mark "No exam." will be given. This mark must be removed by taking the examination at the time scheduled for re-examinations.
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.

Devotional exercises are held daily, including Saturday, at 9:30 A.M. All students are required to attend devotional exercises on the days assigned to them.

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

As often as is deemed necessary during the course of the college year faculty counselors have consultations with each student, the aim being to offer, in addition to academic counseling, such help in the moral and spiritual life as the student may need.

The Christian Reformed Church that sponsors Calvin College is eager to have its students live the full Christian life—a life dedicated to the glory of God and to the service of our Lord Jesus Christ. It is deeply grieved when they fall short of the high expectations held for them.

The Faculty of Calvin College has been instructed by the Synod (1940) “to deal in the spirit of love, yet also, in view of the strong tide of worldliness which is threatening our churches, very firmly with all cases of misdemeanor and offensive conduct in the matter of amusements, particularly theatre-attendance, card-playing, and dancing, and to discipline and finally expel all students who refuse to heed the admonition of the school authorities in this matter.”

The Hekman Memorial Library

THE library contains more than 40,000 volumes. About 2,000 books are added yearly. All students and former students of Calvin College and Seminary are entitled to the full use of the library.

Physical Education

All Freshman and Sophomore men students are required to participate in a physical fitness program three times per week. Classes in required physical education for men are given during all periods, including the seventh, on Monday, Wednesday, and Friday.

All Freshman and Sophomore girls are required to take physical education. Girls’ classes are on Tuesday and Thursday from the first period through the seventh. No academic credit is given for this work. Exemptions from this requirement are permitted only upon written request of the school physician or upon the written consent of the Dean of the college.

Attendance

THE school year of thirty-six weeks is divided into two semesters of eighteen weeks each. A summer session of six or eight weeks is offered each summer.

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>E</td>
<td>Condition, which may be removed by re-examination.</td>
<td>Minus 1</td>
</tr>
<tr>
<td>F</td>
<td>Failure. No re-examination.</td>
<td>Minus 2</td>
</tr>
<tr>
<td>Inc.</td>
<td>Work not completed.</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Work extending over two semesters.</td>
<td></td>
</tr>
</tbody>
</table>

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

If a student is absent from a final examination the mark “No exam.” will be given. This mark must be removed by taking the examination at the time scheduled for re-examinations.
The mark Inc. signifies the absence of a certain amount of reading to be completed, or of papers to be handed in. This mark is given only in cases of prolonged illness and in emergencies, i.e., in circumstances which may reasonably prevent a student from completing his work on time, such as directed teaching, inability to obtain necessary books, etc. To remove a mark Inc. the student must secure credit for the course by satisfying the instructor within one year. Responsibility for securing such credit and for obtaining from the instructor concerned a signed removal slip without which no change is made in the Registrar's entries, and for presenting such removal slip to the Registrar, lies with the student. Should a student fail to remove the mark Inc. within the allotted time, the mark automatically becomes F.

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

Examinations and Written Work

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

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

Term papers and book reports (not including weekly or bi-weekly assignments) shall be in three weeks before the final examinations.

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. Such permission will be granted only in exceptional cases after November 1 the first semester, and after March 15 the second semester.

A student may not change his course of study without permission of the Dean.

Class Visitors

Under certain conditions, students may attend classes as visitors or auditors. Permission to do so must be obtained from the office.

Dismissal

Admission to Calvin College is a privilege, not a right. This privilege may be withdrawn from any student whose presence is regarded by the college authorities as undesirable.
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number of hours required in the major group is, therefore, at least thirty-six, except for music.

c. In his minor group the student must choose one subject 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. If he has met all the requirements of this course and has completed 60 or more hours in Group II he may elect to receive the degree of bachelor of science instead of bachelor of arts.

6. State Teachers' Provisional Certificate. To be eligible for recommendation for a State Teachers' Provisional Certificate the student must on graduation meet the Michigan State Department of Education requirements for either the Elementary or the Secondary Provisional Certificate. The minimum subject requirements stipulated by the Michigan State Department of Education are: Psychology 201-202; Education 203, or 306, or 309; 301, or 314, or 315, or 317; a methods course and Education 343 or 344, a total of at least 20 semester hours of Education.

Prospective high school teachers must arrange their programs so as to complete a major of 24 hours and two minors of 15 hours each. (See 2A under Education, p. 40.)

Prospective elementary school teachers must arrange their programs so as to complete either a major and two minor sequences, or four minor sequences. (See 3A and B and (c) under C (6) under Education, p. 41.)

**Pre-Seminary**

(See note regarding Pre-Seminary entrance requirements under Plan A, page 16 Note.)

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, he must receive an average grade of C. To receive, in addition, the faculty's recommendation for admission to Calvin Seminary, the student must obtain one and one-half times as many honor points as hours of credit.

---

**Requirements for Graduation**

3. **Prescribed Work.** The following 118 hours of work are prescribed:

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 201, 202, 301, 302</td>
<td>4</td>
<td>Greek 101, 102, 201, 202</td>
<td>4</td>
</tr>
<tr>
<td>313, 314</td>
<td>6</td>
<td>History 101, 102, 201, 202, 203, 204</td>
<td>6</td>
</tr>
<tr>
<td>Biology 210, 306</td>
<td>3</td>
<td>Latin 201A, 202A, or 307, 308</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 205, 206</td>
<td>3</td>
<td>Philosophy 300, 301, 302</td>
<td>3</td>
</tr>
<tr>
<td>Dutch Language</td>
<td>3</td>
<td>Psychology 201</td>
<td>3</td>
</tr>
<tr>
<td>Dutch History 226</td>
<td>3</td>
<td>Phil. 200 (Logic)</td>
<td>3</td>
</tr>
<tr>
<td>Education 301</td>
<td>3</td>
<td>Speech 103, 104, 205</td>
<td>3</td>
</tr>
<tr>
<td>English incl. 103, 104</td>
<td>12</td>
<td>Sociology 203</td>
<td>3</td>
</tr>
</tbody>
</table>

**Schedule for the year 1951-52**

This schedule has been arranged for students who enter without any deficiencies and plan to take the full four year course.

**Freshman Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dutch 101</td>
<td>4</td>
<td>Dutch 102</td>
<td>4</td>
</tr>
<tr>
<td>English 103</td>
<td>3</td>
<td>English 104</td>
<td>3</td>
</tr>
<tr>
<td>History 101, 102</td>
<td>3</td>
<td>History 102</td>
<td>3</td>
</tr>
<tr>
<td>Latin (see page 73)</td>
<td>2</td>
<td>Latin (see page 73)</td>
<td>2</td>
</tr>
<tr>
<td>Speech 103</td>
<td>2</td>
<td>Speech 104</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 201</td>
<td>2</td>
<td>Bible 202</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 205</td>
<td>3</td>
<td>Chemistry 206</td>
<td>3</td>
</tr>
<tr>
<td>Dutch 201</td>
<td>3</td>
<td>Dutch 202</td>
<td>3</td>
</tr>
<tr>
<td>Greek 101</td>
<td>4</td>
<td>Greek 102</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 201, 202</td>
<td>3</td>
<td>Philosophy 200</td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 306</td>
<td>2</td>
<td>Biology 306</td>
<td>2</td>
</tr>
<tr>
<td>Dutch 305</td>
<td>3</td>
<td>Dutch 306</td>
<td>3</td>
</tr>
<tr>
<td>English 307 (or other)</td>
<td>3</td>
<td>Dutch History 326</td>
<td>3</td>
</tr>
<tr>
<td>English elective</td>
<td>3</td>
<td>Greek 202</td>
<td>3</td>
</tr>
<tr>
<td>Greek 201</td>
<td>3</td>
<td>Philosophy 300</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 203</td>
<td>3</td>
<td>English (continued)</td>
<td>3</td>
</tr>
<tr>
<td>Speech 205</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>
number of hours required in the major group is, therefore, at least thirty-six, except for music.

c. In his minor group the student must choose one subject 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.

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(See note regarding Pre-Seminary entrance requirements under Plan A, page 16 Note.)

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, he must receive an average grade of C. To receive, in addition, the faculty's recommendation for admission to Calvin Seminary, the student must obtain one and one-half times as many honor points as hours of credit.

3. Prescribed Work. The following 118 hours of work are prescribed:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Greek 101, 102, 201, 202, 313, 314</th>
<th>History 101, 102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Latin 201A, 202A, or 307, 308</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Philosophy 306, 301, 302, 313, 314</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Psychology 201</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Phil. 200 (Logic) 306</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Speech 103, 104, 205</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hours</th>
<th>Sociology 203</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

Schedule for the year 1951-52

been arranged for students who enter without any

take the full four year course.

Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>Dutch 102</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>English 104</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Latin (see page 73)</td>
<td>3 or 4</td>
</tr>
<tr>
<td></td>
<td>Speech 104</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>Bible 202</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Chemistry 206</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Dutch 202</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Greek 102</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Philosophy 200</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Junior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>Biology 210</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Dutch 305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English 207</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Greek 201</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sociology 203</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Speech 205</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>Biology 306</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Dutch 306</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Dutch History 326</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Greek 202</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Philosophy 300</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English (continued)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>
### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 301</td>
<td>2</td>
<td>Bible 302</td>
</tr>
<tr>
<td>Economics 201</td>
<td>3</td>
<td>Economics 202</td>
</tr>
<tr>
<td>Education 301</td>
<td>3</td>
<td>Greek 314</td>
</tr>
<tr>
<td>Greek 313</td>
<td>3</td>
<td>Philosophy 302</td>
</tr>
<tr>
<td>Philosophy 301</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

If Dutch 305 and 306 are taken in the Senior year, Economics 201 and 202 should be taken in the Junior year.

To meet the language requirements for this course the student is required to present two units of high school German and two units of high school Latin. If these languages were not taken in high school the student must make up the deficiency in college.

### Education

Completion of the four year course in Education leads to the A.B. degree and a Michigan State Teacher's Certificate. Careful planning will insure the completion of both Calvin and State requirements.

1. **Amount and Grade of Work.** One hundred and twenty-five hours of work must be completed with 125 honor points. This means the maintenance of a C average or better. An average of C+ or better is required of all students entering the course in Directed Teaching. This C+ applies to all work taken in the college after February 1, 1949.

2. **Course Requirements for Prospective High School Teachers:** (Grades 7-12.)

   A. A major field of 24 hours and two minors of at least 15 hours for each high school or elementary school position.

   Majors and minors may be chosen from the following subjects:

   - **Chemistry**
   - **Economics-Sociology**
   - **Economics**
   - **French**
   - **German**
   - **History**
   - **History-Philosophy**
   - **Phys. Science**
   - **Polt. Science**
   - **Physics**
   - **Physical Education**
   - **Latin**
   - **Sociology**
   - **Mathematics**
   - **Science (Biology)**
   - **Music**
   - **Art**

   B. **Subject requirements:**

   1. **Bible 101-2 or 105-6, 201-2, 301** ................. 10 hours
   2. **English 103-4** .................................. 6 hours
   3. **History** ............................................. 6 hours
   4. **Biology 109 and 110** ............................ 6 hours

3. **Course Requirements for Prospective Elementary Teachers:** (Kindergarten through Grade 8.)

   A. Prospective elementary teachers may select majors and minors from the list under 2A, p. 41. Two of these must be in subjects or subject fields taught in the elementary grades.

   B. Prospective elementary teachers are advised preferably to select four minors as follows:

   1. **English studies:** Credits earned in English literature, Rhetoric, Speech, Reading.
   2. **Art studies:** Music, Fine Arts, Industrial Arts, Drawing.
   3. **Social studies:** Economics, History, Political Science, Sociology, Ethics.
   4. **Science studies:** Biology, Geography, Physics, Chemistry, Psychology (not Psychology 202).

   C. **Subject requirements:**

   1. **Bible 101-2 or 105-6, 201-2, 301** ................. 10 hours
   2. **English 103-4** .................................. 6 hours
   3. **History** ............................................. 6 hours
   4. **Biology 109, 110** ................................ 6 hours
   5. **Foreign language** .......... 4 semesters of one foreign language

   Students who have earned credit for foreign language in high school may have this credit applied toward the fulfillment of the college language requirement, if the same language is continued.

   For the purpose of evaluating high school credit in a foreign language, one year of foreign language in high school will be regarded as the equivalent of one semester in college. The student is advised to make his choice of a foreign language in consultation with the Dean.
If Dutch 305 and 306 are taken in the Senior year, Economics 201 and 202 should be taken in the Junior year.

To meet the language requirements for this course the student is required to present two units of high school German and two units of high school Latin. If these languages were not taken in high school the student must make up the deficiency in college.

**Education**

Completion of the four year course in Education leads to the A.B. degree and a Michigan State Teacher's Certificate. Careful planning will insure the completion of both Calvin and State requirements.

1. **Amount and Grade of Work.** One hundred and twenty-five hours of work must be completed with 125 honor points. This means the maintenance of a C average or better. An average of C+ or better is required of all students entering the course in Directed Teaching. This C+ applies to all work taken in the college after February 1, 1949.

2. **Course Requirements for Prospective High School Teachers:** (Grades 7-12.)

A. A major field of 24 hours and two minors of at least 15 hours for either high school or elementary school positions.

   Majors and minors may be chosen from the following subjects:

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>History</th>
<th>Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics-Sociology</td>
<td>History-Sociology</td>
<td>Physics</td>
</tr>
<tr>
<td>Economics</td>
<td>Polit. Science</td>
<td>Physical Education</td>
</tr>
<tr>
<td>French</td>
<td>Mathematics</td>
<td>Science (Biology)</td>
</tr>
<tr>
<td>German</td>
<td>Music</td>
<td>Art</td>
</tr>
</tbody>
</table>

B. Subject requirements:

   (1) Bible 101-2 or 105-6, 201-2, 301 ........................................ 10 hours
   (2) English 103-4 ........................................................................ 6 hours
   (3) History ................................................................................ 6 hours
   (4) Biology 109 and 110 .............................................................. 6 hours

3. **Course Requirements for Prospective Elementary Teachers:** (Kindergarten through Grade 8.)

A. Prospective elementary teachers may select majors and minors from the list under 2A, p. 41. Two of these must be in subjects or subject fields taught in the elementary grades.

B. Prospective elementary teachers are advised preferably to select four minors as follows:

   (1) **English studies:** Credits earned in English literature, Rhetoric, Speech, Reading.
   (2) **Art studies:** Music, Fine Arts, Industrial Arts, Drawing.
   (3) **Social studies:** Economics, History, Political Science, Sociology, Ethics.
   (4) **Science studies:** Biology, Geography, Physics, Chemistry, Psychology (not Psychology 202).

C. Subject requirements:

   (1) Bible 101-2 or 105-6, 201-2, 301 ............................................. 10 hours
   (2) English 103-4 ........................................................................ 6 hours
   (3) History ................................................................................ 6 hours
   (4) Biology 109, 110 ................................................................. 6 hours
   (5) Foreign language ................................................................. 4 semesters of one foreign language

   Students who have earned credit for foreign language in high school may have this credit applied toward the fulfillment of the college language requirement, if the same language is continued.

   For the purpose of evaluating high school credit in a foreign language, one year of foreign language in high school will be regarded as the equivalent of one semester in college. The student is advised to make his choice of a foreign language in consultation with the Dean.
Education courses .................................................. 20 hours
(a) Psychology 201 and 202
(b) One course from Education 208, 306 or 309
(c) Education 301 or 315 or 317
(d) One methods course from 220, 307, 310, 324, 340, 322 .................................................. 2 or 3 hours
(e) Students planning to teach in a Christian School must add Education 220, 222, 320, and 322

(f) Education 341: Observation
(g) Education 345: Directed Teaching
(h) In addition to these subjects, prospective elementary school teachers are urged to include in their courses:
   1) Art 227 or 228 (no credit) and Art 301 ............. 3 hours
   2) Geography 105 or 106 .................................. 3 hours
   3) Education 318, 326, and 324 ......................... 3 hours
   4) Speech 103 or 104 or Educ. 225 ................. 2 hours

Prerequisites for Education 343, Directed Teaching:
(a) Grade of work equivalent to C++
(b) Principles of Education (315 or 317)
(c) Educational Psychology (202)
(d) Methods course:
   1) For teacher of grades K – 3 ......... Educ. 222
   2) For teacher of grades 4 – 8 ........ Educ. 220

4. The State Board of Education in Michigan grants Provisional Certificates to graduates who have met all the requirements of this course. These certificates are valid for five years and may be converted into Permanent Certificates, provided:
   a. The applicants have taught three years successfully.
   b. They have earned ten additional semester hours of credit.

Pre-Medical and Pre-Dental

(See note regarding pre-Medical entrance requirements under Plan A, page 19, Note.)

1. Amount of Work. The student must complete 94 hours of work.

2. Grade of Work. The student must obtain a total of 94 honor points; in other words, must obtain an average grade of C; except that to obtain faculty recommendation for admission to a class A medical school he must in the three years of residence obtain a total of 188 honor points, representing an average of B.

3. Prescribed Work. The following courses are prescribed:

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101 or 105 ...... 2 hours</td>
<td>Biology 110 ...... 3 hours</td>
</tr>
<tr>
<td>Biology 109 ........ 3 hours</td>
<td>Chemistry 104 .... 4 hours</td>
</tr>
<tr>
<td>Chemistry 103 ........ 4 hours</td>
<td>English 104 .... 3 hours</td>
</tr>
<tr>
<td>English 103 ........ 3 hours</td>
<td>Mathematics 104 .... 3 hours</td>
</tr>
<tr>
<td>History 101 or 206 .... 3 hours</td>
<td>History 102 or 206 ..., 3 hours</td>
</tr>
<tr>
<td>15 hours</td>
<td>16 hours</td>
</tr>
</tbody>
</table>

Freshman Year

Sophomore Year

Biology 201 ........ 4 hours | Biology 208 ........ 4 hours
Chemistry 201 ........ 4 hours | Chem. 202 or elective ... 4 hours
French or German .... 4 hours | French or German .... 4 hours
Physics 201 ........ 4 hours | Physics 202 ........ 4 hours

16 hours | 16 hours

Junior Year

Bible 201 ........ 2 hours | Bible 209 ........ 2 hours
Bible 301 ........ 2 hours | Biology 306 ........ 3 hours
Biology 307 .... 3 hours | Biology 312 ........ 3 hours
Chemistry 301 .... 2 hours | Chemistry 305 ........ 4 hours
Psychology 201 .... 3 hours | Elective ........ 4 hours

16 hours

Pre-Medical students are strongly advised to take a four-year college course.

Trigonometry presupposes one and one-half units of Algebra in high school.

If the student has had French or German in high school, the number of hours prescribed in the college may be reduced by four hours for each of the first two units of work. But one year 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 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 science on the combined curriculum plan in letters and medicine. He will receive this degree after one year of successful work in a recognized medical school. An average record of B- to B is required for recommendation to a class A Medical School.

A two-year pre-dental course is provided for those who desire it, but universities give preference for admission to students who have completed the three-year pre-dental course.
(6) Education courses ..............................................20 hours
   (a) Psychology 201 and 202
   (b) One course from Education 203, 306 or 309
   (c) Education 301 or 315 or 317
   (d) One methods course from 220, 307, 310, 324, 340, 322
   (e) Students planning to teach in a Christian School must add Education 220, 222, 320, and 322
   (f) Education 341: Observation
   (g) Education 348: Directed Teaching
   (h) In addition to these subjects, prospective elementary teachers are urged to include in their courses:
       1) Art 227 or 228 (no credit) and Art 301........3 hours
       2) Geography 105 or 106..........................3 hours
       3) Education 318, 226, and 324..............8 hours
       4) Speech 103 or 104 or Educ. 225..........8 hours

Prerequisites for Education 343, Directed Teaching:
   (a) Grade of work equivalent to C+
   (b) Principles of Education (315 or 317)
   (c) Educational Psychology (202)
   (d) Methods course:
       1) For teacher of grades K – 3.............. Educ. 222
       2) For teacher of grades 4 – 8.............. Educ. 220

4. The State Board of Education in Michigan grants Provisional Certificates to graduates who have met all the requirements of this course. These certificates are valid for five years and may be converted into Permanent Certificates, provided:
   a. The applicants have taught three years successfully.
   b. They have earned ten additional semester hours of credit.

Pre-Medical and Pre-Dental

(See note regarding pre-Medical entrance requirements under Plan A, page 19, Note.)

1. Amount of Work. The student must complete 94 hours of work.

2. Grade of Work. The student must obtain a total of 94 honor points; in other words, must obtain an average grade of C; except that to obtain faculty recommendation for admission to a class A medical school he must in the three years of residence obtain a total of 188 honor points, representing an average of B.

3. Prescribed Work. The following courses are prescribed:

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 101 or 105</td>
<td>Biology 110</td>
</tr>
<tr>
<td>Biology 109</td>
<td>Chemistry 104</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>English 104</td>
</tr>
<tr>
<td>English 103</td>
<td>Mathematics 104</td>
</tr>
<tr>
<td>History 101 or 205</td>
<td>History 102 or 206</td>
</tr>
<tr>
<td></td>
<td>15 hours</td>
</tr>
</tbody>
</table>

--- Freshman Year ---

--- Sophomore Year ---

- Biology 201 ........................................ 4 hours
- Chemistry 201 ...................................... 4 hours
- French or German .................................. 4 hours
- Physics 201 ........................................ 4 hours
- Biology 208 ......................................... 4 hours
- Chem. 202 or elective ......................... 4 hours
- French or German elective ..................... 4 hours
- Physics 202 ......................................... 3 hours
- 16 hours

--- Junior Year ---

- Bible 201 ........................................... 2 hours
- Bible 301 ........................................... 2 hours
- Biology 207 ......................................... 3 hours
- Biology 306 ......................................... 3 hours
- Biology 311 ......................................... 2 hours
- Chemistry 302 ...................................... 4 hours
- Chemistry 301 ...................................... 3 hours
- Elective ............................................. 4 hours
- 16 hours

Pre-Medical students are strongly advised to take a four-year college course.

Trigonometry presupposes one and one-half units of Algebra in high school.

If the student has had French or German in high school, the number of hours prescribed in the College may be reduced by four hours for each of the first two units of work. But one year 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 science on the combined curriculum plan in letters and medicine. He will receive this degree after one year of successful work in a recognized medical school. An average record of B- to B is required for recommendation to a class A Medical School.

A two-year pre-dental course is provided for those who desire it, but universities give preference for admission to students who have completed the three-year pre-dental course.
Four-Year Pre-Medical

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. However, for admission to some medical schools an average grade equivalent to two honor points per semester hour of credit is required.

   a. The student must meet the prescribed course requirement as well as the major and minor group requirements for the General College A. B. course. If he has completed 60 or more hours in Group II he may elect to receive the degree of bachelor of science, general course, instead of the bachelor of arts.
   b. The student must meet the prescribed course requirement of the Three-Year pre-Medical Course, and, if possible, in the same order.

4. Distribution of Electives. The number of electives will vary according to the nature of the student's high school preparation in French and German. Not less than 12 hours of his elected courses over and above the courses prescribed under 3 (above), but including Philosophy, must be in Groups I and III. The student is urged to elect Biology 307 and Chemistry 202 and 308.

Pre-Law — Three Year

(See note regarding pre-Law entrance requirements under Plan A, page 19, Note.)

1. Amount of Work. The student must complete 94 hours of work.

2. Grade of Work. The student must obtain a total of 94 honor points; in other words, an average of C; except that he must obtain 188 honor points, representing an average of B, to warrant faculty recommendation for admission to a class A law school.

3. Prescribed Work. Of the 94 hours required, certain hours are prescribed; as follows:

   **Freshman Year**

   **FIRST SEMESTER**
   
   *Bible 101 or 105* .......... 3 hours  
   *English 108* .............. 3 hours  
   *Mathematics or Science* .... 3 hours  
   *Political Science* .......... 3 hours  
   *Psychology 201* .......... 3 hours  
   *Speech ............ 2 hours  
   **16 hours**

   **SECOND SEMESTER**
   
   *Bible 102 or 106* .......... 2 hours  
   *English 104* .............. 3 hours  
   *Mathematics or Science* .... 3 hours  
   *Philosophy 200, Logic* .... 3 hours  
   *Speech ............ 2 hours  
   **16 hours**

Sophomore Year

**FIRST SEMESTER**

*Bible 201* .......... 2 hours  
*Economics 201* .......... 3 hours  
*French or German* .......... 4 hours  
*Hist. 318, Eng. Const.* .... 3 hours  
*Political Science* .......... 3 hours  
**15 hours**

**SECOND SEMESTER**

*Bible 202* .......... 2 hours  
*Economics 206* .......... 3 hours  
*French or German* .......... 4 hours  
*Hist. 314, Eng. Const.* .... 3 hours  
*Political Science* .......... 3 hours  
**15 hours**

Junior Year

**FIRST SEMESTER**

*Bible 301* .......... 2 hours  
*Economics 305* .......... 4 hours  
*English* .............. 3 hours  
*History 301* .......... 3 hours  
*Political Science 306* .... 4 hours  
**16 hours**

**SECOND SEMESTER**

*Economics 308* .......... 4 hours  
*English* .............. 3 hours  
*History 302* .......... 3 hours  
*History 312* .......... 3 hours  
*Political Science 304* .... 3 hours  
**16 hours**

A student who has had French or German in high school may have his number of hours prescribed in college reduced by four hours for each of the first two units of high school work. But one year of French or German must be taken in college.

Since modern language requirements for admission into law schools vary widely, 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 94 hours, the student is eligible for the degree of bachelor of arts on the combined curriculum plan in letters and law. He will receive this degree after one year of successful work in a recognized law school.

Some law schools require an average grade equivalent to two honor points per semester hour of credit.

Four-Year Pre-Law Course

(See note regarding pre-Law entrance requirements under Plan A, page 19, Note.)

* Pre-Law students will be required to do extra work for the fourth hour.
Four-Year Pre-Medical

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. However, for admission to some medical schools an average grade equivalent to two honor points per semester hour of credit is required.

   a. The student must meet the prescribed course requirement as well as the major and minor group requirements for the General College A. B. course. If he has completed 60 or more hours in Group II he may elect to receive the degree of bachelor of science, general course, instead of the bachelor of arts.
   b. The student must meet the prescribed course requirement of the Three-Year pre-Medical Course, and, if possible, in the same order.

4. Distribution of Electives. The number of electives will vary according to the nature of the student’s high school preparation in French and German. Not less than 12 hours of his elected courses over and above the courses prescribed under 3 (above), but including Philosophy, must be in Groups I and III. The student is urged to elect Biology 307 and Chemistry 202 and 308m.

Pre-Law — Three Year

(See note regarding pre-Law entrance requirements under Plan A, page 19, Note.)

1. Amount of Work. The student must complete 94 hours of work.

2. Grade of Work. The student must obtain a total of 94 honor points; in other words, an average of C; except that he must obtain 188 honor points, representing an average of B, to warrant faculty recommendation for admission to a class A law school.

3. Prescribed Work. Of the 94 hours required, certain hours are prescribed; as follows:

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101 or 105</td>
<td>3 hours</td>
<td>Bible 102 or 106</td>
</tr>
<tr>
<td>English 108</td>
<td>3 hours</td>
<td>English 104</td>
</tr>
<tr>
<td>Mathematics or Science</td>
<td>2 hours</td>
<td>Mathematics or Science</td>
</tr>
<tr>
<td>Psychology 201</td>
<td>3 hours</td>
<td>Philosophy 200, Logic</td>
</tr>
<tr>
<td>Speech</td>
<td>2 hours</td>
<td>Speech</td>
</tr>
<tr>
<td><strong>16 hours</strong></td>
<td></td>
<td><strong>16 hours</strong></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>2 hours</td>
</tr>
<tr>
<td>Economics 201</td>
<td>3 hours</td>
</tr>
<tr>
<td>French or German</td>
<td>4 hours</td>
</tr>
<tr>
<td>Hist. 318, Eng. Const.</td>
<td>3 hours</td>
</tr>
<tr>
<td>Political Science</td>
<td>3 hours</td>
</tr>
<tr>
<td><strong>15 hours</strong></td>
<td></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>2 hours</td>
</tr>
<tr>
<td>Economics 305</td>
<td>4 hours</td>
</tr>
<tr>
<td>English</td>
<td>3 hours</td>
</tr>
<tr>
<td>History 301</td>
<td>3 hours</td>
</tr>
<tr>
<td>*Political Science 308</td>
<td>4 hours</td>
</tr>
<tr>
<td><strong>16 hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

A student who has had French or German in high school may have his number of hours prescribed in college reduced by four hours for each of the first two units of high school work. But one year of French or German must be taken in college.

Since modern language requirements for admission into law schools vary widely, 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 94 hours, the student is eligible for the degree of bachelor of arts on the combined curriculum plan in letters and law. He will receive this degree after one year of successful work in a recognized law school.

Some law schools require an average grade equivalent to two honor points per semester hour of credit.

Four-Year Pre-Law Course

(See note regarding pre-Law entrance requirements under Plan A, page 19, Note.)

* Pre-Law students will be required to do extra work for the fourth hour.
1. Amount of Work. The student must complete 125 hours of work.

2. Grade of Work. The students must obtain a total of 125 honor points; in other words, an average of C. To obtain faculty recommendation for admission to a recognized law school he must in the years of his residence at Calvin College have earned at least twice as many honor points as the number of hours of credit; in other words, he must have earned a "B" average.

3. Prescribed Work. Of the 125 hours required, certain hours are prescribed; as follows:

**Freshman Year**

**First Semester**
- Bible 101 or 105 ...... 2 hours
- English 108 ............ 3 hours
- History 101 or 205 .... 3 hours
- Mathematics 101 ....... 3 hours
- Political Science ....... 3 hours
- Speech 103 ............ 2 hours

16 hours

**Second Semester**
- Bible 102 or 106 ...... 2 hours
- English 104 ............ 3 hours
- History 102 or 206 .... 3 hours
- Political Science ....... 3 hours
- Psychology 201 ....... 3 hours
- Speech 104 ............ 2 hours

16 hours

**Sophomore Year**

**First Semester**
- Economics 201 .......... 3 hours
- English ................. 3 hours
- **French or German** .... 4 hours
- Phil. 200, Logic ....... 3 hours
- Science ................. 3 or 4 hours

16 or 17 hours

**Second Semester**
- Economics 202 .......... 3 hours
- English ................. 3 hours
- **French or German** .... 4 hours
- Phil. 306, Ancient ....... 3 hours
- Science ................. 3 or 4 hours

16 or 17 hours

**Junior Year**

- Bible 201 ............... 2 hours
- Econ. 305 ............... 4 hours
- Hist. 307 or 308 ....... 3 hours
- Hist. 309 ............... 3 hours
- Pol. Science 305 ...... 3 hours

15 hours

**Senior Year**

**First Semester**
- Bible 301 ............... 2 hours
- Econ. 308 ............... 3 hours
- Hist. 310 ............... 3 hours
- Hist. 311 ............... 3 hours
- Phil. 306 ............... 3 hours
- Speech .................. 2 hours

16 hours

**Second Semester**
- Hist. 312 ............... 3 hours
- Hist. 316 ............... 3 hours
- **Math. 206** ........... 3 hours
- Phil. 302 ............... 3 hours
- Soc. 203, 304, or 306 .... 3 hours

15 hours or 16 hours

---

* If advanced algebra was taken in high school, the student should, with the approval of his adviser, elect another course.
** Not required if the student has had two years in high school.
*** Before taking Math. 206, the student should make it a point to take Math. 205 or another prerequisite, satisfactory to the Mathematics Department.

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**Requirements for Graduation**

This outline of a four-year course has been prepared in order that the student may have as broad and thorough a cultural background for the work in the law school as possible. Furthermore, several law schools are now prescribing four years of undergraduate preparation. Since this is a suggested outline, all the subjects listed need not necessarily be taken by all the students who pursue this course. The student may not, however, make any changes in his program without the approval of his Pre-Law Course Adviser and the Dean. He should make certain that he meets the specific requirements of the law school which he plans to attend and that he secures as thorough a cultural college course as he can.

To meet the language requirement for this course the student is required to present two units of high school Latin. If this was not taken in high school the student must make up the deficiency in college.

4. Upon completion of this course the student will be granted an "A.B. degree, four-year Pre-Law Course."

**Pre-Engineering**

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

1. **Amount of Work.** The student must complete 94 hours of work.

2. **Grade of Work.** The student must obtain a total of 94 honor points; in other words, must obtain an average grade of C.

3. **Prescribed Work.** Of the 94 hours required, the following are prescribed:

**Three-Year General Pre-Engineering Course**

**Freshman Year**

**First Semester**
- Bible 101 or 106 ...... 2 hours
- Chemistry 103 ......... 4 hours
- Drawing 101* .......... 3 hours
- English 101 ............ 3 hours
- Mathematics 103 ...... 3 hours

**Second Semester**
- Bible 102 or 106 ...... 2 hours
- Chemistry 104 ......... 4 hours
- English 104 ............ 3 hours
- Mathematics 104 ...... 3 hours
- Speech 105 or 106 ...... 2 hours

15 hours

**Sophomore Year**

**First Semester**
- Drawing 201* .......... 2 hours
- Economics 201 .......... 3 hours
- Mathematics 201 ...... 3 hours
- Physics 201B ........... 5 hours
- Physics 203 ............ 1 hour
- Surveying 207* .......... 2 hours

**Second Semester**
- Bible 102 or 106 ...... 2 hours
- Economics 202 ...... 3 hours
- Mathematics 202 ...... 3 hours
- Physics 202 ............ 5 hours
- Physics 204 ............ 1 hour
- Elective ................ 2 hours

16 or 17 hours

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* See Engineering Subjects.
1. Amount of Work. The student must complete 125 hours of work.

2. Grade of Work. The students must obtain a total of 125 honor points; in other words, an average of C. To obtain faculty recommendation for admission to a recognized law school he must in the years of his residence at Calvin College have earned at least twice as many honor points as the number of hours of credit; in other words, he must have earned a "B" average.

3. Prescribed Work. Of the 125 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 or 105</td>
<td>Bible 102 or 106</td>
</tr>
<tr>
<td>English 103</td>
<td>English 104</td>
</tr>
<tr>
<td>History 101 or 205</td>
<td>History 102 or 206</td>
</tr>
<tr>
<td><em>Mathematics 101</em></td>
<td>Psychology 201</td>
</tr>
<tr>
<td>Political Science</td>
<td>Speech 104</td>
</tr>
<tr>
<td>Speech 103</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 201</td>
<td>Economics 202</td>
</tr>
<tr>
<td><strong>French or German</strong></td>
<td>English</td>
</tr>
<tr>
<td>Phil. 200, Logic</td>
<td>Phil. 300, Ancient</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
</tr>
<tr>
<td><strong>16 or 17 hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Junior 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>Econ. 305</td>
<td>Econ. 306</td>
</tr>
<tr>
<td>Hist. 307 or 205</td>
<td>Hist. 308 or 204</td>
</tr>
<tr>
<td>Hist. 313</td>
<td>Hist. 314</td>
</tr>
<tr>
<td>Pol. Science 305</td>
<td>Pol. Science 304</td>
</tr>
<tr>
<td><strong>15 hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 301</td>
<td>Hist. 316</td>
</tr>
<tr>
<td>Econ. 303</td>
<td>Hist. 312</td>
</tr>
<tr>
<td>Hist. 315</td>
<td><strong>Math. 206</strong></td>
</tr>
<tr>
<td>Hist. 311</td>
<td>Phil. 302</td>
</tr>
<tr>
<td>Phil. 305</td>
<td>Soc. 203,304, or 306</td>
</tr>
<tr>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td><strong>16 hours</strong></td>
<td></td>
</tr>
</tbody>
</table>

* If advanced algebra was taken in high school, the student should, with the approval of his adviser, elect another course.

**Pre-Engineering**

This outline of a four-year course has been prepared in order that the student may have as broad and thorough a cultural background for the work in the law school as possible. Furthermore, several law schools are now prescribing four years of undergraduate preparation. Since this is a suggested outline, all the subjects listed need not necessarily be taken by all the students who pursue this course. The student may not, however, make any changes in his program without the approval of his Pre-Law Course Adviser and the Dean. He should make certain that he meets the specific requirements of the law school which he plans to attend and that he secures as thorough a cultural college course as he can.

To meet the language requirement for this course the student is required to present two units of high school Latin. If this was not taken in high school the student must make up the deficiency in college.

4. Upon completion of this course the student will be granted an "A.B. degree, four-year Pre-Law Course."

**Three-Year General Pre-Engineering Course**

**Freshman Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101 or 105</td>
<td>Drawing 102*</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>Chemistry 104</td>
</tr>
<tr>
<td>Drawing 101*</td>
<td>English 104</td>
</tr>
<tr>
<td>English 103</td>
<td>Mathematics 104</td>
</tr>
<tr>
<td>Mathematics 103</td>
<td>Speech 105 or 104</td>
</tr>
<tr>
<td><strong>15 hours</strong></td>
<td><strong>15 hours</strong></td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing 201*</td>
<td>Bible 102 or 106</td>
</tr>
<tr>
<td>Economics 201</td>
<td>Economics 202</td>
</tr>
<tr>
<td>Mathematics 201</td>
<td>Mathematics 202</td>
</tr>
<tr>
<td>Physics 201E</td>
<td>Physics 202E</td>
</tr>
<tr>
<td>Physics 203</td>
<td>Physics 204</td>
</tr>
<tr>
<td>Surveying 207*</td>
<td>Elective</td>
</tr>
<tr>
<td><strong>16 or 17 hours</strong></td>
<td><strong>16 hours</strong></td>
</tr>
</tbody>
</table>

* See Engineering Subjects.
### Requirements for Graduation

On the combined curriculum plan in science and engineering, he will receive this degree after completing satisfactorily the requirement for the bachelor of science in engineering in a recognized engineering school.

### Pre-Business Administration

For students interested in Business Administration the following three-year course has been arranged:

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101 or 105</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>4</td>
</tr>
<tr>
<td>English 104</td>
<td>3</td>
</tr>
<tr>
<td>Drawing 101*</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 103</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 201</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 201</td>
<td>3</td>
</tr>
<tr>
<td>Physiology 202</td>
<td>2</td>
</tr>
<tr>
<td>Physiology 203</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 301</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 301</td>
<td>5</td>
</tr>
<tr>
<td>Economics 201</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 301</td>
<td>5</td>
</tr>
<tr>
<td>Statics 301</td>
<td>3</td>
</tr>
<tr>
<td>Dynamics 302</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Electives</td>
<td>17 or 18</td>
</tr>
</tbody>
</table>

In case the student has no credit in Advanced Algebra, Mathematics 101 must be taken, and in that event Mathematics 103 must be taken during the second semester.

In case the student has no credit in Solid Geometry, he should arrange to take Mathematics 102, if possible.

Electives must be chosen in consultation with the Dean.

4. **Diploma.** On satisfactory completion of either course the student will receive a three-year diploma.

5. **Degree.** On satisfactorily completing either course with a record of not less than 125 honor points received in the required 94 hours, the student is eligible for the degree of bachelor of science.

---

* See Engineering Subjects.
on the combined curriculum plan in science and engineering. He will receive this degree after completing satisfactorily the requirements for the bachelor of science in engineering in a recognized engineering school.

Pre-Business Administration

For students interested in Business Administration the following three-year course has been arranged:

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101 or 105</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>4</td>
</tr>
<tr>
<td>English 103</td>
<td>3</td>
</tr>
<tr>
<td>Drawing 101*</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 103</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 15 hours

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 201</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 201</td>
<td>3</td>
</tr>
<tr>
<td>Physics 201E</td>
<td>2</td>
</tr>
<tr>
<td>Physics 203</td>
<td>1</td>
</tr>
</tbody>
</table>

Total: 15 hours

**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 301</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 301</td>
<td>5</td>
</tr>
<tr>
<td>Economics 201</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 301</td>
<td>5</td>
</tr>
<tr>
<td>Statics 301*</td>
<td>3</td>
</tr>
<tr>
<td>Dynamics 302*</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 18 or 18 hours

In case the student has no credit in Advanced Algebra, Mathematics 101 must be taken, and in that event Mathematics 103 must be taken during the second semester.

In case the student has no credit in Solid Geometry, he should arrange to take Mathematics 102, if possible.

Electives must be chosen in consultation with the Dean.

4. **Diploma.** On satisfactory completion of either course the student will receive a three-year diploma.

5. **Degree.** On satisfactorily completing either course with a record of not less than 125 honor points received in the required 94 hours, the student is eligible for the degree of bachelor of science.

---

* See Engineering Subjects.
MINOR IN MUSIC

A student wishing to choose music as a minor subject must include in the minor sequence:

<table>
<thead>
<tr>
<th>Major</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory</td>
<td>102-104</td>
</tr>
<tr>
<td>Music Literature</td>
<td>211-212 or</td>
</tr>
<tr>
<td>Music History</td>
<td>305-306</td>
</tr>
</tbody>
</table>

Nursing Course

The Nursing Course at Blodgett Memorial Hospital in Grand Rapids, Michigan, is so arranged that the first two semesters of the total three-year program are taken at the college. The courses listed below are given during this period.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101</td>
<td>2</td>
</tr>
<tr>
<td>Biology 105</td>
<td>3</td>
</tr>
<tr>
<td>English 103</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 101N</td>
<td>4</td>
</tr>
<tr>
<td>Hygiene (Hospital)</td>
<td>2</td>
</tr>
<tr>
<td>Biology 107</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 106</td>
<td>2</td>
</tr>
<tr>
<td>English 104</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 201</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>Prof. Adjust. I</td>
<td>2</td>
</tr>
<tr>
<td>Hospital</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

Upon completion of these two semesters and an additional twenty-seven months of clinical experience at Blodgett Memorial Hospital, the student is granted a diploma in nursing. She is then eligible to write the examinations given by the Michigan Board of Registration of Nurses, and upon passing these examinations receives a certificate to practice as a registered nurse.

Students wishing to take this course must make application at Blodgett Memorial Hospital with the Director of the School of Nursing, preferably before August 1.

For students who wish to enter Butterworth Hospital of Grand Rapids, Michigan, the following subjects are suggested:

<table>
<thead>
<tr>
<th>Major</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 101N</td>
<td>4</td>
</tr>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>European History</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 201</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology 109, 110</td>
<td>6</td>
</tr>
<tr>
<td>Speech</td>
<td>4</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

In addition to the above, Bible (2 hours) and Physical Education are required.

For electives the student is advised to choose a subject of her own choice, preferably History, English, Literature or Science.

Upon completion of this course and three years in the School of Nursing at Blodgett Memorial Hospital, the student will be eligible for registration by the Michigan State Board of Registration for Nurses.

**Requirements for Graduation**

**Bachelor of Science in Nursing, on the combined Curriculum Plan**

The student must

1. Meet regular admission requirements to the college, including among high school credits Algebra, Geometry, and Chemistry or Physics;
2. Successfully complete 94 semester hours of pre-professional subjects considered fundamental in any liberal arts program;
3. Complete an additional 27 to 30 months of training at an accredited hospital school of nursing.

Courses of a technical nature, such as mechanical or free-hand drawing, practical or physical education are not acceptable as advanced credit toward the 94 hours of college work.

The required core course sequence in the program are the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible</td>
<td>6</td>
</tr>
<tr>
<td>English Composition and Rhetoric</td>
<td>6</td>
</tr>
<tr>
<td>English or American Literature</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Psychology</td>
<td>6</td>
</tr>
<tr>
<td>Sociology, Intro.</td>
<td>3</td>
</tr>
<tr>
<td>Sociology, Problems or the Family</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy (not incl. Psych. or Logic)</td>
<td>3</td>
</tr>
<tr>
<td>*Ancient Language</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry (Inorganic)</td>
<td>8</td>
</tr>
<tr>
<td>Organic and Biochemistry</td>
<td>8</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>General Biology</td>
<td>6</td>
</tr>
<tr>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Embryology</td>
<td>4</td>
</tr>
<tr>
<td>Biological Problems</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>88</td>
</tr>
</tbody>
</table>

To complete the 94 hours, the student may elect courses in Literature, History, Education, Chemistry, Political Science, Biology such as Histology or Parasitology, or Elementary Physics.

**Bachelor of Science in Medical Technology, on the Combined Curriculum Plan**

The student must

1. Meet regular admission requirements to the college, including among high school credits Algebra, Geometry, and Chemistry or Physics;
2. Successfully complete 94 semester hours of pre-professional subjects considered fundamental in any liberal arts program;
3. Complete an additional 12 months of training at an accredited school of Medical Technology.

Courses of a technical nature, such as mechanical or free-hand drawing, practical or physical education are not acceptable as advanced credit toward the 94 hours of college work.
MINOR IN MUSIC

A student wishing to choose music as a minor subject must include in the minor sequence:
- Music Theory 108-104
- Music Literature 211-212 or
- Music History 305-306

Nursing Course

The Nursing Course at Blodgett Memorial Hospital in Grand Rapids, Michigan, is so arranged that the first two semesters of the total three-year program are taken at the college. The courses listed below are given during this period.

**First Semester**
- Biology 101 2 hours
- Biology 105 3 hours
- English 103 3 hours
- Chemistry 101N 4 hours
- Hygiene (Hospital) 2 hours
- Biology 107 4 hours
- Bible 18 hours

**Second Semester**
- Biology 106 2 hours
- English 104 3 hours
- Psychology 201 3 hours
- Nutrition 3 hours
- Pharmacology 1 hour
- Prof. Adjust. 2 hours
- Nursing Arts (Hospital) 1 hour
- Physical Education 2 hours

17 hours

Upon completion of these two semesters and an additional twenty-seven months of clinical experience at Blodgett Memorial Hospital, the student is granted a diploma in nursing. She is then eligible to write the examinations given by the Michigan Board of Registration of Nurses, and upon passing these examinations receives a certificate to practice as a registered nurse.

Students wishing to take this course must make application at Blodgett Memorial Hospital with the Director of the School of Nursing, preferably before August 1.

For students who wish to enter Butterworth Hospital of Grand Rapids, Michigan, the following subjects are suggested:
- Chemistry 101N 4 hours
- English Composition 6 hours
- European History 3 hours
- Psychology 201 3 hours

In addition to the above, Bible (2 hours) and Physical Education are required.

For electives the student is advised to choose a subject of her own choice, preferably History, English, Literature or Science.

Upon completion of this course and three years in the School of Nursing at Butterworth Hospital, the student will be eligible for registration by the Michigan State Board of Registration for Nurses.

Bachelor of Science in Nursing, on the combined Curriculum Plan

The student must

1. Meet regular admission requirements to the college, including among high school credits Algebra, Geometry, and Chemistry or Physics;
2. Successfully complete 94 semester hours of pre-professional subjects considered fundamental in any liberal arts program;
3. Complete an additional 27 to 30 months of training at an accredited hospital school of nursing.

Courses of a technical nature, such as mechanical or free-hand drawing, practical or physical education are not acceptable as advanced credit toward the 94 hours of college work.

The required college courses in the program are the following:
- Bible 6 hours
- English Composition and Rhetoric 6 hours
- English or American Literature 6 hours
- History 6 hours
- Psychology 6 hours
- Sociology, Intro. 3 hours
- Sociology, Problems of The Family 3 hours
- Philosophy (not incl. Psych. or Logic) 3 hours
- Ancient Language 8 hours
- Chemistry (Inorganic) 8 hours
- Organic and Biochemistry 8 hours
- Human Anatomy and Physiology 5 hours
- General Biology 6 hours
- Microbiology 4 hours
- Introduction to Embryology 4 hours
- Biological Problems 2 hours
- Pharmacology 1 hour
- Nutrition 3 hours
- *Ancient Language 8 hours
- *Chemistry (Inorganic) 8 hours
- *Organic and Biochemistry 8 hours
- *Human Anatomy and Physiology 5 hours
- *General Biology 6 hours
- *Microbiology 4 hours
- *Introduction to Embryology 4 hours
- *Biological Problems 2 hours
- *Pharmacology 1 hour
- *Nutrition 3 hours

88 hours

To complete the 94 hours, the student may elect courses in Literature, History, Education, Chemistry, Political Science, Biology such as Histology or Parasitology, or Elementary Physics.

Bachelor of Science in Medical Technology, on the Combined Curriculum Plan

The student must

1. Meet regular admission requirements to the college, including among high school credits Algebra, Geometry, and Chemistry or Physics;
2. Successfully complete 94 semester hours of pre-professional subjects considered fundamental in any liberal arts program;
3. Complete an additional 12 months of training at an accredited school of Medical Technology.

Courses of a technical nature, such as mechanical or free-hand drawing, practical or physical education are not acceptable as advanced credit toward the 94 hours of college work.
The required college courses in the program are the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible (including 301)</td>
<td>6</td>
</tr>
<tr>
<td>English Composition and Rhetoric</td>
<td>6</td>
</tr>
<tr>
<td>English or American Literature</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Psychology</td>
<td>6</td>
</tr>
<tr>
<td>Sociology (Introduction or Problems)</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy (Introduction to)</td>
<td>3</td>
</tr>
<tr>
<td>*Ancient Language</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry (Inorganic) 103 and 104</td>
<td>8</td>
</tr>
<tr>
<td>Organic and Biochemistry</td>
<td>8</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>8</td>
</tr>
<tr>
<td>General Biology</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology</td>
<td>8</td>
</tr>
<tr>
<td>Microscopic Technique</td>
<td>1</td>
</tr>
<tr>
<td>Biological Problems</td>
<td>2</td>
</tr>
<tr>
<td>Histology</td>
<td>2</td>
</tr>
<tr>
<td>Parasitology</td>
<td>4</td>
</tr>
<tr>
<td>Physics (Introductory)</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>94</strong></td>
</tr>
</tbody>
</table>

**Suggested Program**

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 105</td>
<td>3</td>
</tr>
<tr>
<td>Biology 109</td>
<td>3</td>
</tr>
<tr>
<td>English 108</td>
<td>3</td>
</tr>
<tr>
<td>Latin or Greek 101</td>
<td>4</td>
</tr>
<tr>
<td>Physics 101</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 106</td>
<td>2</td>
</tr>
<tr>
<td>Biology 110</td>
<td>3</td>
</tr>
<tr>
<td>English 104</td>
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<tr>
<td>Latin or Greek 102</td>
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<td>Physics 102</td>
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<td><strong>Total</strong></td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Bible 201</td>
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</tr>
<tr>
<td>Biology 107</td>
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<tr>
<td>Chemistry 103</td>
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</tr>
<tr>
<td>History 101</td>
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</tr>
<tr>
<td>Psychology 201</td>
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<td><strong>Total</strong></td>
<td><strong>16</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<td>Bible 202</td>
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<tr>
<td>Biology 204</td>
<td>1</td>
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<td>Elective</td>
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<tr>
<td>Chemistry 104</td>
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<tr>
<td>History 102</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 204</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>Bible 301</td>
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<tr>
<td>Biology 307</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 303</td>
<td>4</td>
</tr>
<tr>
<td>English 201</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 203</td>
<td>3</td>
</tr>
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<td><strong>Total</strong></td>
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<table>
<thead>
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<th>Course</th>
<th>Hours</th>
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<tbody>
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<td>Biology 306</td>
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<td>Biology 308</td>
<td>4</td>
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<tr>
<td>Chemistry 304</td>
<td>4</td>
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<tr>
<td>English 202</td>
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<tr>
<td>Psychology 312</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

* If a student has had Latin or Greek in high school, the number of hours prescribed may be reduced by four for each of the first two units.
The required college courses in the program are the following:

- Bible (including 301) ........................................ 6 hours
- English Composition and Rhetoric.......................... 6 hours
- English or American Literature.............................. 6 hours
- History .......................................................... 6 hours
- Psychology ...................................................... 6 hours
- Sociology (Introduction or Problems) ....................... 3 hours
- Philosophy (Introduction to) ................................ 3 hours
- *Ancient Language ............................................. 3 hours
- Chemistry (Inorganic) 103 and 104 ......................... 8 hours
- Organic and Biochemistry .................................... 8 hours
- Human Anatomy and Physiology ............................ 8 hours
- General Biology ................................................ 6 hours
- Microbiology .................................................... 4 hours
- Microscopic Technique ........................................ 1 hour
- Biological Problems ........................................... 2 hours
- Histology .......................................................... 2 hours
- Parasitology ...................................................... 4 hours
- Physics (Introductory) .......................................... 6 hours
- Elective ............................................................ 2 hours

94 hours

**SUGGESTED PROGRAM**

**Freshman Year**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>Biology 105</td>
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<tr>
<td>English 103</td>
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</tr>
<tr>
<td>Latin or Greek</td>
<td>Latin or Greek</td>
</tr>
<tr>
<td>Physics 101</td>
<td>Physics 102</td>
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</table>

16 hours

15 hours

**Sophomore Year**

<table>
<thead>
<tr>
<th>Biology 201</th>
<th>Bible 202</th>
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</thead>
<tbody>
<tr>
<td>Biology 107</td>
<td>Biology 304</td>
</tr>
<tr>
<td>Chemistry 103</td>
<td>Elective</td>
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<tr>
<td>History 101</td>
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<tr>
<td>Psychology 201</td>
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16 hours

15 hours

**Junior Year**

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16 hours

16 hours

*If a student has had Latin or Greek in high school, the number of hours prescribed may be reduced by four for each of the first two units.
DISCRIPTION OF COURSES

Art

Courses 231 and 332 may be credited in the Dutch department. They are of great benefit to teachers and students of history and literature.

201. Art for Elementary Teachers  Three hours
A course in art education in the elementary school. The areas of drawing, values, color, design, lettering and poster work are studied. The student is taught to develop skill in the manipulation of different art media, and gain some knowledge of teaching methods relevant to art.

202. Handcraft  Three hours
The course aims to give the student ideas in the field of craft problems related to the elementary grades. It requires work in clay modeling, weaving, and block printing.

228. Penmanship  Two hours
Manuscript and cursive writing. Theory and practice. No credit. For prospective teachers in elementary grades.

231. An Introduction to the History of the Fine Arts  Three hours
A survey of the history of architecture, painting, and sculpture in Ancient, Medieval and Renaissance times. The character of ancient art from Egypt through Rome will be followed by a study of medieval art from its beginning in the early days of the Christian era to its climax in the Gothic period of the thirteenth century. This course will be concluded with an introduction to the art of the Renaissance in Italy to 1600.

232. An Introduction to the History of the Fine Arts  Three hours
Continuation of 231. (1600 to the present.)

331. 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. 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.

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, revelation and inspiration, and related subjects are investigated. A specific introduction, inquiring into the contents, historical setting, literary form, and especially the permanent ethical and religious values of a few of the individual books.

102. Introduction to the Books of the Bible  Two hours
Continuation of 101.
DISCIPLINE OF COURSES

Art

Courses 321 and 322 may be credited in the Dutch department. They are of great benefit to teachers and students of history and literature.

201. Art for Elementary Teachers

Three hours

A course in art education in the elementary school. The areas of drawing, values, color, design, lettering and poster work are studied. The student is taught to develop skill in the manipulation of different art media, and given some knowledge of teaching methods relevant to art.

202. Handcraft

Three hours

The course aims to give the student ideas in the field of craft problems related to the elementary grades. It requires work in clay modeling, weaving, and block printing.

228. Penmanship

Two hours

Manuscript and cursive writing. Theory and practice. No credit. For prospective teachers in elementary grades.

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102. Introduction to the Books of the Bible

Two hours

Continuation of 101.
106. Old Testament History
   Two hours
   A survey, from the standpoint of special revelation, of the principal
   characters and the trend of events from the creation of the
   world to the return of the Jews from captivity. Special attention
   is given to the preparation for the coming Saviour. Some of the
   problems pertinent to Old Testament history are discussed and
   the significance of the various events is indicated. Lectures and
   collateral readings.

106. New Testament History
   Two hours
   A companion course to 105. Events of the intertestamental
   period are sketched with particular reference to the coming
   Messiah; the principal events and teachings of Christ as recorded
   in the gospels are treated; and the origin and early expansion of the
   Christian Church in apostolic times is surveyed. Lectures and
   collateral readings.

201. Reformed Doctrine
   Two hours
   An advanced course of study in the doctrine of the Christian
   religion as contained in the Bible and as reflected in the confes-
   sional standards of the Reformed Churches.

202. Reformed Doctrine
   Two hours
   Continuation of 201.

203. Missions
   Three hours
   In this course the history of missions in the ancient, medieval
   and modern periods is covered. Emphasis is placed on the Biblical
   principles involved, the methods employed, the areas covered, the
   main figures, and the measure of success and failure. The relation
   of world missions to the Second Advent is also discussed.

301. Studies in Calvinism
   Two hours
   An inquiry into the origin and nature of Calvinism, its influence
   upon the development of religion and political life, as well as the
   proper application of its principles to the church. The course
   consists of lectures, assigned readings, and essays. Open to Juniors
   and Seniors. To others only by special permission.

302. Hebrew Culture
   Two hours
   A study of the geographical, social, civic, and religious customs
   of the Hebrews, and of the people among whom they lived when the
   Bible arose.

303. History of the Christian Church
   Three hours
   A survey of the history of the Christian Church from its begin-
   nings to the present time.

304. History of the Christian Reformed Church
   Three hours
   The historical antecedents and the development of the Christian
   Reformed Church in America.

305. Calvinism in the Nineteenth Century
   Three hours
   A study of the development of historic Calvinism during the
   Nineteenth Century, noting the progress (or lack of progress)
   which Calvinism has made in the various Calvinistic countries, and
   particularly in the ecclesiastical spheres.

308. Reformed Theology and the Modern Theological Situation
   Three hours
   In this course the Reformed Faith will be set over against mod-
   ern deviations and defections from the faith. The inclusivist tem-
   per of modern ecumenical movements will be exposed and opposed.
   Modern Liberalism will be traced to its source in Schleiermacher
   and Kant. Its dominance and decay, together with the rise of the
   new modernism in Barthianism, will be discussed.

310. Romans
   Three hours
   A presentation of the teachings of the apostle Paul in his epistle
   to the Romans as they center about Revelation, Redemption, Pre-
  destination, and Christian Ethics. Lectures, collateral reading, and
   reports.

Biology

A. General Biology Major. For students preparing to teach Biology
   the following courses are required:

   General College requirements (see p. 36), omitting Chemistry 305
   and 306.

   Biology, 109 and 110, 105 and 106, 111 and 112, 201, 207, 306, 311
   and 312.

   Chemistry, 103 and 104, and either Chemistry 303 and 304, or Physics
   304 and Electrical Measurements.

   Mathematics, 101 and 104, and Physics, 201 and 202.

B. Human Biology Major. For students preparing for various kinds
   of personal service, or specializing for advanced work in the medical
   sciences, or for industry, the following curriculum is required:

   General College requirements (see p. 36), omitting Chemistry 305
   and 306.

   Biology, 109 and 110, 103, 105 and 106, 107 or 201 or 207 and 306,
   206, 307 or 311, 308, and 312.

   Chemistry, 103 and 104; Mathematics, 101 and 104; and Physics 201
   and 202.

C. For students who elect Biology as a minor, one of the following
   sequences is advised, fifteen hours being required in each:

   a) Botany and Bacteriology: Biology, 109 and 110, 107, 111 and
      112, 207.

   b) General Biology: Biology, 109 and 110, 105 and 106, 201, 207,
      and 306.

   c) Human Biology: Biology, 109 and 110, 103, 105 and 106, 308, and
      312.

   d) Zoology: Biology, 109 and 110, 201, 206, 208, 307, 308, 311 and 312.

D. For Students preparing to teach Science Subjects in the Junior
   High School, or for those preparing to teach Biology, Chemistry,
   and Physics in smaller Junior High Schools, the following require-
   ments have been established:

   General College requirements (see p. 36), omitting Chemistry 305
   and 206.

   Education requirements (see pp. 40 and 41).

   Biology, 109 and 110, 105 and 106, 206 or 207, and 306.

   Chemistry, 100 and 104, 200 and 304.

   Mathematics, 101 or 102, and 104.

   Physics, 201E and 202E, 203 and 204, and 304.

102. Human Physiology
   Two hours
   An introductory study of the organization, development, and
   physiological activities of the human body. The work of this
   course is so arranged that, if desired, it may be continued in
   course 105. At the same time it is planned to supplement
   course 103. Prerequisite: Biology 109 and 110.

103. Personal Hygiene
   Three hours
   The proper care of our bodies and approved practices for the
   prevention of disease are studied. Courses 102 and 103 together
   form a course which will be traced to the needs of students who expect
   to teach health subjects in the elementary grades. Offered both
   semesters. Prerequisite: Biology 109 and 110.
### Old Testament History
**Two hours**
A survey, from the standpoint of special revelation, of the principal characters and the trend of events from the creation of the world to the return of the Jews from captivity. Special attention is given to the preparation for the coming Saviour. Some of the problems pertinent to Old Testament history are discussed and the significance of the various events is indicated. Lectures and collateral readings.

### New Testament History
**Two hours**
A companion course to 105. Events of the intertestamental period are sketched with particular reference to the coming Messiah; the principal events and teachings of Christ as recorded in the gospels are treated; and the origin and early expansion of the Christian Church in apostolic times is surveyed. Lectures and collateral readings.

### Reformed Doctrine
**Two hours**
An advanced course of study in the doctrine of the Christian religion as contained in the Bible and as reflected in the confessional standards of the Reformed Churches.

### Reformed Doctrine
**Continuation of 201.**

### Missions
**Three hours**
In this course the history of missions in the ancient, medieval and modern periods is covered. Emphasis is placed on the Biblical principles involved, the methods employed, the areas covered, the main figures, and the measure of success and failure. The relation of world missions to the Second Advent is also discussed.

### Studies in Calvinism
**Two hours**
An inquiry into the origin and nature of Calvinism, its influence upon the development of religion and political life, as well as the proper application of its principles to these spheres. The course consists of lectures, assigned readings, and essays. Open to Juniors and Seniors. To others only by special permission.

### Hebrew Culture
**Two hours**
A study of the geographical, social, civic, and religious customs of the Hebrews, and of the people among whom they lived when the Bible arose.

### History of the Christian Church
**Three hours**
A survey of the history of the Christian Church from its beginnings to the present time.

### History of the Christian Reformed Church
**Three hours**
The historical antecedents and the development of the Christian Reformed Church in America.

### Calvinism in the Nineteenth Century
**Three hours**
A study of the development of historic Calvinism during the Nineteenth Century, noting the progress (or lack of progress) which Calvinism has made in the various Calvinistic countries, particularly the ecclesiastical spheres.

### Reformed Theology and the Modern Theological Situation
**Three hours**
In this course the Reformed Faith will be set over against modern deviations and defections from the faith. The inclusivist temper of modern ecumenical movements will be exposed and opposed. Modern Liberalism will be traced to its source in Schleiermacher and Kant. Its dominance and decay, together with the rise of the new modernism in Barthianism, will be discussed.

### Biology
**Three hours**
A presentation of the teachings of the apostle Paul in his epistle to the Romans as they center about Revelation, Redemption, Predestination, and Christian Ethics. Lectures, collateral reading, and reports.

#### Biology

**A. General Biology Major.** For students preparing to teach Biology the following courses are required:

- General College requirements (see p. 36), omitting Chemistry 305 and 306.
- Chemistry, 103 and 104, and either Chemistry 303 and 304, or Physics 304 and Electrical Measurements.

**B. Human Biology Major.** For students preparing for various kinds of personal service, or specializing for advanced work in the medical sciences, or for industry, the following curriculum is required:

- General College requirements (see p. 36), omitting Chemistry 305 and 306.
- Biology, 109 and 110, 103, 105 and 106, 107 or 201 or 207 and 306, 206, 307 or 311, 308, and 312.
- Chemistry, 103 and 104; Mathematics, 101 and 104; and Physics 201 and 202.

**C. For students who elect Biology as a minor,** one of the following sequences is advised, fifteen hours being required in each:

- a) Botany and Bacteriology: Biology, 109 and 110, 107, 111 and 112, 207.
- b) General Biology: Biology, 109 and 110, 105 and 106, 201, 207, and 306.
- c) Human Biology: Biology, 109 and 110, 103, 105 and 106, 308, and 312.
- d) Zoology: Biology, 109 and 110, 201, 206, 208, 307, 308, 311, and 312.

**D. For Students preparing to teach Science Subjects** in the Junior High School, or for those preparing to teach Biology, Chemistry, and Physics in smaller Senior High Schools, the following requirements have been established:

- General College requirements (see p. 36), omitting Chemistry 305 and 306.
- Education requirements (see pp. 40 and 41).
- Biology, 109 and 110, 105 and 106, 206 or 207, and 306.
- Chemistry, 103 and 104, 303 and 304.
- Mathematics, 101 or 102, and 104.
- Physics, 201E and 202E, 203 and 204, and 304.

### Human Physiology
**Two hours**
An introductory study of the organization, development, and physiological activities of the human body. The work of this course is so arranged that, if desired, it may be continued in course 105. At the same time it is planned to supplement course 103. Prerequisite: Biology 109 and 110.

### Personal Hygiene
**Three hours**
The proper care of our bodies and approved practices for the prevention of disease are studied. Courses 102 and 103 together form a course which is adapted to the needs of students who expect to teach health subjects in the elementary grades. Offered both semesters. Prerequisite: Biology 109 and 110.
105. **HUMAN ANATOMY AND PHYSIOLOGY**  
Three hours  
An introduction to the study of human biology, including elements of embryology, genetics, anatomy, histology, and physiology. Two hours of lectures and one laboratory period a week. Laboratory fee, $3.00. Prerequisite: Biology 109 and 110.

106. **HUMAN ANATOMY AND PHYSIOLOGY**  
Two hours  
Continuation of course 105. Lectures and quizzes.

107. **PRINCIPLES OF MICROBIOLOGY**  
Four hours  
The history of Microbiology and the cultural and morphological characteristics of bacteria, yeasts, and molds are considered. Special emphasis is placed on communicable diseases. This course is adapted to pre-nursing students, but is open to all others. Three hours of lectures and quizzes. One laboratory period a week. Laboratory fee, $3.00. Prerequisite: Biology 109 and 110.

109. **GENERAL BIOLOGY**  
Three hours  
An introductory study of the basic principles of the various divisions of biology with emphasis upon the broad cultural aspects of this science. Two lectures and one laboratory period a week. Laboratory fee, $3.00.

110. **GENERAL BIOLOGY**  
Three hours  
Continuation of Biology 109. Lectures or quizzes.

111. **GENERAL BOTANY**  
Four hours  
Anatomy and physiology of seed plants. Open to freshmen. Three recitations and one laboratory period a week. Laboratory fee, $3.00. Prerequisite: Biology 109 and 110.

112. **GENERAL BOTANY**  
Four hours  
This course with course 111 constitutes a full year's course in botany. A comparative study of plant forms and life histories of representative plants. The course offers a general systematic view of the plant kingdom. Three lectures of hours and quizzes, one laboratory period a week. Laboratory fee, $3.00.

201. **INVERTEBRATE ZOOLOGY**  
Four hours  
Anatomy, physiology, behavior, and classification of animals representative of the invertebrate groups. Insects and disease-causing forms are emphasized. Three hours of lectures, recitations, and recitation; and three hours of laboratory work per week. Laboratory fee, $3.00.

206. **NATURAL HISTORY**  
Three hours  
A study of the classification, identification, appearance, and habits of animals which are more commonly met near our homes, in zoological parks, or on pleasure trips. Birds and fur-bearers will receive special consideration. The course consists of lectures, museum study, laboratory work, and field work. Two lectures and one laboratory period a week. Laboratory fee, $3.00.

207. **GENETICS**  
Three hours  
A study of the ways and means by which the inherited characteristics of plants, animals, and man are transmitted from parents to offspring. The course consists of lectures and problems concerning applications of the laws of heredity.

208. **INTRODUCTION TO EMBRYOLOGY**  
Four hours  
A study of the development of vertebrate animals. Three hours of lectures and recitations and three hours of laboratory work per week. Laboratory fee, $3.00.

210. **GENERAL BIOLOGY**  
Two hours  
A brief survey of the more significant phenomena and principles of several divisions of biology, such as plant and animal anatomy, physiology, and classification. The interrelations between plants and animals are emphasized. Two hours of lectures or recitations and one hour of demonstrations per week.

212. **NUTRITION**  
Three hours  
The study of fundamental principles of human nutrition at all ages, applied to individual, family, and community nutrition problems. Two lectures and one laboratory period a week. To be preceded or accompanied by 102 or 106. Laboratory fee, $3.00.

304. **MICROSCOPIC TECHNIQUE**  
One hour  
The technique of slide making. Killing, fixing, dehydrating, embedding, sectioning, staining, and mounting of tissues. Three hours of laboratory work per week. Laboratory fee, $3.00.

306. **BIOLOGICAL PROBLEMS**  
Two hours  
The history of biology and the evidences for evolution and organic teleology are considered. Lectures, assigned readings, recitations, and reports. Prerequisites: 109 and 110 or equivalent courses.

307. **PARASITOLOGY**  
Four hours  
An introduction to the study of the parasites of man and of common animals. Classification, and life-cycles of the parasites, and reactions of the hosts will be studied. Three lectures and one laboratory period a week. Laboratory fee, $3.00.

308. **HISTOLOGY**  
Four hours  
A study of mammalian tissues. The relation between microscopic structure and function will be emphasized. Three lectures and one laboratory period a week. Laboratory fee, $3.00.

311. **VERTEBRATE ZOOLOGY**  
Two hours  
An introduction to the study of vertebrates with emphasis on their comparative anatomy. Evolution problems are discussed. One lecture and one laboratory period a week. Laboratory fee, $3.00.

312. **VERTEBRATE ZOOLOGY**  
Three hours  
A continuation of 311. Two lectures and one laboratory period a week. Laboratory fee, $3.00.

330a. **TEACHING BIOLOGY**  
Two hours  
Points of view, contents, and methods of teaching secondary biology, and human physiology and hygiene. Prerequisite. twenty hours of Biology.

**Chemistry**

A student who wishes to major in chemistry should complete the following courses: 103-4, 201-2, 301-2, 307-8 and 310. In related fields, he should complete Mathematics through Calculus, and Physics 201 and 202.

101. **GENERAL CHEMISTRY**  
Four hours  
A non-technical course designed for students who do not need chemistry for pre-professional study. This course is a terminal course and includes a survey of inorganic and organic chemistry. Credit earned in this course can be applied to the laboratory experience requirement for graduation. Three hours in class-room and one three-hour laboratory period per week. Laboratory fee, $3.00. Breakage fee, $5.00. No prerequisites. Not offered in 1951-52.
105. **HUMAN ANATOMY AND PHYSIOLOGY**
Three hours
An introduction to the study of human biology, including elements of embryology, genetics, anatomy, histology, and physiology. Two hours of lectures and one laboratory period per week. Laboratory fee, $3.00. Prerequisite: Biology 109 and 110.

106. **HUMAN ANATOMY AND PHYSIOLOGY**
Two hours
Continuation of course 105. Lectures and quizzes.

107. **PRINCIPLES OF MICROBIOLOGY**
Four hours
The history of Microbiology and the cultural and morphological characteristics of bacteria, yeasts, and molds are considered. Special emphasis is placed on communicable diseases. This course is adapted to pre-nursing students, but is open to all others. Three hours of lectures and quizzes. One laboratory period a week. Laboratory fee, $3.00. Prerequisite: Biology 109 and 110.

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Anatomy, physiology, behavior, and classification of animals representative of the invertebrate groups. Insects and disease-causing forms are emphasized. Three hours of lectures, reports, and recitations; and three hours of laboratory work per week. Laboratory fee, $3.00.

206. **NATURAL HISTORY**
Three hours
A study of the classification, identification, appearance, and habits of animals which are more commonly met near our homes, in zoological parks, or on pleasure trips. Birds and fur-bearers will receive special consideration. The course consists of lectures, museum studies, laboratory work, and field work. Two lectures and one laboratory period a week. Laboratory fee, $3.00.

207. **GENETICS**
Three hours
A study of the ways and means by which the inherited characteristics of plants, animals, and man are transmitted from parents to offspring. The course consists of lectures and problems concerning applications of the laws of heredity.

208. **INTRODUCTION TO EMBRYOLOGY**
Four hours
A study of the development of vertebrate animals. Three hours of lectures and recitations and three hours of laboratory work per week. Laboratory fee, $3.00.

210. **GENERAL BIOLOGY**
Two hours
A brief survey of the more significant phenomena and principles of several divisions of biology, such as plant and animal anatomy, physiology, and classification. The interrelations between plants and animals are emphasized. Two hours of lectures or recitations and one hour of demonstrations per week.

212. **NUTRITION**
Three hours
The study of fundamental principles of human nutrition at all ages, applied to individual, family, and community nutrition problems. Two lectures and one laboratory period a week. To be preceded and accompanied by 102 or 106. Laboratory fee, $3.00.

304. **MICROSCOPIC TECHNIQUE**
One hour
The technique of slide making. Killing, fixing, dehydrating, embedding, sectioning, staining, and mounting of tissues. Three hours of laboratory work per week. Laboratory fee, $3.00.

306. **BIOLOGICAL PROBLEMS**
Two hours
The history of biology and the evidences for evolution and organic distribution are considered. Lectures, assigned readings, recitations, and reports. Prerequisites: 109 and 110 or equivalent courses.

307. **PARASITOLOGY**
Four hours
An introduction to the study of the parasites of man and of common animals. Classification, and life-cycles of the parasites, and reactions of the hosts will be studied. Three lectures and one laboratory period a week. Laboratory fee, $3.00.

308. **HISTOLOGY**
Four hours
A study of mammalian tissues. The relation between microscopic structure and function will be emphasized. Three lectures and one laboratory period a week. Laboratory fee, $3.00.

311. **VERTEBRATE ZOOLOGY**
Two hours
An introduction to the study of vertebrates with emphasis on their comparative anatomy. Evolution problems are discussed. One lecture and one laboratory period a week. Laboratory fee, $3.00.

312. **VERTEBRATE ZOOLOGY**
Three hours
A continuation of 311. Two lectures and one laboratory period a week. Laboratory fee, $3.00.

330. **TEACHING BIOLOGY**
Two hours
Points of view, contents, and methods of teaching secondary biology, and human physiology and hygiene. Prerequisite: twenty hours of Biology.

**Chemistry**

A student who wishes to major in chemistry should complete the following courses: 103-4, 201-2, 301-2, 307-8 and 310. In related fields, he should complete Mathematics through Calculus, and Physics 201 and 202.

101. **GENERAL CHEMISTRY**
Four hours
A non-technical course designed for students who do not need chemistry for pre-professional study. This course is a terminal course and includes a survey of inorganic and organic chemistry. Credit earned in this course can be applied to the laboratory science requirement for graduation. Three hours in class-room and one three-hour laboratory period per week. Laboratory fee, $3.00. Breakage fee, $3.00. No prerequisites. Not offered in 1951-52.
102. **General Chemistry**  
Continuation of 101. Hours, texts and fees the same. Not offered in 1951-52.

103. **General Inorganic Chemistry**  
Four hours
This course is designed for students who plan to take further work in the department, e.g., chemistry majors, pre-medical, and pre-dental students. Three hours in class-room and one three-hour laboratory period per week. Laboratory fee, $3.00. Breakage fee, $3.00. No prerequisites, although a knowledge of high school chemistry is desirable.

104. **General Inorganic Chemistry**  
Four hours
Continuation of 103. Hours, texts and fees the same.

101N. **Chemistry for Nurses**  
Four hours
A one semester course designed for students in the regular pre-nursing course. A survey of inorganic, organic, and biological chemistry as applied to the field of medicine. Three class-room hours and one two-hour laboratory period per week. Laboratory fee, $3.00. Breakage fee, $3.00. No prerequisites. Note: Students preparing for a B.S. in nursing are advised to take 108E and 104E.

201. **Qualitative Analysis**  
Four hours
Two hours of class-room work, one quiz period, and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: 103 and 104, and Mathematics 101.

202. **Quantitative Analysis**  
Four hours
Two hours in the class-room and from eight to ten hours of laboratory work per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisite: 201.

205. **Introduction to Physical Science**  
Three hours
This course attempts to evaluate critically the basic assumptions, simple laws and results of modern scientific investigations in the fields of chemistry, physics, and geology. Emphasis is placed on the interrelation of these fields rather than a study of each unit by itself. Prerequisite: Mathematics 101.

206. **Introduction to Physical Science**  
Three hours
Continuation of 205.

301. **Organic Chemistry**  
Four hours
Two or three hours of class-room work, one quiz period, and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisite: General Inorganic Chemistry.

302. **Organic Chemistry**  
Four hours
Continuation of 301. Hours and fees the same. This course deals primarily with aromatic compounds. Prerequisites: General Inorganic Chemistry and 301.

303. **Organic-Biochemistry**  
Four hours
A brief study of important classes of organic compounds with special emphasis on biochemistry, chemistry of carbohydrates, proteins, fats, enzymes and other subjects. For pre-nursing, pre-medical technology students, and for teachers who have a minor in chemistry. Three hours of class-room work and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: Chemistry 103 and 104.

304. **Organic-Biochemistry**  
Four hours
Continuation of 303. Hours and fees the same.

307. **Physical Chemistry**  
Four hours
A study of the kinetic theory of gases, solids and liquids. Three lecture hours and one laboratory period per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: Chemistry 201, Physics 201, Mathematics 301.

Note: Pre-medical students may take the lectures for three hours credit.

308. **Chemistry**  
Four hours
A continuation of 307. Hours and fees the same. A study of electrochemistry, chemical thermodynamics and nuclear structure.

308m. **Physical Chemistry for Pre-Medical Students**  
Three hours
A study of the states of matter, properties of solutions, chemical kinetics and the colloidal state. Open only to pre-medical students.

309. **Biochemistry**  
Four hours
A discussion of the fundamentals of biochemistry, chemistry of carbohydrates, proteins and fats, enzymes, colloids, digestive processes, metabolism and other subject matter essential to an understanding of biochemistry. Three hours of classroom work and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: 301 and 302.

310. **Qualitative Organic Analysis**  
Four hours
One and one-half hours of lecture and three laboratory periods per week. This course is based on Shirner and Pason's text. Prerequisite: Chemistry 302. Laboratory fee, $3.00. Breakage fee, $7.00.

330m. **Teachers' Course**  
One hour
Methods of teaching chemistry in secondary schools. Prerequisite: two years of chemistry.

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**Dutch**

A. **DUTCH LANGUAGE**

101. **Elementary Grammar**  
Conjugations and declensions.  
Four hours

102. **Advanced Grammar**  
Four hours

201. **Intermediate Dutch**  
Reading of modern prose. Review of the more important parts of grammar. Outside reading of four hundred pages.  
Three hours

202. **Advanced Dutch**  
Reading of nineteenth century prose and poetry. Grammar review continued. Outside reading of four hundred pages.  
Three hours

305. **Modern Literature**  
The outstanding prose writers and poets after 1850 are read and the movements of naturalism, symbolism, neo-romanticism and neo-vitalism are discussed. Required outside reading and essays.  
Three hours

306. **Renaissance and Romanticism**  
The leading authors of the Renaissance and the Romantic Movement. Required outside reading and essays.  
Three hours

Note: These courses and Dutch History 226 are required of those who take the pre-Seminary course.
102. **GENERAL CHEMISTRY**  
*Four hours*  
Continuation of 101. Hours, texts and fees the same. Not offered in 1951-52.

103. **GENERAL INORGANIC CHEMISTRY**  
*Four hours*  
This course is designed for students who plan to take further work in the department, e.g., chemistry majors, pre-medical, and pre-dental students. Three hours in class-room and one three-hour laboratory period per week. Laboratory fee, $5.00. Breakage fee, $5.00. No prerequisites, although a knowledge of high school chemistry is desirable.

104. **GENERAL INORGANIC CHEMISTRY**  
*Four hours*  
Continuation of 103. Hours, texts and fees the same.

101N. **CHEMISTRY FOR NURSES**  
*Four hours*  
A one semester course designed for students in the regular pre-nursing course. A survey of inorganic, organic, and biological chemistry as applied to the field of medicine. Three class-room hours and one two-hour laboratory period per week. Laboratory fee, $3.00. Breakage fee, $5.00. No prerequisites.  
*Note:* Students preparing for a B.S. in nursing are advised to take 103E and 104E.

201. **QUALITATIVE ANALYSIS**  
*Four hours*  
Two hours of class-room work, one quiz period, and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: 103 and 104, and Mathematics 101.

202. **QUANTITATIVE ANALYSIS**  
*Four hours*  
Two hours in the class-room and from eight to ten hours of laboratory work per week. Laboratory fee, $6.00. Breakage fee, $7.00. Prerequisite: 201.

205. **INTRODUCTION TO PHYSICAL SCIENCE**  
*Three hours*  
This course attempts to evaluate critically the basic assumptions, simple laws and results of modern scientific investigations in the field of chemistry, physics, and geology. Emphasis is placed on the interrelation of these fields rather than a study of each unit by itself. Prerequisite: Mathematics 101.

206. **INTRODUCTION TO PHYSICAL SCIENCE**  
*Three hours*  
Continuation of 205.

301. **ORGANIC CHEMISTRY**  
*Four hours*  
Two or three hours of class-room work, one quiz period, and two laboratory periods of three hours each per week. Laboratory fee, $8.00. Breakage fee, $7.00. Prerequisite: General Inorganic Chemistry.

302. **ORGANIC CHEMISTRY**  
*Four hours*  
Continuation of 301. Hours and fees the same. This course deals primarily with aromatic compounds. Prerequisites: General Inorganic Chemistry and 301.

303. **ORGANO-BIOCHEMISTRY**  
*Four hours*  
A brief study of important classes of organic compounds with special emphasis on biochemistry, chemistry of carbohydrates, proteins, fats, enzymes and other subjects. For pre-nursing, pre-medical technology students, and for teachers who have a minor in chemistry. Three hours of classroom work and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: Chemistry 103 and 104.

304. **ORGANO-BIOCHEMISTRY**  
*Four hours*  
Continuation of 303. Hours and fees the same.

307. **PHYSICAL CHEMISTRY**  
*Four hours*  
A study of the kinetic theory of gases, solids and liquids. Three lecture hours and one laboratory period per week. Laboratory fee, $4.00. Breakage fee, $7.00. Prerequisites: Chemistry 201, Physics 201, Mathematics 301.  
*Note:* Pre-medical students may take the lectures for three hours credit.

308. **PHYSICAL CHEMISTRY**  
*Four hours*  
A continuation of 307. Hours and fees the same. A study of electrochemistry, chemical thermodynamics and nuclear structure.

308m. **PHYSICAL CHEMISTRY FOR PRE-MEDICAL STUDENTS**  
*Three hours*  
A study of the states of matter, properties of solutions, chemical kinetics and the colloidal state. Open only to pre-medical students.

309. **BIOCHEMISTRY**  
*Four hours*  
A discussion of the fundamentals of biochemistry, chemistry of carbohydrates, proteins and fats, enzymes, colloids, digestive processes, metabolism and other subject matter essential to an understanding of biochemistry. Three hours of classroom work and two laboratory periods of three hours each per week. Laboratory fee, $3.00. Breakage fee, $7.00. Prerequisites: 301 and 302.

310. **QUALITATIVE ORGANIC ANALYSIS**  
*Four hours*  
One and one-half hours of lecture and three laboratory periods per week. This course is based on Shriner and Pason's text. Prerequisite: Chemistry 302. Laboratory fee, $3.00. Breakage fee, $7.00.

330m. **TEACHERS' COURSE**  
*One hour*  
Methods of teaching chemistry in secondary schools. Prerequisite: two years of chemistry.

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**Dutch**

A. **DUTCH LANGUAGE**

101. **ELEMENTARY GRAMMAR**  
Conjugations and declensions.  
*Four hours*

102. **ADVANCED GRAMMAR**  
*Four hours*

201. **INTERMEDIATE DUTCH**  
Reading of modern prose. Review of the more important parts of grammar. Outside reading of four hundred pages.  
*Three hours*

202. **ADVANCED DUTCH**  
Reading of nineteenth century prose and poetry. Grammar review continued. Outside reading of four hundred pages.  
*Three hours*

305. **MODERN LITERATURE**  
The outstanding prose writers and poets after 1850 are read and the movements of naturalism, symbolism, neo-romanticism and neo-vitalism are discussed. Required outside reading and essays.  
*Three hours*

306. **RENAISSANCE AND ROMANTICISM**  
The leading authors of the Renaissance and the Romantic Movement. Required outside reading and essays.  
*Three hours*

*Note:* These courses and Dutch History 826 are required of those who take the pre-Seminary course.
340. Curriculum
Two hours
A study of curriculum requirements for grades four through six, and of the fundamental teaching procedures applying to children of later childhood. Observation required.

341. Directed Observation of Teaching and Lesson Planning
Two or three hours
About eighteen hours are spent in the schools of Grand Rapids with specific instructions for directed observation. For students planning to teach in the elementary schools, to be taken simultaneously with Education 245.

342. Directed Observation and Lesson Planning
Two or three hours
This course is like Education 341 and is for students looking for positions in the junior and senior high schools. To be taken simultaneously with Education 341.

343. Directed Teaching
Five hours
To be taken simultaneously with Education 341. For students planning to teach in the elementary schools. Offered both semesters. See prerequisites listed earlier in this catalogue under Education.

344. Directed Teaching
Five hours
To be taken simultaneously with Education 342. For students planning to teach in junior or senior high school. Offered both semesters. See prerequisites listed earlier in this catalogue under Education.

820m. 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

101. Mechanical Drawing
Three hours
The principles of orthographic projection; practice in the making of working drawings; practice in lettering; and tracing. Three two and one-half hour drafting-room periods, three hours home work a week.

102. Descriptive Geometry
Three hours
Exercises, instruction, and drill through the medium of SC printed plates of problems. Three two-hour drafting-room periods, three hours home work a week. Prerequisite: 101.

201. Mechanism and Sketching
Two hours
Sketching of models in orthographic, isometric, and oblique projection; practice in the making of working drawings from sketches: free-hand lettering. Two two-hour drafting-room periods, two hours home work a week. Prerequisite: 102.

207. Surveying
Two or three hours
Elementary theory and practice; use of instruments, reading vertices and angles; running straight lines; traverse survey; computing areas; leveling; profile; grade stakes; note keeping. Lectures, text assignments, one recitation, and one four-hour field period. Prerequisite: Mathematics 104.

301. Statics
Three hours
Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Forces, components, moments, cables, friction, centroids, moments of inertia. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 301 and Physics 201 or 201E.
314. **Principles of Teaching in the 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*. The teaching technique in each of the types of subjects in the curriculum is analyzed.

315. **Principles of Teaching in the Elementary Schools**  
*Three hours*

Principles governing the directing of learning of children in the elementary school will be taken up.

317. **Principles of Kindergarten-Primary Grades Teaching**  
*Two or three hours*

The course includes a brief history of past and present trends in kindergarten work; the capital of the child in these grades; the content of the curriculum for grades one, two, and three; and observations in actual classroom situations.

**D. PROFESSIONAL COURSES**

101. **Nature Study**  
*Three hours*

General introduction to the various phenomena of nature and the methods of teaching nature study in the elementary grades. Credit for A.B. in Education only.

220. **Teaching Arithmetic in Elementary Schools**  
*Three hours*

Both content and methods in arithmetic throughout the grades will be considered.

222. **Elementary School Music**  
*Three hours*

225. **Children's Literature (Story Telling)**  
*Two or three hours*

This course is offered in order to develop a knowledge of and an interest in good literature on the elementary level. The development of skill in story telling on the part of the teacher is also emphasized.

307. **School Administration**  
*Three hours*

This course aims to discuss the organization and management of state and local school systems.

310. **Educational Measurements**  
*Three hours*

A survey course of present-day practices of measuring the results of teaching. Mental testing is included.

318. **Teaching Geography in Elementary Schools: Methods and Content**  
*Three hours*

320. **Teaching Bible in Elementary Schools**  
*Two or three or four hours*

Both semesters.

322. **Teaching Reading in Elementary Schools**  
*Three hours*

Both semesters.

324. **Teaching History**  
*Two hours*

A brief survey of the history of our country will be fused with a study of the techniques of teaching history in the elementary and junior high grades.

326. **Teaching English in Secondary Schools**  
*One, two or three hours*

Content as well as method receives attention. Same as English 330m. Two hours devoted to content; one to method.

328. **Teaching Latin**  
*Three hours*

Same as Latin 327 and 330m combined.

332. **Remedial Reading**  
*Three hours*

**Engineering**

340. **Curriculum**  
*Two hours*

A study of curriculum requirements for grades four through six, and of the fundamental teaching procedures applying to children of later childhood. Observation required.

341. **Directed Observation of Teaching and Lesson Planning**  
*Two or three hours*

About eighteen hours are spent in the schools of Grand Rapids with specific instructions for directed observation. For students planning to teach in the elementary schools. To be taken simultaneously with Educ. 342.

342. **Directed Observation and Lesson Planning**  
*Two or three hours*

This course is like Education 341 and is for students looking for positions in the junior and senior high schools. To be taken simultaneously with Educ. 344.

343. **Directed Teaching**  
*Five hours*

To be taken simultaneously with Education 341. For students planning to teach in the elementary schools. Offered both semesters. See prerequisites listed earlier in this catalogue under Education.

344. **Directed Teaching**  
*Five hours*

To be taken simultaneously with Educ. 342. For students planning to teach in junior or senior high school. Offered both semesters. See prerequisites listed earlier in this catalogue under Education.

330m. **The Teaching of Latin or English, Etc.**

Teachers' courses offered in the various departments are all indicated by the number 330 followed by the letter m. For description see under the department wanted.

**Engineering**

101. **Mechanical Drawing**  
*Three hours*

The principles of orthographic projection; practice in the making of working drawings; practice in lettering; and tracing. Three two and one-half hour drafting-room periods, three hours at home a week.

102. **Descriptive Geometry**  
*Three hours*

Exercises, instruction, and drill through the medium of SC printed plates of problems. Three two-hour drafting-room periods, three hours at home a week. Prerequisite: 101.

201. **Mechanism and Sketching**  
*Two hours*

Sketching of models in orthographic, isometric, and oblique projection; practice in the making of working drawings from sketches; free-hand lettering. Two two-hour drafting-room periods, two hours at home a week. Prerequisite: 102.

207. **Surveying**  
*Two or three hours*

Elementary theory and practice; use of instruments, reading vertical and horizontal angles; running straight lines; traverse survey; computing areas; leveling; profile; grade stakes; note keeping. Lectures, text assignments, one recitation, and one four-hour field period. Prerequisite: Mathematics 104.

301. **Statics**  
*Three hours*

Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Forces, components, moments, cables, friction, centroids, moments of inertia. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 301 and Physics 201 or 201E.
302. DYNAMICS

Motion of a particle, dynamics of moving bodies, Newton's laws, simple harmonic motion, elementary vibration problems, balancing, pendulums, impulse and momentum, work and energy. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 302 and Physics 202 or 202E.

**English**

All Freshmen are required to take Freshman English (103-104). Upperclassmen whose programs of concentration require more than six hours of English, or who choose courses in English as electives, may, if they are sophomores, elect any 200-course, or, if they are Juniors or Seniors, any 300-course. In making their selection of courses, such students should normally favor periods or areas neglected in their past and anticipated programs of concentration.

Students who elect English as the subject of their major concentration should in their selection of courses aim at a disciplinary program historically pursued. A well-balanced program aiming at this objective would be the following:

- Freshman English 103-104: 6 hours
- Elizabethan Period 207: 3 hours
- American Literature 301: 3 hours
- Seventeenth Century 208: 3 hours
- Eighteenth Century 210: 3 hours
- American Literature 202: 3 hours
- Romantic Period 301: 3 hours
- Victorian Poetry 302: 3 hours
- Victorian Prose 310: 3 hours
- Contemporary Poetry 304: 3 hours
- The Novel 312: 3 hours

Such a suggested program need not be strictly followed; however, it is susceptible to adjustment in accordance with the student's special interests and his studies in related fields.

English 306 (Advanced Composition) and English 330m (Methods of Teaching English) should not be elected as contributing to a disciplinary program historically pursued, but as professional courses to be taken over and above the main concentration.

Students planning to pursue graduate studies in English should develop a college major (in the subject) of at least thirty hours. Such students should also achieve a reading knowledge of Latin, French, and German.

103. FRESHMAN ENGLISH

Grammar, rhetoric, and composition. Required of all freshmen, and prerequisite to all other courses in English. Textbooks, and periodic themes.

104. FRESHMAN ENGLISH

The theory, example, and practice of composition. A continuation of English 103, required of all freshmen, and prerequisite to all other courses in English. Textbooks, periodic themes, and a course paper.

201. AMERICAN LITERATURE

Analysis of important writings in the colonial and revolutionary periods. Emphasis upon culture and writings of the New England Group. Textbooks, collateral reading, and reports.

202. AMERICAN LITERATURE

Continuation of English 201. Intensive study of the poetry and prose of the eighteenth century, and an important twentieth century fiction and criticism. Textbooks, collateral reading, and reports.

207. LITERATURE OF THE ELIZABETHAN PERIOD

A survey of the poetic literature of the English renaissance, and an intensive study of the poems and plays of Shakespeare. Textbooks, collateral reading, and reports.

208. LITERATURE OF THE SEVENTEENTH CENTURY

A survey of the poetry and prose of the century, and an intensive study of the works of John Milton. Textbooks, collateral reading, and reports.

210. LITERATURE OF THE EIGHTEENTH CENTURY

A study of English poetry and prose from Dryden through Burns. Emphasis upon the neo-classicists: Dryden, Pope, Addison, Swift, and Johnson, and a study of the beginnings of the romantic outlook in Gray, Thomson, and Cowper. Textbooks, collateral reading, and reports.

301. LITERATURE OF THE ROMANTIC PERIOD

Intensive critical analysis of the work of Wordsworth, Coleridge, Byron, Keats, and Shelley, and a survey of other English poets writing in the years 1796-1830. Textbooks and critical papers.

302. POETRY OF THE VICTORIAN PERIOD

Intensive critical analysis of the work of Tennyson, Browning, and Arnold seen in relation to relevant cultural influences; a survey of the Pre-Raphaelite Movement; and consideration of the principal poems of Swinburne and Meredith. Textbooks, and brief course paper.

303. CONTEMPORARY ENGLISH FICTION

A study of English and American fiction, in its continental relations, from 1890 to the present time. Collateral reading and reports.

304. CONTEMPORARY ENGLISH POETRY

A study of the lyric and dramatic poetry of England, in its continental relations, from 1890 to the present time. Textbooks, collateral reading, and reports.

306. ADVANCED COMPOSITION

A practical course in the writing of such types of composition as the formal and informal essay, the informative and feature article, the editorial and book review, the short story, lyric poem, and the like. Some collateral reading and much student writing. Open, by permission only, to students who have ability or unusual interest in creative writing.

307. POETRY AND PROSE OF THE SEVENTEENTH CENTURY

A study of important poetry and prose in England from Donne to Dryden with particular emphasis upon the poetry of Donne, Herbert, Vaughan, Traherne, and Herrick, and upon the prose of Donne, Browne, and Taylor. Textbooks and a critical report.

310. NINETEENTH CENTURY ENGLISH PROSE

An intensive study of such representative English prose of the nineteenth century, exclusive of fiction, as the works of Carlyle, Ruskin, Arnold, Huxley, Mill, Newman, Pater, Stevenson, and others. Textbooks and reports.
English

302. DYNAMICS  
Three hours
Motion of a particle, dynamics of moving bodies, Newton’s laws, simple harmonic motion, elementary vibration problems, balancing, pendulums, impulse and momentum, work and energy. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 302 and Physics 202 or 202E.

English

All Freshmen are required to take Freshman English (103-104). Upperclassmen whose programs of concentration require more than six hours of English, or who choose courses in English as electives, may, if they are sophomores, elect any 200-course, or, if they are Juniors or Seniors, any 300-course. In making their selection of courses, such students should normally favor periods and areas neglected in their past and anticipated programs of concentration.

Students who elect English as the subject of their major concentration should in their selection of courses aim at a disciplinary program historically pursued. A well-balanced program aiming at this objective would be the following:

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<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Freshman English</td>
<td>6</td>
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<tr>
<td>Elizabethan Period</td>
<td>3</td>
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<tr>
<td>American Literature</td>
<td>3</td>
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<td>Seventeenth Century</td>
<td>3</td>
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<td>Eighteenth Century</td>
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<td>American Literature</td>
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<tr>
<td>Romantic Period</td>
<td>3</td>
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<tr>
<td>Victorian Poetry</td>
<td>3</td>
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<tr>
<td>Victorian Prose</td>
<td>3</td>
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<tr>
<td>Contemporary Poetry</td>
<td>3</td>
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</tbody>
</table>

The Novel ___________________ 3 hours

Such a suggested program need not be strictly followed, however; it is susceptible to adjustment in accordance with the student’s special interests and his studies in related fields.

English 306 (Advanced Composition) and English 309m (Methods of Teaching English) should not be elected as contributing to a disciplinary program historically pursued, but as professional courses to be taken over and above the main concentration.

Students planning to pursue graduate studies in English should develop a college major (in the subject) of at least thirty hours. Such students should also achieve a reading knowledge of Latin, French, and German.

103. FRESHMAN ENGLISH  
Three hours
Grammar, rhetoric, and composition. Required of all freshmen, and prerequisite to all other courses in English. Textbooks, and periodic themes.

104. FRESHMAN ENGLISH  
Three hours
The theory, example, and practice of composition. A continuation of English 103, required of all freshmen, and prerequisite to all other courses in English. Textbooks, periodic themes, and a course paper.

201. AMERICAN LITERATURE  
Three hours
Analysis of important writings in the colonial and revolutionary periods. Emphasis upon culture and writings of the New England Group. Textbooks, collateral reading, and reports.

202. AMERICAN LITERATURE  
Three hours
Continuation of English 201. Intensive study of Whitman and Twain. Survey of realistic movement, the new poetry, and important twentieth century fiction and criticism. Textbooks, collateral reading, and reports.

207. LITERATURE OF THE ELIZABETHAN PERIOD  
Three hours
A survey of the poetic literature of the English renaissance, and an intensive study of the poems and plays of Shakespeare. Textbooks, collateral reading, and reports.

208. LITERATURE OF THE SEVENTEENTH CENTURY  
Three hours
A survey of the poetry and prose of the century, and an intensive study of the works of John Milton. Textbook, collateral reading, and reports.

210. LITERATURE OF THE EIGHTEENTH CENTURY  
Three hours
A study of English poetry and prose from Dryden through Burns. Emphasis upon the neo-classicists: Dryden, Pope, Addison, Swift, and Johnson, and a study of the beginnings of the romantic outlook in Gray, Thomson, and Cowper. Textbook, collateral reading, and reports.

301. LITERATURE OF THE ROMANTIC PERIOD  
Three hours
Intensive critical analysis of the work of Wordsworth, Coleridge, Byron, Keats, and Shelley, and a survey of other English poets writing in the years 1798-1830. Textbooks and critical papers.

302. POETRY OF THE VICTORIAN PERIOD  
Three hours
Intensive critical analysis of the work of Tennyson, Browning, and Arnold seen in relation to relevant cultural influences; a survey of the Pre-Raphaelite Movement; and consideration of the principal poems of Swinburne and Meredith. Textbook, and brief course papers.

303. CONTEMPORARY ENGLISH FICTION  
Three hours
A study of English and American fiction, in its continental relations, from 1890 to the present time. Textbooks and reports.

304. CONTEMPORARY ENGLISH POETRY  
Three hours
A study of the lyric and dramatic poetry of England, in its continental relations, from 1890 to the present time. Textbook, collateral reading, and reports.

306. ADVANCED COMPOSITION  
Three hours
A practical course in the writing of such types of composition as the formal and informal essay, the informative and feature article, the editorial and book review, the short story, lyric poem, and the like. Some collateral reading and much student writing. Open, by permission only, to students who have ability or unusual interest in creative writing.

307. POETRY AND PROSE OF THE SEVENTEENTH CENTURY  
Three hours
A study of important poetry and prose in England from Donne to Dryden with particular emphasis upon the poetry of Donne, Herbert, Vaughan, Tbrahim, and Herrick, and upon the prose of Donne, Browne, and Taylor. Textbooks and a critical report.

310. NINETEENTH CENTURY ENGLISH PROSE  
Three hours
An intensive study of such representative English prose of the nineteenth century, exclusively of fiction, as the works of Carlyle, Ruskin, Arnold, Huxley, Mill, Newman, Pater, Stevenson, and others. Textbook and reports.
312. THE ENGLISH NOVEL

A survey of the English novel from the beginning through Hardy. Emphasis upon the art and thought of the major novelists with special attention to the development of differing techniques and schools of fiction. Textbook, collateral reading, and reports.

313. CHAUCER

A study of the General Prologue, representative Canterbury Tales, and Troilus and Criseyde. Emphasis will fall upon Chaucer's literary genius and the reflection in his work of the major cultural phenomena of his time. Collateral reading.

315. THE PRINCIPLES OF LITERARY CRITICISM


330m. METHODS OF TEACHING ENGLISH

Attention is given the terms and standards of literary criticism, the merits and inadequacies of representative high school English textbooks, and acceptable methods of teaching composition and the various literary forms. The student must give evidence of having achieved on his own a mastery of the essentials of grammar.

French

101. ELEMENTARY FRENCH

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. CONTINUATION OF 101

Text in both courses: Micks & Longi, Fundamental French. This is followed by the reading of easy prose.

201. INTERMEDIATE FRENCH

Reading of about two hundred pages of easy nineteenth century text. Special stress on idiom. Composition based on the text read. Prerequisite: 101 and 102.

202. CONTINUATION OF 201

Reading of about three hundred pages of modern prose. Composition and thorough review of grammar throughout the year. About seven hundred pages of outside reading is required for the year.

301. THE ROMANTIC MOVEMENT


302. NINETEENTH CENTURY — SECOND HALF


303. THE CLASSIC PERIOD

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.

German

304. THE CLASSIC PERIOD

A continuation of 303, dealing with the later seventeenth century literature, with special attention to Moliere and Racine. A drama of Racine is read in class. A few dramas are assigned for outside reading. Anthology in both courses: Schinz and King's Seventeenth Century Readings. Prerequisite: 202 and 303.

330m. METHODS OF TEACHING MODERN FRENCH LANGUAGE

Intended for prospective teachers of French in secondary schools. Prerequisite: six of the courses offered in this department.

Geography

104. ECONOMIC GEOGRAPHY

For description see Economics and Sociology.

105. GEOGRAPHY OF NORTH AMERICA

A survey of the elements of the natural environment of the major regions of the United States and Canada in their relationship to the cultural landscape. Intended for those specializing in education or in the social sciences.

106. GEOGRAPHY OF SOUTH AMERICA

A study of the geographic structure of South America in relation to human adjustment and culture. Intended for those specializing in education or in the social sciences.

107. GEOGRAPHY OF THE FAR EAST AND THE PACIFIC AREA

A study of the geographic and historical background of India, China, Japan, Soviet Asia, Australia, and minor areas of the Far East and the Pacific. The course also deals with the geographic aspects of certain problems dealing with industry, agriculture, and population. Not offered in 1961-62.

109. GEOGRAPHY OF THE CARIBBEAN AREA

A study of the geographic and historic background of this area. The course deals with the geographic aspects of certain problems related to industry, agriculture, and population.

318. TEACHING GEOGRAPHY IN ELEMENTARY SCHOOLS

This course may be counted as credit in Geography toward an A.B. degree in Education except in cases in which it is the student's only course in teaching methods. This course not only includes a course in methods, but also one hour of content dealing with the Pacific area.

German

101. ELEMENTARY GERMAN

Grammar and composition. Text: Vos, Essentials of German

102. CONTINUATION OF 101

Study of grammar continued. Reading of at least one hundred pages of modern prose and poetry.

201. INTERMEDIATE GERMAN

Reading of nineteenth century prose. Review of the more important parts of grammar. Composition and dictation. Prerequisite: 101 and 102.

202. INTERMEDIATE GERMAN CONTINUED

Intensive study of modern prose and poetry. By stress upon idiom and otherwise, effort is made throughout the year to create Sprachgefühl. Outside reading with reports required to the extent of at least eight hundred pages for the year. Prerequisite: 201.
312. **The English Novel**  
Three hours  
A survey of the English novel from the beginning through Hardy. Emphasis upon the art and thought of the major novelists, with special attention to the development of differing techniques and schools of fiction. Textbook, collateral reading, and reports.

313. **Chaucer**  
Three hours  
A study of the General Prologue, representative Canterbury Tales, and Troilus and Criseyde. Emphasis will fall upon Chaucer's literary genius and the reflection in his work of the major cultural phenomena of his time. Collateral reading.

315. **The Principles of Literary Criticism**  
Three hours  

330m. **Methods of Teaching English**  
Three hours  
Attention is given to the terms and standards of literary criticism, the merits and inadequacies of representative high school English textbooks, and acceptable methods of teaching composition and the various literary forms. The student must give evidence of having achieved on his own a mastery of the essentials of grammar.

**French**

101. **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. **Continuation of 101**  
Four hours  
Text in both courses: Micks & Longi, *Fundamental French*. This is followed by the reading of easy prose.

201. **Intermediate French**  
Three hours  
Reading of about two hundred pages of easy nineteenth century text. Special stress on idiom. Composition based on the text read. Prerequisite: 101 and 102.

202. **Continuation of 201**  
Three hours  
Reading of about three hundred pages of modern prose. Composition and thorough review of grammar throughout the year. About seven hundred pages of outside reading is required for the year.

301. **The Romantic Movement**  
Three hours  

302. **Nineteenth Century — Second Half**  
Three hours  

303. **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.

**German**

304. **The Classic Period**  
Three hours  
A continuation of 303, dealing with the later seventeenth century literature, with special attention to Moliere and Racine. A drama of Racine is read in class. A few dramas are assigned for outside reading. Anthology in both courses: Schinz and King's *Seventeenth Century Readings*. Prerequisite: 202 and 303.

330m. **Methods of Teaching Modern French Language**  
One hour  
Intended for prospective teachers of French in secondary schools. Prerequisite: six of the courses offered in this department.

**Geography**

104. **Economic Geography**  
Three hours  
For description see Economics and Sociology.

105. **Geography of North America**  
Three hours  
A survey of the elements of the natural environment of the major regions of the United States and Canada in their relationship to the cultural landscape. Intended for those specializing in education or in the social sciences.

106. **Geography of South America**  
Three hours  
A study of the geographic structure of South America in relation to human adjustment and culture. Intended for those specializing in education or in the social sciences.

107. **Geography of the Far East and the Pacific Area**  
Three hours  
A study of the geographic and historical background of India, China, Japan, Soviet Asia, Australia, and minor areas of the Far East and the Pacific. The course also deals with the geographic aspects of certain problems dealing with industry, agriculture, and population. Not offered in 1951-52.

109. **Geography of the Caribbean Area**  
Three hours  
A study of the geographic and historic background of this area. The course deals with the geographic aspects of certain problems related to industry, agriculture, and population.

318. **Teaching Geography in Elementary Schools**  
Three hours  
This course may be counted as credit in Geography toward an A.B. degree in Education except in cases in which it is the student's only course in teaching methods. This course does not include a course in methods, but also one hour of content dealing with the Pacific area.

**German**

101. **Elementary German**  
Four hours  

102. **Continuation of 101**  
Four hours  
Study of grammar continued. Reading of at least one hundred pages of modern prose and poetry.

201. **Intermediate German**  
Three hours  
Reading of nineteenth century prose. Review of the more important parts of grammar. Composition and dictation. Prerequisite: 101 and 102.

202. **Intermediate German Continued**  
Three hours  
Intensive study of modern prose and poetry. By stress upon idiom and on the other hand, effort is made throughout the year to create *Sprachgefuhl*. Outside reading with reports required to the extent of at least eight hundred pages for the year. Prerequisite: 201.
301. THE ROMANTIC PERIOD

Three hours

302. REALISM

Three hours

303. EARLY NINETEENTH CENTURY DRAMA

Three hours

304. LATER NINETEENTH CENTURY DRAMA

Three hours

305. 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 is read in class. Collateral reading and reports. Prerequisite: 202.

306. THE CLASSIC DRAMA

Three hours
A study of the lives and works of Schiller and Goethe. One or two of their plays are read. Reports on assigned topics. Prerequisite: 202 and 305.

320. SCIENTIFIC GERMAN

One hour
Students wishing to take this course should confer with the professor in charge at the opening of the school year.

330m. METHODS OF TEACHING MODERN FOREIGN LANGUAGES

One hour
Intended for prospective teachers in German in secondary schools. Prerequisite: six of the courses offered in this department.

Greeks

Students who expect to graduate from the pre-Seminary Course must complete Courses 101, 102, 201, 202, 318, 314.

101. BEGINNERS' GREEK

Four hours
Text: Crosby and Schaeffer, *An Introduction to Greek.*

102. BEGINNERS' GREEK

Four hours
Continuation of 101. Completion of the text and the reading of the first half of Xenophon *Anabasis,* or its equivalent.

201. XENOPHON

Three hours
Selections from the *Anabasis.* Prerequisite: 101 and 102.

202. SELECTIONS FROM PLATO

Three hours
Prerequisite: 201.

311. GREEK HISTORY

Three hours
The political, social and cultural history of the Greek city-states up to the death of Alexander. Some attention is also given to the history of the Near and the Middle East.

313. NEW TESTAMENT GREEK

Three hours
The Gospel according to Mark is read. A study is made of the special features of Hellenistic Greek. The significance of lexical and syntactical detail for the interpretation of the text is everywhere emphasized. Prerequisite: for pre-Seminary students, 202; others, 102.

314. NEW TESTAMENT GREEK

Three hours
A study is made of some of the Pauline Epistles. Lectures and discussion on St. Paul and his times. Prerequisite: 313.

316. GREEK THOUGHT AND THE NEW TESTAMENT

Three hours
No knowledge of Greek is required. Lectures, discussions, assigned readings. Open to Juniors and Seniors.

317. PLATO'S REPUBLIC

Two hours
No knowledge of Greek is required. The course aims at an understanding and evaluation of Plato's views as presented especially in the Republic. Open to Sophomores, Juniors, and Seniors.

History

Those majoring in History must have had courses 101 and 102 or their equivalent in high school. In addition, 24 hours must be completed, with six (6) hours of credit in each of four (4) chosen fields. The fields of choice are: Ancient History, Medieval History, English History, Modern Europe, United States and Latin America, Eastern Europe. One of these four fields must be in American History.

Students are urged to consult with the head of the department early in their college career regarding their major program of History.

101. GROWTH OF WESTERN CIVILIZATION

Three hours
This course aims to give the student a comprehensive view of the history of civilization from earliest times to 1200 A.D. Required of all students taking the General College Course and of all Pre-Seminary students.

102. GROWTH OF WESTERN CIVILIZATION

Three hours
A continuation of Course 101. Particular attention is given to the various movements which have been significant in the development of western civilization to the present day.

201. EASTERN EUROPE SINCE 1815

Three hours
Russia from 1815 to the near present. Lectures, readings, and reports. Prerequisites: 101 and 102. For Sophomores and Juniors.

202. EASTERN EUROPE SINCE 1815

Three hours
The Balkan States, Austria, Hungary, and Czecho-Slovakia. Lectures, readings, and reports. Prerequisites: same as 201.

203. ENGLISH HISTORY TO 1600

Three hours
An outline of the political and constitutional history of England. Prerequisites: 101 and 102. For Sophomores and Juniors.

204. ENGLISH HISTORY 1600 TO 1650

Three hours
Continuation of 203, which is prerequisite.

205. 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.

206. EUROPE SINCE 1815

Three hours
A continuation of 205, which is prerequisite. Courses 205 and 206 are for Freshmen; open to Sophomores by special arrangement.

207. AMERICAN HISTORY FOR TEACHERS

Three hours
This course is designed to meet the requirement in American History for prospective teachers. Open only to those students taking the two-year Teacher Training Course.
314. NEW TESTAMENT GREEK
A study is made of some of the Pauline Epistles. Lectures and discussion on St. Paul and his times. Prerequisite: 313.

316. GREEK THOUGHT AND THE NEW TESTAMENT
No knowledge of Greek is required. Lectures, discussions, assigned readings. Open to Juniors and Seniors.

317. PLATO'S REPUBLIC
No knowledge of Greek is required. The course aims at an understanding and evaluation of Plato's views as presented especially in the Republic. Open to Sophomores, Juniors, and Seniors.

History
Those majoring in History must have had courses 101 and 102 or their equivalent in high school. In addition, 24 hours must be completed, with six (6) hours of credit in each of four (4) chosen fields. The fields of choice are: Ancient History, Medieval History, English History, Modern Europe, United States and Latin America, Eastern Europe. One of these four fields must be in American History. Students are urged to consult with the head of the department early in their college career regarding their major program of History.

101. GROWTH OF WESTERN CIVILIZATION
Three hours
This course aims to give the student a comprehensive view of the history of civilization from earliest times to 1200 A.D. Required of all students taking the General College Course and of all Pre-Seminary students.

102. GROWTH OF WESTERN CIVILIZATION
Three hours
A continuation of Course 101. Particular attention is given to the great movements which have been significant in the development of western civilization to the present day.

201. EASTERN EUROPE SINCE 1815
Three hours
Russia from 1815 to the near present. Lectures, readings, and reports. Prerequisites: 101 and 102. For Sophomores and Juniors.

202. EASTERN EUROPE SINCE 1815
Three hours
The Balkan States, Austria, Hungary, and Czechoslovakia. Lectures, readings, and reports. Prerequisites: same as 201.

203. ENGLISH HISTORY TO 1600
Three hours
An outline of the political and constitutional history of England. Prerequisites: 101 and 102. For Sophomores and Juniors.

204. ENGLISH HISTORY 1600 TO 1650
Three hours
Continuation of 203, which is prerequisite.

205. 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.

206. EUROPE SINCE 1815
Three hours
A continuation of 205, which is prerequisite. Courses 205 and 206 are for Freshmen; open to Sophomores by special arrangement.

207. AMERICAN HISTORY FOR TEACHERS
Three hours
This course is designed to meet the requirement in American History for prospective teachers. Open only to those students taking the two-year Teacher Training Course.
312. ROMAN HISTORY  Three hours
The history of Rome from the foundation of the city to A. D. 476. The emphasis falls on the development of the constitution and its effect upon, and how in turn it was affected by the expansion of Rome over the Mediterranean. Economic, social and literary history studied in its relation to the political.

321. ROMAN CULTURE  Three hours
Requires no knowledge of the Latin language. The emphasis falls on the development of the constitution, the growth of private law, and the status of education, religion, and philosophy in the Roman world. Not offered in 1951-1952.

322. LATIN LITERATURE IN ENGLISH  Three hours
No knowledge of Latin is required. The masterpieces of Latin literature are presented through the medium of English translations. Some attention is given to the influence which Latin writers have had upon the literatures of subsequent ages. Not offered in 1951-1952.

327. LATIN GRAMMAR AND WRITING  Two hours
In this course a thorough review of Latin grammar and syntax will be made, and attention will be given to Latin writing.

330m. TEACHERS’ COURSE  Two hours
This course is required of all students who expect to teach Latin, and who seek to obtain a State Teachers’ Certificate. In this course study will be made of the problems and methods of teaching secondary Latin. Prerequisite: 18 hours of Latin in College.

Mathematics

Students who wish to major in Mathematics should take Math. 101 and Math. 102 in high school. Ten hours of Calculus is the basic requirement for a major in Mathematics.

101. ADVANCED ALGEBRA  Three hours
For those who have had only one year of algebra in high school.

102. SOLID GEOMETRY  Three hours
Prerequisite: 101 and plane geometry.

103. COLLEGE ALGEBRA  Three hours
Prerequisite: 101.

104. PLANE TRIGONOMETRY  Three hours
Prerequisite: 101 and 103. Students taking the Pre-Medical course may be admitted if they have had Course 101.

108. POLYNOMIAL EQUATIONS AND INEQUALITIES
Prerequisite: 108 and 194.

201. PLANE ANALYTICAL GEOMETRY  Three hours
Prerequisite: 108 and 104.

202. CONTINUATION OF 201  Three hours
Plane analytical geometry completed. Introduction to solid analytical geometry.

203. SPHERICAL TRIGONOMETRY  Two hours
Prerequisite: 102 and 104.

205. BUSINESS MATHEMATICS  Three hours
Required for all students of Business Administration. Prerequisite: Math. 101.

Music

206. STATISTICS  Three or four hours
Emphasis on statistical methods. Prerequisite: 101; 103 and 104 are highly desirable.

301. DIFFERENTIAL CALCULUS  Five hours
Prerequisite: 201 and 202.

302. INTEGRAL CALCULUS  Five hours
Integral calculus and introduction to differential equations. Prerequisite: 301.

304. DIFFERENTIAL EQUATIONS  Two or three hours
Prerequisite: 301 and 302.

305. THEORY OF EQUATIONS  Two or three hours
Prerequisite: 301 and 302.

309. ASTRONOMY — DESCRIPTIVE  Two hours
A study of the solar system, the sidereal universe, and the theory of evolution.

330m. TEACHERS’ COURSE  One hour
Discussion of methods of teaching mathematics in secondary schools. Twenty hours of observation work are required.

Music

(See also p. 50)

APPLIED MUSIC REQUIREMENTS

Requirements for Concentrates in Applied Music

I. Concentrates in Piano
Before a student may be accepted as a concentrate in applied music (piano), he must take the general piano sight reading and technical examination listed above. In his repertoire he should have included some of the standard etudes, such as Czerny, Op. 299, Book I; Heller, Op. 46 or 47; Bach, Two-part Invention, and compositions which correspond in difficulty:

- Haydn, Sonata No. 11, G major No. 20 (Shirmer);
- Mozart, Sonata C major No. 3 or F major, No. 13 (Schirmer);
- Schubert, Impromptu Op. 142, No. 2, etc.

By the end of the second year of study in college, the student should have sufficient technique to play scales and arpeggios in rapid tempo, scales in parallel and contrary motion, in thirds and sixths and in various rhythms. His repertoire should include works of at least the following grades of difficulty:

- Bach, Three-part Inventions and French Suites;
- Beethoven, Sonatas or movements from Sonatas such as Op. 2, No. 1; Op. 14, Nos. 1 and 2, etc.
- Mozart, Sonatas No. 1, F major, or 16, A major (Schirmer Ed.);
- Mendelssohn, Songs Without Words;
- Liszt, “Liebestraum”, or transcriptions such as “On Wings of Song”;
- Schubert, Impromptu in B flat;
- Chopin, Polonaise C sharp minor, Valse E minor, Nocturne Op. 9, No. 2;
- Schumann, Nocturne F major, Novelette F major;

Some compositions by standard modern composers of corresponding difficulty.
312. ROMAN HISTORY
Three hours
The history of Rome from the foundation of the city to A. D. 476. The emphasis falls on the development of the constitution and its effect upon, and how in turn it was affected by, the expansion of Rome over the Mediterranean. Economic, social and literary history studied in its relation to the political.

321. ROMAN CULTURE
Three hours
Requires no knowledge of the Latin language. The emphasis falls on the development of the constitution, the growth of private law, and the status of education, religion, and philosophy in the Roman world. Not offered in 1951-1952.

322. LATIN LITERATURE IN ENGLISH
Three hours
No knowledge of Latin is required. The masterpieces of Latin literature are presented through the medium of English translations. Some attention is given to the influence which Latin writers have had upon the literatures of subsequent ages. Not offered in 1951-1952.

327. LATIN GRAMMAR AND WRITING
Two hours
In this course a thorough review of Latin grammar and syntax will be made, and attention will be given to Latin writing. This course and 330m may be offered as a three-hour methods course in the department of Education. Same as Education 328. Not offered in 1951-1952.

330m. TEACHERS' COURSE
Two hours
This course is required of all students who expect to teach Latin, and who seek to obtain a State Teachers' Certificate. In this course study will be made of the problems and methods of teaching secondary Latin. Prerequisite: 18 hours of Latin in College.

Mathematics
Students who wish to major in Mathematics should take Math. 101 and Math. 102 in high school. Ten hours of Calculus is the basic requirement for a major in Mathematics.

101. ADVANCED ALGEBRA
Three hours
For those who have had only one year of algebra in high school.

102. SOLID GEOMETRY
Three hours
Prerequisite: 101 and plane geometry.

103. COLLEGE ALGEBRA
Three hours
Prerequisite: 101.

104. PLANE TRIGONOMETRY
Three hours
Prerequisite: 101 and 103. Students taking the Pre-Medical course may be admitted if they have had Course 101.

201. PLANE ANALYTICAL GEOMETRY
Three hours
Prerequisite: 108 and 104.

202. CONTINUATION OF 201
Three hours
Plane analytical geometry completed. Introduction to solid analytical geometry.

203. SPHERICAL TRIGONOMETRY
Two hours
Prerequisite: 102 and 104.

205. BUSINESS MATHEMATICS
Three hours
Required for all students of Business Administration. Prerequisite: Math. 101.

Music

206. STATISTICS
Three or four hours
Emphasis on statistical methods. Prerequisite: 101; 103 and 104 are highly desirable.

For Business Administration Students 205, or its equivalent, is a prerequisite.

301. DIFFERENTIAL CALCULUS
Five hours
Prerequisite: 201 and 202.

302. INTEGRAL CALCULUS
Five hours
Integral calculus and introduction to differential equations. Prerequisite: 301.

304. DIFFERENTIAL EQUATIONS
Two or three hours
Prerequisite: 301 and 302.

305. THEORY OF EQUATIONS
Two or three hours
Prerequisite: 301 and 302.

309. ASTRONOMY—DESCRIPTIVE
Two hours
A study of the solar system, the sidereal universe, and the theory of evolution.

330m. TEACHERS' COURSE
One hour
Discussion of methods of teaching mathematics in secondary schools. Twenty hours of observation work are required.

Music
(See also p. 50)

APPLIED MUSIC REQUIREMENTS

REQUIREMENTS FOR CONCENTRATES IN APPLIED MUSIC

I. Concentrates in Piano
Before a student may be accepted as a concentrate in applied music (piano), he must take the general piano sight reading and technical examination listed above. In his repertoire he should have included some of the standard etudes, such as Czerny, Op. 299, Book I; Heller, Op. 46 or 47; Bach, Two-part Invention, and compositions which correspond in difficulty to:

Haydn, Sonata No. 11, G major No. 20 (Schirmer);
Mozart, Sonata C major No. 3 or F major, No. 13 (Schirmer);
Schubert, Impromptu Op. 142, No. 2, etc.

By the end of the second year of study in college, the student should have sufficient technique to play scales and arpeggios in rapid tempo, scales in parallel and contrary motion, in thirds and sixths and in various rhythms. His repertoire should include works of at least the following grades of difficulty:

Bach, Three-part Inventions and French Suites;
Beethoven, Sonatas or movements from Sonatas such as Op. 2, No. 1; Op. 14, Nos. 1 and 2, etc.
Mozart, Sonatas No. 1, F major, or 16, A major (Schirmer Ed.);
Mendelssohn, Songs Without Words;
Liszt, "Liebestraum", or transcriptions such as "On Wings of Song";
Schubert, Impromptu in B flat;
Chopin, Polonaise C sharp minor, Valse E minor, Nocturne Op. 9, No. 2;
Schumann, Nocturne F major, Novellete F major;
Some compositions by standard modern composers of corresponding difficulty.
Music

108. THEORY AND HARMONY  
Three hours  
The elements of music: tonality, notation, rhythm. A coordinated study of harmony through the ear, eye, and keyboard. Writing and harmonization of hymn tunes and chorales, sight-singing, dictation using primary and dominant seventh chords. One hour laboratory period per week required.

104. THEORY AND HARMONY  
Continuation of 103.

208. THEORY AND HARMONY, ADVANCED  
Three hours  
Continuation of 105-104. Use of all diatonic triads and seventh chords, altered chords, color chords. Problems of composition involving smaller forms. Continuation of sight-singing and dictation. One hour laboratory period per week required.

204. THEORY AND HARMONY, ADVANCED  
Continuation of 203.

303. COUNTERPOINT, CANON AND FUGUE  
Three hours  
The principles of contrapuntal composition, including a study of species counterpoint and a detailed analysis of Palestrinian counterpoint.

304. COUNTERPOINT, CANON AND FUGUE  
Continuation of 303.

315. ARRANGING AND CONDUCTING  
Three hours  
The problems involved in writing for orchestra, band, and choir. A survey of the technical limitations of each instrument and of the human voice. Arrangements written by class members will be performed by student organizations whenever practical. One class period per week will be devoted to conducting, using class ensemble and recordings. Prerequisite: Music 108-104.

NOTE: Students wishing to study conducting only may register for Music 315A after receiving permission of the instructor. One hour per week, one hour credit.

316. ARRANGING AND CONDUCTING  
Continuation of 315.

HISTORY AND LITERATURE

211. INTRODUCTION TO MUSIC LITERATURE (MUSIC APPRECIATION)  
Three hours  
General course designed to develop intelligent discrimination in the listener. Structural principles and aesthetic content of music with reference to the various forms and styles will be considered. The course is planned to give a general idea of the entire realm of music and is intended alike for the technical musician and those who wish to become merely intelligent listeners.

212. MUSIC LITERATURE  
Continuation of 211.

219. CHURCH MUSIC  
Two hours  
The history and practice of worship music from the Hebrews and early Christians to the present. The development of Church chant, the Lutheran chorale and the Genevan Dutch psalm-tunes. Hymnody in Germany, England and America. The principles of sound worship music and a study of the literature for organ, choir and congregation. Opportunity to conduct hymns and anthems before the class.

220. CHURCH MUSIC  
Continuation of 219.
By the end of the fourth year of study, the student must have a repertoire comprising the principal classic, romantic and modern compositions which should include such works as:

- Bach, Chromatic Fantasia and Fugue, toccatas, organ transcriptions by Busoni, Tausig, Liszt, D'Albert; 
- Beethoven, later Sonatas such as Op. 53, 57 and a Concerto; 
- Brahms, Rhapsody B minor, Sonata F minor; 
- Chopin, Ballades, Polonaises, Scherzi, and a Concerto; 
- Liszt, Rhapsodies, Paganini Etudes, a Concerto; 
- Schumann, Carneval, Concerto; 
- Compositions by standard American and foreign modern composers such as MacDowell, Grieg, Rubinstein, Moszkowski, Debussy, Ravel, Rachmaninoff, and others.

II. Concentrates in Voice.

Before a student may be accepted as a concentrate in voice, he must be able to sing on pitch with correct phrasing and musical intelligence, standard songs in good English. He should also demonstrate his ability to read a simple song at sight and a knowledge of the rudiments of music. Some knowledge of piano is urgently recommended, and voice students are urged to satisfy the piano sight reading requirement as soon as possible.

III. Concentrates in Organ.

Before a student may be accepted as a concentrate in organ, he should have completed sufficient piano study to perform some Bach Inventions, Mozart Sonatas, easier Beethoven Sonatas, compositions by Mendelssohn, Grieg, etc.

At the end of the second year of study, the student's organ repertoire should include the following compositions or works of comparable difficulty:

- Volume II, No. 17, Fugue in G minor. 
- Selections from the Liturgical Year Chorales. 
- Mendelssohn, Sonatas No. II, IV, V. 
- Guilmant, Sonata No. IV.

Compositions for the modern organ by standard American and foreign composers.

At the end of the fourth year, the student should demonstrate the ability to transpose, improvise, modulate and sight read. He should have a large repertoire of organ literature of all schools, classic and modern, of the degree of difficulty comparable to the following:

- Bach, Vol. IV (Schirmer), No. 4, Fantasia and Fugue, G minor; 
- Vol. IV, No. 7, Prelude and Fugue, B minor; 
- Vol. II, No. 12, Prelude and Fugue, D major; 
- Book V, Sonatas; 
- Franck, Chorales, Piec Heroique; 
- Widor, Symphony, No. V; 
- Guilmant, Sonata D minor, No. 1; 
- Vierne, Symphony No. 1.

Compositions for modern organ of same grade of difficulty by standard American and foreign composers.

In addition to the above suggested repertoire, the student should reveal an understanding of the place of the organ in the service of the Calvinist churches and should be able to demonstrate ability in sight reading solo and choral accompaniments.

Students desiring of studying other instruments under the Applied Music concentrate program should consult the Music Department requirements for such work.

The above applied music requirements conform to the standards set up by the National Association of Schools of Music in 1947.

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**Music**

**Theory**

108. **Theory and Harmony**

Three hours

The elements of music: tonality, notation, rhythm. A coordinated study of harmony through the ear, eye, and keyboard. Writing and harmonization of hymn tunes and chorales, sight-singing, dictation using primary and dominant seventh chords. One hour laboratory period per week required.

104. **Theory and Harmony**

Continuation of 103.

208. **Theory and Harmony, Advanced**

Three hours

Continuation of 108-104. Use of all diatonic triads and seventh chords, altered chords, color chords. Problems of composition involving smaller forms. Continuation of sight-singing and dictation. One hour laboratory period per week required.

204. **Theory and Harmony, Advanced**

Continuation of 203.

308. **Counterpoint, Canon and Fugue**

Three hours

The principles of contrapuntal composition, including a study of species counterpoint and a detailed analysis of Palestinian counterpoint.

304. **Counterpoint, Canon and Fugue**

Continuation of 303.

315. **Arranging and Conducting**

Three hours

The problems involved in writing for orchestra, band, and choir. A survey of the technical limitations of each instrument and of the human voice. Arrangements written by class members will be performed by student organizations whenever practical. One class period per week will be devoted to conducting, using class ensemble and recordings. Prerequisite: Music 103-104.

Note: Students wishing to study conducting only may register for Music 315A after receiving permission of the instructor. One hour per week, one hour credit.

316. **Arranging and Conducting**

Continuation of 315.

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**History and Literature**

211. **Introduction to Music Literature (Music Appreciation)**

Three hours

General course designed to develop intelligent discrimination in the listener. Structural principles and aesthetic content of music with reference to the various forms and styles will be considered. The course is planned to give a general idea of the entire realm of music and is intended alike for the technical musician and those who wish to become merely intelligent listeners.

212. **Music Literature**

Continuation of 211.

219. **Church Music**

Two hours

The history and practice of worship music from the Hebrews and early Christians to the present. The development of Church chant, the Lutheran chorale and the Genevan Dutch psalm-tunes. Hymnody in Germany, England and America. The principles of sound worship music and a study of the literature for organ, choir and congregation. Opportunity to conduct hymns and anthems before the class.

220. **Church Music**

Continuation of 219.
305. **History of Music**  
*Three hours*  
The development of the art of music from the earliest times to the present. Oratorio and church music, the opera, songs, and instrumental music. Biographies of comers. Representative compositions of each main period presented in class. Lectures, collateral reading, term papers, and text-book work.

306. **History of Music**  
*Three hours*  
Continuation of 305.

307. **Form**  
*Two hours*  
A study of the development of musical forms, beginning with the plain-song, masses, metes, madrigals, and continuing through early orchestral and instrumental compositions. The relationship of musical form to problems of tonality, rhythm, unity and variety.

308. **Form**  
*Two hours*  
Continuation of 307.

311. **Symphonic Literature**  
*Three hours*  
A study of the development of the Symphony from the early sonatas, suites, and overtures, through to the modern symphony.

312. **Symphonic Literature**  
*Three hours*  
Continuation of 311. This second semester will be devoted primarily to the symphonic poem.

**MUSIC EDUCATION**

222. **Elementary School Music**  
*Three hours*  
Methods of teaching vocal music in the elementary grades, including the teaching of rote songs, tone-production, rhythm bands, music-reading, and a study and evaluation of music materials.

331. **School Music Methods I**  
*Three hours*  
A study and evaluation of vocal materials and methods for the elementary grades. A more intensive course than Music 222 for the music major who intends to teach grade school music. Prerequisite: Music Theory 103 or its equivalent. No credit for a student who has credit for Music 222.

332. **School Music Methods II**  
*Three hours*  
A study and evaluation of vocal methods and materials for the junior and senior high schools, embracing a study of the adolescent child, the changing voice, the music curriculum, the organization and maintenance of vocal ensembles, including the high school choir. Primarily for music majors who plan to teach junior or senior high school music. Prerequisite: Music Theory 103 or its equivalent.

333. **Instrumental Methods I—Strings**  
*Three hours*  
Problems in the organization of a school instrumental program, beginning with the establishment of elementary school rhythm bands; principles of class instruction in violin, clarinet, and trumpet; evaluation of methods of class instruction; orchestra and band organization; repertoire.

334. **Instrumental Methods II—Woodwinds**  
*Three hours*  
Same description as 333.

**APPLIED MUSIC (Individual Lessons)**  
A maximum of 8 semester hours of credit in Applied Music will be allowed towards the Bachelor's Degree, except for Music Majors concentrating in Applied Music, in which case the maximum is 16 semester hours.

**Music**

117-118. **First Year Voice**  
*One hour*  
Classification of the voice, vocalizations for tone production. Simple Italian and old English classics to assist in tone production through articulation and diction. Easy oratorio arias. Fee, $30 per semester.

217-218. **Second Year Voice**  
*One hour*  
Continuation of technical studies for development of the necessary qualities of the individual voice. Additional Italian and English classics. German or French songs introduced. Additional recitatives and arias from oratorios. Fee, $30 per semester.

317-318. **Third Year Voice**  
*One hour*  
Study of songs with foreign text continued. Additional material from oratorios and selected material from the operatic repertoire. Technical studies likewise continued. Fee, $30 per semester.

327-328. **Fourth Year Voice**  
*One hour*  
Preparation of program for graduation recital, selected from repertoire acquired in previous grades; public recital; appearance with orchestra upon recommendation of the music faculty. Fee, $30 per semester.

109-110. **First Year Organ**  
*One hour*  
Individual lessons in organ. Prerequisite: three years of piano. Fee $50 per semester plus $10 per semester for the use of the organ.

209-210. **Second Year Organ**  
*One hour*  
Individual lessons in organ. Fee $50 per semester plus $10 per semester for the use of the organ.

309-310. **Third Year Organ**  
*One hour*  
Individual lessons in organ. Fee $50 per semester plus $10 per semester for the use of the organ.

**Piano**


**Violin**

*Note:* Arrangements will be made for additional private lessons in piano or other instruments for interested students.

**APPLIED MUSIC (Groups)**

101-102. **Oratorio Chorus**  
*No Credit*  
The study of representative works of the great masters of choral writing with a view to public performance. Händel's *Messiah* is rendered annually at Christmas time. Another oratorio is presented in the spring. Open to all who meet the requirements of voice and musicianship.

207-8. **A Cappella Choir**  
*One hour*  
Representative works in the field of choral literature are studied and a limited number of selections prepared for concert performance. Open only to those who meet the demands of voice and musicianship.
305. HISTORY OF MUSIC
Three hours
The development of the art of music from the earliest times to the present. Oratorio and church music, the opera, songs, and instrumental music. Biographies of composers. Representative compositions of each main period presented in class. Lectures, collateral reading, term papers, and text-book work.

306. HISTORY OF MUSIC
Continuation of 305.

Three hours

307. FORM
Two hours
A study of the development of musical forms, beginning with the plain-song, masses, motets, madrigals, and continuing through early orchestral and instrumental compositions. The relationship of musical form to problems of tonality, rhythm, unity and variety.

308. FORM
Continuation of 307.

Three hours

311. SYMPHONIC LITERATURE.
Three hours
A study of the development of the Symphony from the early sonatas, suites, and overtures, through to the modern symphony.

312. SYMPHONIC LITERATURE.
Continuation of 311. This second semester will be devoted primarily to the symphonic poem.

MUSIC EDUCATION
Three hours

222. ELEMENTARY SCHOOL MUSIC
Methods of teaching vocal music in the elementary grades, including the teaching of rote songs, tone-production, rhythm bands, music-reading, and a study and evaluation of music materials.

Three hours

331. SCHOOL MUSIC METHODS I
A study and evaluation of vocal materials and methods for the elementary grades. A more intensive course than Music 222 for the music major who intends to teach grade school music. Prerequisite: Music Theory 103 or its equivalent. No credit for a student who has credit for Music 222.

332. SCHOOL MUSIC METHODS II
A study and evaluation of vocal methods and materials for the junior and senior high schools, embracing a study of the adolescent child, the changing voice, the music curriculum, the organization and maintenance of vocal ensembles, including the high school choir. Primarily for music majors who plan to teach junior or senior high school music. Prerequisite: Music Theory 103 or its equivalent.

Three hours

333. INSTRUMENTAL METHODS I—Strings
Three hours
Problems in the organization of a school instrumental program, beginning with the establishment of elementary school rhythm bands; principles of class instruction in violin, clarinet, and trumpet; evaluation of methods of class instruction; orchestra and band organization; repertoire.

334. INSTRUMENTAL METHODS II—Woodwinds
Same description as 333.

Three hours

APPLIED MUSIC (Individual Lessons)
A maximum of 8 semester hours of credit in Applied Music will be allowed towards the Bachelor's Degree, except for Music Majors concentrating in Applied Music, in which case the maximum is 16 semester hours.

117-118. FIRST YEAR VOICE
Classification of the voice, vocalizations for tone production. Simple Italian and old English classics to assist in tone production through articulation and diction. Easy oratorio arias. Fee, $30 per semester.

Three hours

217-218. SECOND YEAR VOICE
Continuation of technical studies for development of the necessary qualities of the individual voice. Additional Italian and English classics. German or French songs introduced. Additional recitatives and arias from oratorios. Fee, $30 per semester.

Three hours

317-318. THIRD YEAR VOICE
Study of songs with foreign text continued. Additional material from oratorios and selected material from the operatic repertoire. Technical studies likewise continued. Fee, $30 per semester.

Three hours

327-328. FOURTH YEAR VOICE
Preparation of program for graduation recital, selected from repertoire acquired in previous grades; public recital; appearance with orchestra upon recommendation of the music faculty. Fee, $30 per semester.

Three hours

109-110. FIRST YEAR ORGAN
Individual lessons in organ. Prerequisite: three years of piano. Fee $30 per semester plus $10 per semester for the use of the organ.

Three hours

209-210. SECOND YEAR ORGAN
Individual lessons in organ. Fee $30 per semester plus $10 per semester for the use of the organ.

Three hours

309-310. THIRD YEAR ORGAN
Individual lessons in organ. Fee $30 per semester plus $10 per semester for the use of the organ.

Three hours

PIANO

Three hours

VIOLIN

Three hours

Note: Arrangements will be made for additional private lessons in piano or other instruments for interested students.

APPLIED MUSIC (Groups)

101-102. ORATORIO CHORUS
No Credit
The study of representative works of the great masters of choral writing with a view to public performance. Händel's Messiah is rendered annually at Christmas time. Another oratorio is presented in the spring.

Open to all who meet the requirements of voice and musicianship.

207-8. A CAPPELLA CHOIR
One hour
Representative works in the field of choral literature are studied and a limited number of selections prepared for concert performance. Open only to those who meet the demands of voice and musicianship.
213-214. Band
One hour
Representative works in the field of symphonic band literature are studied and prepared for concert performance. The repertoire is changed annually so that over a period of four years the standard works for symphonic band will have been performed. Open to all Calvin College students after consultation with the director. A limited number of instruments are available to students on loan from the Band library. Three rehearsals a week.

215-216. Orchestra
One hour
Representative works in the field of chamber orchestra and symphony orchestra are studied and prepared for concert performance. The repertoire is changed annually so that over a period of four years the standard works will have been studied. Open to all Calvin College students after consultation with the director. A limited number of instruments are available to students on loan from the Orchestra library. Two rehearsals a week.

Philosophy
Students who plan to major in Philosophy should, before the beginning of their junior year, confer with a member of the departmental staff.

ELEMENTARY COURSES
200. Logic
Three hours
A course in traditional and elementary symbolic logic. Offered each semester.

201. Perspectives
Three hours
An introduction to philosophy and its problems which emphasize the basic differences in philosophical orientation and perspective between naturalism, classic pagan idealism, modernity, and Christianity. Together with 202, intended primarily for students wishing to satisfy the six-hour Philosophy requirement for the A.B. Offered first semester only.

202. Perspectives
Three hours
Continuation of 201, but may be taken independently by qualified students. Offered second semester only.

203. Introduction
Three hours
A one-semester introduction to philosophy by way of a consideration of early Greek thought — Thales through Socrates. Offered first semester only.

301. History of Philosophy: Medieval
Three hours
Historical and critical study of the Christian philosophical synthesis from the beginnings of Christianity to the Renaissance. Special emphasis is given to Augustine and Thomas Aquinas. Offered each semester.

302. History of Philosophy: Modern
Three hours
Historical and critical study of the philosophical perspective of modernity. Renaissance through Kant. Offered each semester.

INTERMEDIATE COURSES
Intermediate courses normally presuppose three hours of Philosophy, but are open to all qualified juniors and seniors.

300. History of Philosophy: Ancient
Three hours
Historical and critical study of the philosophical question raised by the Greek and classic pagan mind, and of the implicit movement in the proffered solutions. — Plato through Plotinus. Offered each semester.

PHYSICAL EDUCATION

303. Philosophy of Science
Three hours
A study of the first principles underlying Greek, modern classical, and contemporary physical science. Illustrations and analogies will be confined to the history of relativity and thermodynamics. Offered first semester.

305. Ethics
Three hours
The study is systematic rather than historical. In the discussion of moral problems and their solution, emphasis is on the contrast between the "moral commonwealths" of ethical naturalism in its various forms, of classic pagan and modern idealism, and of Christianity. Offered first semester only.

ADVANCED COURSES
Advanced courses normally presuppose six hours of Philosophy, but are open to all qualified seniors.

350. Aristotle
Three hours
Advanced study of Aristotle and the chief of the Hellenistic thinkers. Offered first semester.

351. Kant
Three hours

352. The Philosophy of Thomas Aquinas
Three hours
A course in Thomistic thought based upon a critical analysis of the Summae. Prerequisite: 301. Offered second semester.

353. Plato
Three hours
Study of the later Platonic dialogues. Offered first semester.

356. Contemporary Philosophy
Three hours
History of the major philosophical movements in the last 100 years. Offered first semester.

364. Metaphysics
Three hours
Not offered 1951-1952.

Physical Education
Students desiring the degree of A.B. in Education may obtain a minor in this department. They should select twelve hours from the courses listed here; the remaining three hours they should select from the following: Biology 105 and 210.

103. Personal Hygiene: (Biol. 103)
Three hours
The proper care of our bodies and approved practices for the prevention of disease are studied.

104. History and Principles of Physical Education
Two hours
Traces the history of Physical Education from its early origin to present-day trends. Considers the relation of Physical Education to life and ideas. Acquaints the student with the profession of Physical Education.

203. Organization and Administration of Physical Education
Two hours
A study of the representative programs of Physical Education and evaluation of these programs.

204. Community Recreation
Two hours
A study of the development, administration, and use of leisure time within the community and of the community agencies organized to meet present-day recreational needs.

205. Coaching of Basketball
Two hours
A consideration of the fundamentals that make up the game of basketball; team conditioning, styles of play, and team strategy.
213-214. Band  One hour
Representative works in the field of symphonic band literature are studied and prepared for concert performance. The repertoire is changed annually so that over a period of four years the standard works for symphonic band will have been performed. Open to all Calvin College students after consultation with the director. A limited number of instruments are available to students on loan from the Band library. Three rehearsals a week.

215-216. Orchestra  One hour
Representative works in the field of chamber orchestra and symphony orchestra are studied and prepared for concert performance. The repertoire is changed annually so that over a period of four years the standard works will have been studied. Open to all Calvin College students after consultation with the director. A limited number of instruments are available to students on loan from the Orchestra library. Two rehearsals a week.

Philosophy
Students who plan to major in Philosophy should, before the beginning of their junior year, confer with a member of the departmental staff.

ELEMENTARY COURSES

200. Logic  Three hours
A course in traditional and elementary symbolic logic. Offered each semester.

201. Perspectives  Three hours
An introduction to philosophy and its problems which emphasize the basic differences in philosophical orientation and perspective between naturalism, classic pagan idealism, modernity, and Christianity. Together with 202, intended primarily for students wishing to satisfy the six-hour Philosophy requirement for the A.B. Offered first semester only.

202. Perspectives  Three hours
Continuation of 201, but may be taken independently by qualified students. Offered second semester only.

203. Introduction  Three hours
A one-semester introduction to philosophy by way of a consideration of early Greek thought—Thales through Socrates. Offered first semester only.

301. History of Philosophy: Medieval  Three hours
Historical and critical study of the Christian philosophical synthesis from the beginnings of Christianity to the Renaissance. Special emphasis is given to Augustine and Thomas Aquinas. Offered each semester.

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Historical and critical study of the philosophical perspective of modernity. Renaissance through Kant. Offered each semester.

INTERMEDIATE COURSES
Intermediate courses normally presuppose three hours of Philosophy, but are open to all qualified juniors and seniors.

300. History of Philosophy: Ancient  Three hours
Historical and critical study of the philosophical question raised by the Greek and classic pagan mind, and of the implicit movement in the proffered solutions.—Plato through Plotinus. Offered each semester.

PHYSICAL EDUCATION

303. Philosophy of Science   Three hours
A study of the first principles underlying Greek, modern classical, and contemporary physical science. Illustrations and analogies will be confined to the history of relativity and thermodynamics. Offered first semester.

305. Ethics   Three hours
The study is systematic rather than historical. In the discussion of moral problems and their solution, emphasis is on the contrast between the "moral commonwealths" of ethical naturalism in its various forms, of classic pagan and modern idealism, and of Christianity. Offered first semester only.

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355. Kant  Three hours

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A course in Thomistic thought based upon a critical analysis of the Summae. Prerequisite: 301. Offered second semester.

353. Plato  Three hours
Study of the later Platonic dialogues. Offered first semester.

362. Contemporary Philosophy  Three hours
History of the major philosophical movements in the last 100 years. Offered first semester.

364. Metaphysics  Three hours
Not offered 1951-1952.

Physical Education
Students desiring the degree of A.B. in Education may obtain a minor in this department. They should select twelve hours from the courses listed here; the remaining three hours they should select from the following: Biology 105 and 210.

103. Personal Hygiene  Three hours
The proper care of our bodies and approved practices for the prevention of disease are studied.

104. History and Principles of Physical Education  Two hours
Traces the history of Physical Education from its early origin to present-day trends. Considers the relation of Physical Education to life and ideas. Acquaints the student with the profession of Physical Education.

203. Organization and Administration of Physical Education  Two hours
A study of the representative programs of Physical Education and evaluation of these programs.

204. Community Recreation  Two hours
A study of the development, administration, and use of leisure time within the community and of the community agencies organized to meet present-day recreational needs.

205. Coaching of Basketball  Two hours
A consideration of the fundamentals that make up the game of basketball; team conditioning, styles of play, and team strategy.
206. Coaching of Spring Sports

Two hours

A study of the fundamentals of Track, Tennis, and Golf. Methods of teaching and coaching of these sports are also discussed.

SPECIAL PHYSICAL EDUCATION COURSES FOR GIRLS

221. Spring Sports for Girls

Three hours

A study of the background, fundamentals, and coaching methods of Tennis, Golf, Badminton, Archery, and Softball.

223. Teaching of Physical Education in Elementary Schools

Three hours

Theoretical and practical methods in the teaching of physical activities to children of the elementary grades.

Physics

101. Elementary Physics

Three hours

Mechanics, sound, and heat. Adapted to pre-nursing, medical technology students and normal students preparing to teach general science. Accompanied with demonstrations and several laboratory exercises.

102. Elementary Physics

Three hours

Magnetism, electricity, and light. Adapted to pre-nursing, medical technology students and normal students preparing to teach general science. Accompanied with demonstrations and several laboratory exercises.

201. General Physics

Four hours

Mechanics, sound, and heat. Adapted to pre-nursing, medical Three recitations and one two-to-three-hour laboratory period a week. Laboratory fee, $3.00.

202. General Physics

Four hours

Electricity and light. Continuation of 201. Three recitations and one two-to-three-hour laboratory period a week. Laboratory fee, $3.00.

201E. General Physics

Five hours

Mechanics, sound, and heat. (Required of all engineering students.) At least half the semester is devoted to elementary mechanics; the remainder of the time to sound and heat. Many experimental illustrations. Four recitations and one two-to-three-hour laboratory period a week. Prerequisite: plane trigonometry and a preparatory course in physics. Laboratory fee, $3.00.

202E. General Physics

Five hours

Electricity and light. (Required of all engineering students.) A continuation of 201E. It takes up the fundamental phenomena and laws of electricity and light with ample class illustrations. Four recitations, and one two-to-three-hour laboratory period a week. Laboratory fee, $3.00.

203. Physics Problem Course

One hour

Should be preceded by or accompany 201 or 201E. This course consists of the solution and discussion of problems in mechanics, sound, and heat. One recitation a week.

204. Physics Problem Course

One hour

A continuation of 203. One recitation a week.

POLITICAL SCIENCE

304. Modern Physics

Three hours

A study of physics beginning with the discovery of radioactivity, electricity, the nature of radiant energy, x-ray, atomic spectra. Discussion of subjects such as the atomic nature of matter and molecular structure and radioactivity. Prerequisite: Physics 202 or 202E.

305. Survey Course

Two hours

A non-mathematical presentation of the fields of physics accompanied with demonstrations. Those concentrating in science do not receive credit for this course. No prerequisite. Offered odd years.

Political Science

History 303 and History 304 (Foreign Relations) may be taken to satisfy requirements for a major in either History or Political Science, but they may not be used to satisfy requirements in both departments.

101. Government of Modern States

Three hours

The organization and operation of modern governments. Emphasis is placed on British and Continental European governments with a special regard for recent political developments in these countries. Lectures and collaterral reading.

102. Government of Modern States

Continuation of 101, which is prerequisite.

201. Principles of Political Science

Three hours

(Formerly Political Science 301—Introduction to Political Science.)

An analysis of problems dealt with in Political Science, including the origin, nature, and essential functions of the state; the nature of sovereignty and law; and relations of government to the individual. Lectures and collateral reading. Not open to freshmen.

202. Principles of Political Science

Three hours

Continuation of 201, which is prerequisite.

303. American National Government

Three hours

Basic principles and their practical application to the operation of the Federal government. The interpretation of the constitution by the various branches and departments of government, and the extension of government into the socio-economic field.

304. American National Government

Three hours

Continuation of 303, which is prerequisite.

Note: Foreign Relations. See History 303 and 304.

Psychology

201. Introductory Psychology

Three hours

A general course in psychology for beginners. This course is given during both semesters.

202. Educational Psychology

Three hours

Course 201, or its equivalent, is a prerequisite.

204. Child Psychology

Three hours

A study of the physical and mental development of the child. Course 201, or its equivalent, is a prerequisite.

209. Mental Hygiene

Two or three hours

A study of personal attitudes toward reality and the solution of maladjustment by means of integration.
206. Coaching of Spring Sports  Two hours  A study of the fundamentals of Track, Tennis, and Golf. Methods of teaching and coaching of these sports are also discussed.

SPECIAL PHYSICAL EDUCATION COURSES FOR GIRLS

221. Spring Sports for Girls  Three hours  A study of the background, fundamentals, and coaching methods of Tennis, Golf, Badminton, Archery, and Softball.

223. Teaching of Physical Education in Elementary Schools  Three hours  Theoretical and practical methods in the teaching of play activities to children of the elementary grades.

Physics

101. Elementary Physics  Three hours  Mechanics, sound, and heat. Adapted to pre-nursing, medical technology students and normal students preparing to teach general science. Accompanied with demonstrations and several laboratory exercises.

102. Elementary Physics  Three hours  Magnetism, electricity, and light. Adapted to pre-nursing, medical technology students and normal students preparing to teach general science. Accompanied with demonstrations and several laboratory exercises.

201. General Physics  Four hours  Mechanics, sound, and heat. Adapted to pre-nursing, medical Three recitations and one two-to-three-hour laboratory period a week. Laboratory fee, $3.00.

202. General Physics  Four hours  Electricity and light. Continuation of 201. Three recitations and one two-to-three-hour laboratory period a week. Laboratory fee, $3.00.

201E. General Physics  Five hours  Mechanics, sound, and heat. (Required of all engineering students.) At least half the semester is devoted to elementary mechanics; the remainder of the time to sound and heat. Many experimental illustrations. Four recitations and one two-to-three-hour laboratory period a week. Prerequisite: plane trigonometry and a preparatory course in physics. Laboratory fee, $3.00.

202E. General Physics  Five hours  Electricity and light. (Required of all engineering students.) A continuation of 201E. It takes up the fundamental phenomena and laws of electricity and light with ample class illustrations. Four recitations, and one two-to-three-hour laboratory period a week. Laboratory fee, $3.00.

203. Physics Problem Course  One hour  Should be preceded by or accompany 201 or 201E. This course consists of the solution and discussion of problems in mechanics, sound, and heat. One recitation a week.

204. Physics Problem Course  One hour  A continuation of 203. One recitation a week.

Political Science

304. Modern Physics  Three hours  A study of physics beginning with the discovery of radioactivity, electricity, the nature of radiant energy, x-ray, atomic spectra. Discussion of subjects such as the atomic nature of matter and molecular structure and radioactivity. Prerequisite: Physics 202 or 202E.

305. Survey Course  Two hours  A non-mathematical presentation of the fields of physics accompanied with demonstrations. Those concentrating in science do not receive credit for this course. No prerequisite. Offered odd years.

Political Science

History 203 and History 304 (Foreign Relations) may be taken to satisfy requirements for a major in either History or Political Science, but they may not be used to satisfy requirements in both departments.

101. Government of Modern States  Three hours  The organization and operation of modern governments. Emphasis is placed on British and Continental European governments with a special regard for recent political developments in these countries. Lectures and collateral reading.

102. Government of Modern States  Three hours  Continuation of 101, which is prerequisite.

201. Principles of Political Science  Three hours  (Formerly Political Science 301 — Introduction to Political Science.) An analysis of problems dealt with in Political Science, including the origin, nature, and essential functions of the state; the nature of sovereignty and law; and relations of government to the individual. Lectures and collateral reading. Not open to freshmen.

202. Principles of Political Science  Three hours  Continuation of 201, which is prerequisite.

303. American National Government  Three hours  Basic principles and their practical application to the operation of the Federal Constitution. The interpretation of the constitution by the various branches and departments of government, and the extension of government into the socio-economic field.

304. American National Government  Three hours  Continuation of 303, which is prerequisite.

Note: Foreign Relations. See History 303 and 304.

Psychology

201. Introductory Psychology  Three hours  A general course in psychology for beginners. This course is given during both semesters.

202. Educational Psychology  Three hours  Course 201, or its equivalent, is a prerequisite.

204. Child Psychology  Three hours  A study of the physical and mental development of the child. Course 201, or its equivalent, is a prerequisite.

209. Mental Hygiene  Two or three hours  A study of personal attitudes toward reality and the solution of maladjustment by means of integration.
208. COMMUNITY RECREATION (Phys. Ed. 204) Two hours
Especially for pre-social work students. Taught in Department of Physical Education.

210. SOCIAL PSYCHOLOGY (Psych. 210) Three hours
This course is described under Psychology. Credit may be applied either as Sociology or Psychology.

304. THE FAMILY 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: 203 and 204, or their equivalents.

305. THE FIELDS OF SOCIAL WORK Three hours
A survey of the various types of social work, including individual case work, group work, and community organization. Agencies set up to work with deviate forms of behavior and situations are studied both theoretically and in operation. Should be valuable for teachers as well as those contemplating doing social work.

306. CRIMINOLOGY AND DELINQUENCY Three hours
A study of the primary and secondary causes for, manifestations of, and ameliorative and preventive programs for criminal and delinquent behavior. Emphasis is placed on the implications for various community institutions, including school and church.

309. EDUCATIONAL SOCIOLOGY Three hours
This course is offered in the department of Education.

310. INTRODUCTION TO SOCIAL WORK Two hours
The analysis of social work principles, problems, and methods based upon theoretical and case material. Prerequisite: three courses in Sociology. Admission by permission of Sociology adviser. Open to seniors and to selected juniors.

320. PROSEMINAR IN SOCIOLOGICAL RESEARCH Two hours
How to set up a problem for research, techniques of collecting data, sources of data, uses of tables and charts, and the preparation of research reports. Prerequisite: At least 12 hours of Sociology. Open to seniors only and by permission. Taught both semesters.

330m. METHODS OF TEACHING SOCIAL PROBLEMS One or two hours
A study of the methods of teaching sociology, social problems and similar courses on the secondary level. Prerequisite: Five of the courses offered in this department. Offered first or second semesters to meet the convenience of the students interested.

STATISTICS
A course in statistics is offered in the Mathematics department. Students majoring in Sociology should consult the Dean when making their arrangements for a major in this field.

Speech
A student wishing to major in Speech should consult one of the members of the staff.
210. Social Psychology
Three hours
A study of individual human behavior in reaction to social environment, of the consequences of such social interaction for human personality, and of the behavior and consciousness of groups.

212. The Psychology of Abnormal People
Three hours
A study of disorders of sensation, perception, association, and so forth. Some study is made of hypnosis, hysteria, and subjects usually considered under the heading of abnormal psychology, and especially, too, the phenomena and problems of the psychoses. Psychology 201, or its equivalent, is a prerequisite.

300. Advanced General Psychology
Three hours
A more detailed and thorough examination than is possible in Psychology 201 of the major psychological functions of man. Emphasis will be placed on problems involved in perceiving, imagining and thinking. Prerequisite: Psychology 201.

301. History of Psychology
Three hours
An historical introduction to the problems and theories of modern psychology with special reference to the origin of divergences in the interpretation of human nature. Readings and discussions.

302. Theories of Learning
Three hours
A presentation of the important conclusions of modern investigations of learning and forgetting and an evaluation of the various contributions to their explanation. The place of learning theory in general psychology is stressed.

304. Contemporary Schools of Psychology
Three hours
A critical examination of the principal theories, systems and schools of modern psychology and their philosophical implications. Readings, discussions and individual investigations will constitute the course.

Sociology

Students who plan to major in Sociology should, no later than the beginning of their junior year, confer with the head of the department.

203. Principles of Sociology
Three hours
A study of the structure, functions and changes of social groups, stressing the important role that group relationships play for the individual and for society. Fundamental concepts are discussed and an introductory view of the general field of sociology is presented. Not open to freshmen, except by special permission.

204. Social Problems
Three hours
An investigation of the primary and secondary causes of social maladjustments in general and a survey of a number of major social problems confronting American society. These include population problems, poverty, crime and delinquency, divorce, race and minority cleavages, and problems of farm and village. It is desirable, but not necessary, to precede this course with 203.

206. Rural and Urban Community
Three hours
A comparative analysis of culturally variant rural and urban communities in the United States. The emphasis is on function, process, value systems and styles of life, rather than on community structure. The suburban, or "fringe" development is considered as well as rural-urban relationships. 203 is a prerequisite except for those who are working towards a two-year State Limited Certificate.

208. Community Recreation (Phys. Ed. 204)
Two hours
Especially for pre-social work students. Taught in Department of Physical Education.

210. Social Psychology (Psych. 210)
Three hours
This course is described under Psychology. Credit may be applied either as Sociology or Psychology.

303. Labor Problems
Three hours
This course is described under Economics.

304. The Family
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: 203 and 204, or their equivalents.

305. The Fields of Social Work
Three hours
A survey of the various types of social work, including individual case work, group work, and community organization. Agencies set up to work with deviate forms of behavior and situations are studied both theoretically and in operation. Should be valuable for teachers as well as those contemplating doing social work.

306. Criminology and Delinquency
Three hours
A study of the primary and secondary causes for, manifestations of, and ameliorative and preventive programs for criminal and delinquent behavior. Emphasis is placed on the implications for various community institutions, including school and church.

309. Educational Sociology
Three hours
This course is offered in the Department of Education.

315. Introduction to Social Work
Two hours
The analysis of social work principles, problems, and methods based upon theoretical and case material. Prerequisite: three courses in Sociology. Admission by permission of Sociology adviser. Open to seniors and to selected juniors.

320. Proseminar in Sociological Research
Two hours
How to set up a problem for research, techniques of collecting data, sources of data, use of tables and charts, and the preparation of research reports. Prerequisite: At least 12 hours of Sociology. Open to seniors only and by permission. Taught both semesters.

330w. Methods of Teaching Social Problems
One or two hours
A study of the methods of teaching sociology, social problems and similar courses on the secondary level. Prerequisite: Five of the courses offered in this department. Offered first or second semesters to meet the convenience of the students interested.

Statistics

A course in statistics is offered in the Mathematics department. Students majoring in Sociology should consult the Dean when making their arrangements for a major in this field.

Speech

A student wishing to major in Speech should consult one of the members of the staff.
PRACTICE-THEORY COURSES

103. FUNDAMENTALS OF SPEECH — I  
Two hours  
Basic principles of public speaking on the college level, with the aim of developing proper mental, vocal, and physical habits.

104. FUNDAMENTALS OF SPEECH — II  
Two hours  
Continuation of 103, with emphasis on longer speeches, motivation, and rhetoric. Panel discussions, symposiums, and different types of speeches will be presented. Prerequisite: Course 103.

202. PARLIAMENTARY PROCEDURE  
One hour  
A study of the basic principles of parliamentary procedure. Opportunity will be given for developing skill in the handling of the rules of parliamentary procedure. Especially recommended for pre-seminary, pre-law, and education students.

204. ANCIENT ORATORS AND THEORIES OF SPEECH  
Two hours  
Analytical study of ancient orators and rhetorical theory, predemostenes through Quintillian. Not open to Freshmen.

205. ADVANCED SPEECH COMPOSITION  
Two hours  
Study of the psychological and rhetorical techniques involved in speech composition. Speeches and oration. Intended particularly for juniors in the pre-seminary course.

207. INTRODUCTION TO SPEECH BASED ON THE GREAT BOOKS  
One hour  
Prerequisite to Course 208. A study of Adler’s How to Read a Book intended to prepare the student for careful and critical reading of the Great Books chosen as basic for work in 208. Open to Freshmen by permission.

208. SPEECH BASED ON THE GREAT BOOKS  
Two hours  
Each student will choose one of the books from the Adler list and use it as a basis for his speeches during the semester. Emphasis on speech. Prerequisite: Course 207.

301. ADVANCED SPEECH  
Two hours  
A practice course, designed for pre-seminary students. Open to others only by permission.

303. INTERPRETATIVE READING  
Two hours  
The principles and techniques of interpretation and expression. Oral interpretation of representative selections. Practice in individual and choral reading.

304. ADVANCED INTERPRETATION  
Two hours  
Continuation of 303. Application of its principles to a broader range of material, including drama, recitals, and radio reading. Especially designed for prospective teachers of interpretation and dramatics.

309. SPEECH FOR THE CLASSROOM TEACHER  
Three hours  
Designed to: (1) improve the prospective teacher’s vocal habits; (2) train in the detection, appreciation, and handling of speech defects encountered in the classroom; (3) aid the prospective coach of forensic programs. Open only to juniors and seniors in education, and others by permission.

311. ORAL DISCUSSION AND DEBATE  
Two hours  
Theory and practice of discussion and debate in their various forms.
PRACTICE-THEORY COURSES

103. **Fundamentals of Speech — I**  
Two hours  
Basic principles of public speaking on the college level, with the aim of developing proper mental, vocal, and physical habits.

104. **Fundamentals of Speech — II**  
Two hours  
Continuation of 103, with emphasis on longer speeches, motivation, and rhetoric. Panel discussions, symposia, and different types of speeches will be presented. Prerequisite: Course 103.

202. **Parliamentary Procedure**  
One hour  
A study of the basic principles of parliamentary procedure. Opportunity will be given for developing skill in the handling of the rules of parliamentary procedure. Especially recommended for pre-seminary, pre-law, and education students.

204. **Ancient Orators and Theories of Speech**  
Two hours  
Analytical study of ancient orators and rhetorical theory, predemosthenes through Quintilian. Not open to Freshmen.

205. **Advanced Speech Composition**  
Two hours  
Study of the psychological and rhetorical techniques involved in speech composition. Speeches and oration. Intended particularly for juniors in the pre-seminary course.

207. **Introduction to Speech Based on the Great Books**  
One hour  
Prerequisite to Course 208. A study of Adler's *How to Read a Book* intended to prepare the student for careful and critical reading of the Great Books chosen as basic for work in 208. Open to Freshmen by permission.

208. **Speech Based on the Great Books**  
Two hours  
Each student will choose one of the books from the Adler list and use it as a basis for his speeches during the semester. Emphasis on speech. Prerequisite: Course 207.

301. **Advanced Speech**  
Two hours  
A practice course, designed for pre-seminary students. Open to others only by permission.

303. **Interpretative Reading**  
Two hours  
The principles and techniques of interpretation and expression. Oral interpretation of representative selections. Practice in individual and choral reading.

304. **Advanced Interpretation**  
Two hours  
Continuation of 303. Application of its principles to a broader range of material, including drama, recitals, and radio reading. Especially designed for prospective teachers of interpretation and dramatics.

309. **Speech for the Classroom Teacher**  
Three hours  
Designed to: (1) improve the prospective teacher's vocal habits; (2) train in the detection, appreciation, and handling of speech defects encountered in the classroom; (3) aid the prospective coach of forensic programs. Open only to juniors and seniors in Education, and others by permission.

311. **Oral Discussion and Debate**  
Two hours  
Theory and practice of discussion and debate in their various forms.

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FORENSICS

209. **Intercollegiate Peace Oratory (Formerly 305)**  
One hour

211. **Intercollegiate Oratory (Formerly 307)**  
One hour

310. **Intercollegiate Interpretative Reading**  
One hour

312. **Intercollegiate Debating**  
One hour

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SUMMARY OF ATTENDANCE

As of September, 1950

<table>
<thead>
<tr>
<th>Class</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seniors</td>
<td>250</td>
</tr>
<tr>
<td>Juniors</td>
<td>255</td>
</tr>
<tr>
<td>Sophomores</td>
<td>327</td>
</tr>
<tr>
<td>Freshmen</td>
<td>392</td>
</tr>
<tr>
<td>Unclassified</td>
<td>46</td>
</tr>
<tr>
<td>Summer School, 1951</td>
<td>280</td>
</tr>
</tbody>
</table>

| Total          | 1660   |

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