

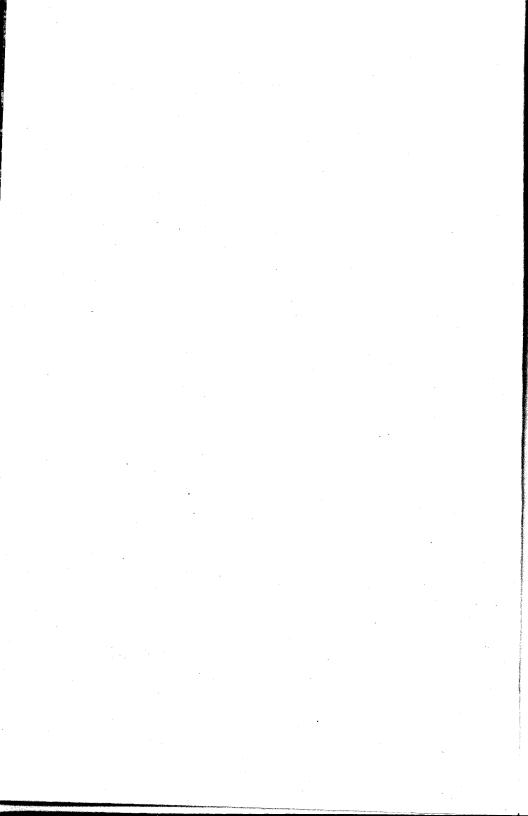
Calvin College

An Institution of the Christian Reformed Church

BULLETIN 1951-1952



GRAND RAPIDS, MICHIGAN



HOW TO ADDRESS CORRESPONDENCE

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

Regarding admission and graduation requirements, address the Dean.

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

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

Regarding boarding or rooming places for men, 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.

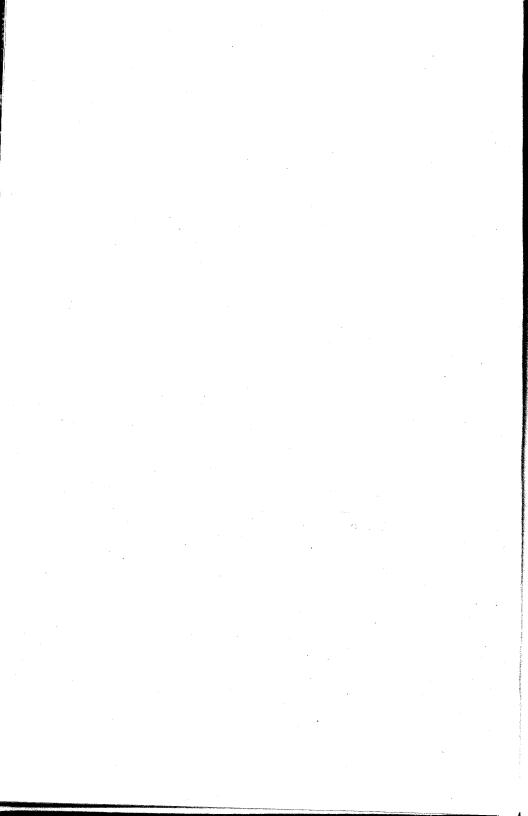


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CALENDAR 1951 - 1952

1951

Beginning of first semester and enrol ment	September 5 September 11 September 10 November 22-25
1952	
Christmas vacation ends	January 14January 22January 23-26In FebruaryMarch 22, 12:00 NoonApril 1, 7:50 A. MApril 4-5May 19
Summer Sess	ion
Enrolment	June 18 July 4
General Session 19.	52 - 1953
Beginning of first semester and enroment	September 3 September 9

BOARD OF TRUSTEES

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Trun Bras M
THE REV. MARTIN MONSMA
- 122 1011 MICHARD J. PRENS
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The Rev. Ralph Bronkema, Th.D
The Pow Homes 7
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(Classis Pacific)
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(Classis Pella)
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10

Mr. Henry Holtvluwer	Grand Rapids, Michigan
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1951 - 1952

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Honry I Ruckamp Ph D	Dean of the College
Harry G. Dekker, M.S.	Registrar
Catherine Van Opynen, A.M.	Dean of Women
Gordon Buter, M.B.A.	Business Manager
Rev. Arnold Brink	Educational Director
Rev. Arnoid Drink	

LIBRARY

Lester De	Koster, A.M.,		Director of the Library
Josephine	Baker, A.M.,	A.M.L.S	Librarian
Willemina	Twicht June	Bouma, Barbara	Sluiter
** IIICIIIIIA	i wight, o and	20011100,	Assistants in the Library

OFFICES AND BOOKSTORE

Caroline Veen	Secretary to the President
Long Rossenbrook	Unice Secretary
Connie Voscen Adeline Veen Marilyn	Zwier Office Stenographers
Loster Innel	Assistant Treasurer
Contrado Do Roor Janna Poel	Cierks, Business Office
Mrs Wilma Westra	Bookstore manager
Alice Fenenga	Assistant in the Bookstore

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William H. Vander Ploeg, M.D......1209 Kalamazoo Ave., S.E. 5-3962

MAINTENANCE AND HOUSING

Henry Keegstra	Custodian
Mn and Mrs M Schrour	Dietitians, Calvin Dolling
Mrs Anna Dolfin	Housemother, Calvin Dorning
Myg Cross Randel Housemother	Calvin Hall, 820 Bates St., S.E.
Mrs. Carolyn De Koster	Housemother, Grace Hall,
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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 OPYNEN.

EDUCATIONAL POLICY—Ryskamp, Dekker, Flokstra, Hoekstra, Jellema, R. Stob, Van Haitsma, Zylstra.

FACULTY SOCIAL AND SPECIAL ACADEMIC ACTIVITIES—Radius, Berghuis, De Jonge, Dekker, Plantinga, Slingerland, Swets.

Library—Zylstra, Dirkse, Jellema, Radius, Strikwerda.

Placement Bureau—Flokstra, De Beer, Jaarsma, Van Zyl.

PRE-SEMINARY STUDENTS RECOMMENDATIONS COMMITTEE -R. Stob, Bratt, Dekker, Meeter, Ryskamp, H. Stob.

Recreation-Monsma, Bruinsma, Slingerland, Wolthuis.

Scholarship and Guidance—Dekker, Meeter, Radius, Ryskamp, R. Stob, Van Opynen, Van Til.

STUDENT HOUSING AND DINING HALL-Daling, Bengelink, Drost, Muyskens, Slingerland, Van Opynen, Van Til, Wassink.

STUDENT PUBLICATIONS—Radius, Boersma, De Koster, Fridsma, Weidenaar.

STUDENT RELIGIOUS AND SOCIAL ACTIVITIES—Weidenaar, Bratt, Jaarsma, Meeter, Slingerland, Strikwerda, Swets, Van Opynen.

Divisional and Departmental Organization

NOR the purpose of integrating the work of the various departments within a division and the work of the division with the broader educational objectives of the school as a whole, the various courses and departments are grouped under four large divisions as

Division of Bible, Philosophy, Education and Psychology.

- (a) Department of Bible
 (b) Department of Philosophy
 (c) Department of Education
 (d) Department of Physical Culture
 (e) Department of Psychology

2. Division of Languages, Literatures and Arts.

(a) Department of Classical Languages
(b) Department of English
(c) Department of Modern Languages
(d) Department of Art
(e) Department of Music
(f) Department of Speech

Division of Natural Science and Mathematics. 3.

- (a) Department of Biology
 (b) Department of Chemistry
 (c) Department of Mathematics
 (d) Department of Physics and Engineering
- Division of Social Science.

(a) Department of Economics and Sociology

(b) Department of History and Political Science

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.

ADMISSION

A LL 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.

3

A.	FOREIGN LANGUAGE GROUP	
	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	0, 2, 3
В.	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. algebra½ or 1 unit Solid geometry½ unit Physics	0, 2, 3
C.	NATURAL SCIENCE GROUP	
	Physics 1 unit Chemistry 1 unit Biology (botany, ½ unit and zoölogy, ½ unit) 1 unit unit 1 unit 1 unit 1 unit	0, 2, 3
D.	SOCIAL STUDIES GROUP	
	Ancient history, 1 unit European history, 1, 1½, or 2 units American history, ½ or 1 unit American government, ½ unit	
	Economics, ½ unit	0, 2, 3
	Minimum requirements from above groups	5
	Total	15
	_	

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 zoölogy 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.

20 CALVIN COLLEGE

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

A DVANCED 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

Admission 21

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

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

STUDENT EXPENSES

TUITION 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 DOES NOT ARRY TO VETCOMY.

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. 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.

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

IVING 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

A LL 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,

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

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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 officers 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.

- (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 vears.

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 29

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, dramatics 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

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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.

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

A LL 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:

		EQUIV.	
Mark	Interpretation	Honor	POINTS
Α	Exceptional.		3
${f B}$	Good or very good.		2
\mathbf{C}	Graduation average.		1
\mathbf{D}	Unsatisfactory; just passable		0 .
${f E}$	Condition, which may be		
	removed by re-examination.	Minus	1
${f F}$	Failure. No re-examination.	Minus	2
$\mathbf{Inc.}$	Work not completed.	*	
\mathbf{w}	Work extending over two semesters.		

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.

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 biweekly 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

A FTER 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

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

Dismissal

A DMISSION 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.

- 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 (e) 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.

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

Hou	rs	Hours
201 , 202, 301, 302	Greek 101, 102, 201, 202,	
210, 306 4	313, 314	20
	History 101, 102	
Language 20	Latin 201A, 202A, or 307, 308	
326 3	Philosophy 300, 301, 302	9
201 , 202 6	Psychology 201	3
30 1 3	Phil. 200 (Logic)	3
103. 104 12	Speech 103, 104, 205	6
	Sociology 203	3

Schedule for the year 1951-52

er arranged for students who enter without any

Freshman Year

n Derier	SECOND SEMESTER
Hours 4 3 3 7 73) 3 or 4 2	Dutch 102 4 English 104 3 History 102 3 Latin (see page 73) 3 or 4 Speech 104 2
10	

Sophomore Year

SEMESTER SEMESTER	Hours	<u></u>	ours
<u> </u>	2	Bible 202	2
205	<i>3</i>	Chemistry 206	3
205	3	Dutch 202	
mek 101		Greek 102	. 4.
schology 201		Philosophy 200	. 3
	15		15

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
H	ours	Н	ours
Biology 210	2	Biology 306	2
Dutch 305	3	Dutch 306	3
Engish 207 (or other		Dutch History 326	3
English elective)	3	Greek 202	3
Greek 201	3	Philosophy 300	3
Sociology 203	3	English (continued)	3
Speech 205	2		
			·
	16		17

Senior Year

FIRST	SEMESTER	,	SECOND	SEMESTER	
		lours			Hours
Bible 301		2	Bible, 302		2
			Economics 202		3
			Greek 314	•••••	3
			Philosophy 302		3
Philosophy 301		3	Elective		5
Elective		2			
		16			16

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:

Chemistry
Economics-Sociology
Economics
Economics
English
French
German
History
History
History
Physics
Physical Education
Sociology
Science (Biology)

-G	erman		Music Art				
В.	Subject	t requirement	ts:				
	(1) Bi	ble 101-2 or	105-6,	201-2,	301	10	hours
	(2) E ₁	nglish 103-4				 6	hours
	(3) Hi	story				 6	hours
	(4) Bi	ology 109 and	d 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 lan-

guage 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.

(a) Psychology 201 and 202

(b) One course from Education 203, 306, or 309

(c) Education 314

(e) Speech 103 or 104
(f) Education 342: Observation
(g) Education 344: Directed Teaching

Prerequisites for Education 344, Directed Teaching:

- (a) Grade of work equivalent to C+(b) Principles of Education (314)
- (c) Educational Psychology (202) (d) Methods course in major field
- 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.
- 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).

Subject requirements:

- (2) English 103-4 6 hours (3) History 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.

	(6) Education courses
	(e) Students planning to teach in a Christian School must add Education 220, 222, 320, and 322 (f) Education 341. Observation
	(g) Education 343: Observation (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
	2) Geography 105 or 106
	(b) Principles of Education (315 or 317) (c) Educational Psychology (302)
	1) For teacher of grades K - 3Educ. 322 2) For teacher of grades 4 - 8Educ. 322
ł.	THE STATE BOARD OF EDUCATION IN Man

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.)

- Amount of Work. The student must complete 94 hours of work.
- 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.
 - PRESCRIBED WORK. The following courses are prescribed:

Freshman	Year
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FIRST SEMESTER Bible 101 or 105	hours hours	SECOND SEMESTER Biology 110 Chemistry 104 English 104	4	hours
History 101 or 205	hours hours	Mathematics 104	๑	h
15	hours	· 1	<u>۔</u>	homa

16 hours

Soph	omore Year
Biology 201 4 hou Chemistry 201 4 hou French or German 4 hou Physics 201 4 hou	rs Biology 208
16 hou	rs 16 hours
Ju	nior Year
Bible 201 2 hour Bible 301 2 hour Biology 207 3 hour Biology 311 2 hour Chemistry 301 4 hour Psychology 201 3 hour 16 hour 16 hour 16 hour 16 hour 16 hour 17 hour 18	rs Biology 306 2 hours rs Biology 312 3 hours rs Chemistry 302 4 hours rs Elective 4 hours rs — 15 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.

- 3. Prescribed Work.
- 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.
- 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:

Freshman Year

FIRST SEMESTER Bible 101 or 105	hours hours hours	SECOND SEMESTER Bible 102 or 106 English 104 Mathematics or Science Philosophy 200, Logic Political Science	3 hours 3 hours 3 hours
Speech2		Speech	hours hours
16	hours	16	hours

History 301 3 hours

*Political Science 303...... 4 hours

16 hours

Sophomore Year

		SECOND SEMESTER
Bible 201 2	hours	Bible 202 2 hours
Economics 201 3		Economics 202 3 hours
French or German 4	hours	French or German 4 hours
Hist. 313, Eng. Const 3	hours	Hist. 314, Eng. Const 3 hours
Political Science 3	hours	Political Science 3 hours
-		
15	hours	15 hours
And the second second second second		
	Junior :	Year
FIRST SEMESTER		SECOND SEMESTER
Bible 301 2	hours	Economics 306 4 hours
Economics 305 4	hours	English 3 hours
English3	hours	History 302 3 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.

16 hours

History 312 3 hours

Political Science 304...... 3 hours

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:

n Year
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
re Year
SECOND SEMESTER Economics 202
16 or 17 hours
Year
Bible 202 2 hours Econ. 306 4 hours Hist. 308 or 204 or 302 or 304 3 hours
Hist. 314
15 hours
SECOND SEMESTER Hist, 316

^{*} 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.

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 1052 hours	Drawing 102*3 hours			
Chemistry 1034 hours	Chemistry 1044 hours			
Drawing 101* 3 hours	English 104 3 hours			
English 1033 hours	Mathematics 104 3 hours			
Mathematics 1033 hours	Speech 103 or 1042 hours			
	⊷			
15 hours	15 hours			
Sophomore Year				
Drawing 201*2 hours	Bible 102 or 106			
Economics 201 3 hours	Economics 202 3 hours			
Mathematics 2013 hours	Mathematics 202 3 hours			
Physics 201E 5 hours	Physics 202E 5 hours			
Physics 203 1 hour	Physics 204 1 hour			
Surveying 207*2 or 3 hours	Elective2 hours			
16 or 17 hours	16 hours			

^{*} See Engineering Subjects.

Junior	Year	
hamma	T)- ·	

Bible 301 2 Mathematics 301 5 Economics 301 3 Statics 301* 3 Electives 3 16	hours hours	Dynamics 302* 3 Mathematics 302 5 Physics 304 3 Economics 302 3 Elective 3 17	hours
Three-Year Che	emical Pr	e-Engineering Course	
	Freshman	Year	
Bible 101 or 105	hours hours hours	Chemistry 104 4 English 104 3 Drawing 102* 3 Mathematics 104 3 Speech 2	hours hours
So	ophomore	Vear	
Chemistry 201 4 Mathematics 201 3 Drawing 201* 2 Physics 201E 5 Physics 203 1	hours hours hours hours	Pible 100 em 100	hours

Junior Year

15 hours

Bible 301 2 hours Chemistry 301 5 hours Economics 201 3 hours Mathematics 301 5 hours Statics 301 3 hours	Economics 202 3 hours Mathematics 302 5 hours Modern Physics 304 2 hours
	Electives 2 or 3 hours

17 or 18 hours

15 hours

Physics 204 1 hour

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,

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

Physics 203 1 hour

^{*} See Engineering Subjects.

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			
FIRST SEMESTER		SECOND SEMESTER	
Bible 101 or 1052	hours	Bible 102 or 1062	hours
Economics 1033	hours	Economics 1043	
English 103	hours	English 1043	hours
	hours	Lab. Science3 or 4	hours
History or	,	History or	
Mathematics3	hours	Mathematics3	hours
14 or 15	houna	14 or 15	h
14 01 13	nours	14 01 19	nours
S	ophomor	e Year	
Bible 2012	hours	Bible 2022	hours
Bible 201 2 Economics 201 3	hours	Economics 2023	hours
English 201 or 2073	hours	English 202 or 2083	hours
Mathematics 2053		Mathematics 2063	hours
Psychology 2013	hours	Philosophy 200, Logic 3	
Speech 1032	hours	Speech 1042	hours
16	hours	16	hours
10	nours	10	nours
	Junior		
Economics 3013	hours	Bible 3012	hours
Economics 3033		Economics 3023	
Economics 3054		Economics 3064	
Economics 3093		Pol. Science 3043	
Pol. Science 3033	nours	Elective3	nours
16	hours	15	hours
		the student to most the re	

This course is arranged to enable the student to meet the requirements for admission into the School of Business Administration of the University of Michigan. The student after successfully completing a maximum of one year and a summer at the University of Michigan will receive his B.B.A. degree from the University of Michigan.

Students desiring to enter Business Schools other than the University of Michigan should have a catalogue of the school available at the time of registration so that a course can be arranged.

Major in Business Administration

Candidates for a bachelor's degree from the General College Course may select their subjects with a view to obtaining a major in Business Administration. They should complete the subjects prescribed for the General College Course (see p. 36). To complete the major group requirements they should elect 24 hours in Economics and 12 hours in another department listed in Group III

MINOR IN MUSIC

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

Music Theory 103-104 and 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		CHOOME DEMESTER
Bible 101 2 Biology 105 3	hours	Biology 106
English 103 3 Chemistry 101N 4	hours	Psychology 2013 hours
Nursing Arts including		Nutrition 3 hours Pharmacology 1 hour
Hygiene (Hospital)2 Biology 107 4	hours	Nursing Arts
	nours	(Hospital)
18	hours	(Hospital)1 hour Physical Education2 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:

		and buggested.	
Chemistry 101N 4 English Composition 6 European History 3 Psychology 201 3	hours	Conjolosum	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		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 or The Family	3	hours
Philosophy (not incl. Psych. or Logic)	3	hours
*Ancient Language		hours
Chemistry (Inorganic)	8	hours
Organic and Biochemistry	8	hours
Human Anatomy and Physiology	5	hours
General Biology		hours
Microbiology	4	hours
Introduction to Embryology	4	hours
Biological Problems	2	hours
Pharmacology	1	hour
Nutrition	3	hours
~ 1 w ~ _ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		

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 highschool 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:

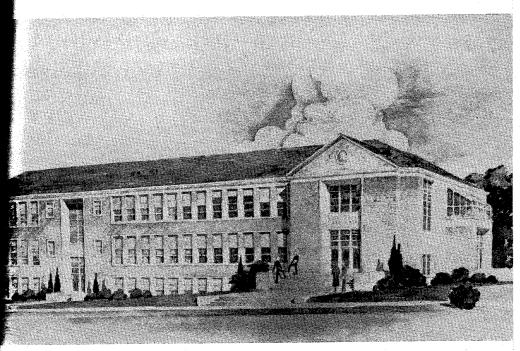
Bill (in the program are the	follow
Dible (including 301)	
English Composition and Rhetoric 6 English or American Little	hours
Silvi OI Allielliali Literature	
Psychology 6 Sociology (Introduction B. 1)	hours
Philosophy (Introduction of Problems) 3 *Ancient Language 3	hours
*Ancient Language 8	hours
Organic and Biochemistry 8	nours
Human Anatomy and Physiology 5 General Biology	hours
General Biology 5	hours
Microbiology	hours
Microscopic Technique 4 Biological Problems 1	hours
Riological Problems 1	hour
Biological Problems 1 Histology 2	hours
Histology 2 Parasitology 4	hours
Elective 6	homma
4	nours
	
94 1	nours

Suggested Program

Freshman Year

Freshman Year			
FIRST SEMESTER Biology 105	SECOND SEMESTER Biology 106		
Sophomo	ore Year		
Bible 201 2 hours Biology 107 4 hours Chemistry 103 4 hours History 101 3 hours Psychology 201 3 hours 16 hours	Bible 202 2 hours Biology 304 1 hour Elective 2 hours Chemistry 104 4 hours History 102 3 hours Sociology 204 3 hours		
Junior	Year		
Bible 301 2 hours Biology 307 4 hours Chemistry 303 4 hours English 201 3 hours Philosophy 203 3 hours 16 hours	Biology 306 2 hours Biology 308 4 hours Chemistry 304 4 hours English 202 3 hours Psychology 312 3 hours 16 hours		

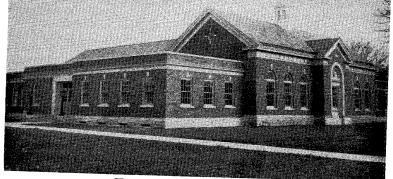
^{*} If a student has had Latin or Greek in high school, the number of hours prescribed may be reduced by four for each of the first two units.



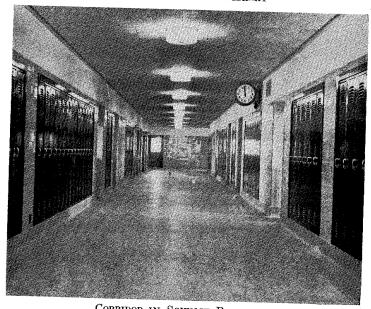
SCIENCE BUILDING



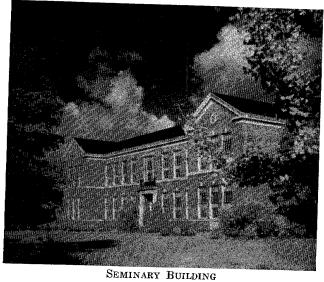
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CORRIDOR IN SCIENCE BUILDING



DISCRIPTION OF COURSES

Art

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

- 201. ART FOR ELEMENTARY TEACHERS

 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

 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

 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

 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.

Rible

- 101. Introduction to the Books of 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.

105. 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

A companion course to 105. Events of the intertestamentary 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 confessional standards of the Reformed Churches.

202. REFORMED DOCTRINE Continuation of 201.

Two hours

203. Missions

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

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.

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

A survey of the history of the Christian Church from its beginnings to the present time.

304. HISTORY OF THE CHRISTIAN REFORMED CHURCH

The historical antecedents and the development of the Christian Reformed Church in America.

305. CALVINISM IN THE NINETEENTH CENTURY

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 in non-ecclesiastical spheres.

308. REFORMED THEOLOGY AND THE MODERN
THEOLOGICAL SITUATION
In this course the Reformed Faith will be set over against modern deviations and defections from the faith. The inclusivistic 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

57

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, Predestination, and Christian Ethics. Lectures, collateral reading, and reports.

Biology

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

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.

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) Zoölogy: 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 206.

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 103, and 104. Physics, 201E and 202E, 203 and 204, and 304.

102. HUMAN PHYSIOLOGY 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 103. The proper care of our bodies and approved practices for the prevention of disease are studied. Courses 102 and 103 together form a unit 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.

PRINCIPLES OF MICROBIOLOGY 107.

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

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. Laobratory fee, \$3.00.

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. Prereequisite: 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 hours of lectures and quizzes, one laboratory period a week. Laboratory fee, \$3.00.

201. INVERTEBRATE ZOÖLOGY

Four hours

Anatomy, physiology, behavior, and classification of animals representative of the invertebrate groups. Insects and diseasecausing 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 zoölogical 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.

59

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 ZOÖLOGY

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 Zoölogy

Three hours

A continuation of 311. Two lectures and one laboratory period a week. Laboratory fee, \$3.00.

220m TEACHING RIOLOGY

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, \$5.00. No prerequisites. Not offered in 1951-52.

102. GENERAL CHEMISTRY

Four hours Continuation of 101. Hours, texts and fees the same. Not offered in 1951-52.

103. GENERAL INORGANIC CHEMISTRY

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, \$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 prenursing 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. Students preparing for a B.S. in nursing are advised to take 103E and 104E.

QUALITATIVE ANALYSIS 201.

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.

INTRODUCTION TO PHYSICAL SCIENCE 205.

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 Continuation of 205.

Three hours

301. ORGANIC CHEMISTRY

Four hours

Two or three hours of class-room work, one guiz 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.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, premedical 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 and fees the same.

Continuation of 303. Hours and fees the same.

307. PHYSICAL CHEMISTRY

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. Physical Chemistry

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 collodial state. Open only to pre-medical students.

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

One and one-half hours of lecture and three laboratory periods per week. This course is based on Shriner and Fuson's text. Prerequisite: Chemistry 302. Laboratory fee, \$3.00. Breakage fee, \$7.00.

330m. TEACHERS' COURSE

Methods of teaching chemistry in secondary schools. Prerequisite: two years of chemistry.

Dutch

A. DUTCH LANGUAGE

101. ELEMENTARY GRAMMAR Four hours
Conjugations and declensions.

102. ADVANCED GRAMMAR Four hours Review. Full declensions. Syntax. Required outside reading.

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

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

305. Modern Literature Three hours

The outstanding prose writers and poets after 1880 are read
and the movements of naturalism, symbolism, neo-romanticism and
neo-vitalism are discussed. Required outside reading and essays.

306. RENAISSANCE AND ROMANTICISM

The leading authors of the Renaissance and the Romantic Movement. Required outside reading and essays.

Note: These courses and Dutch History 326 are required of those who take the pre-Seminary course.

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

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

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

 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 ... Three hours Both semesters.
- 322. Teaching Reading in Elementary Schools Three hours Both semesters.
- 324. Teaching History

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

328. Teaching Latin Same as Latin 327 and 330m combined.

332. Remedial Reading Three hours

65

340. CURRICULUM

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
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. 343.

342. DIRECTED OBSERVATION AND LESSON
PLANNING
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

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

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

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

Exercises, instruction, and drill through the medium of 80 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

Elementary theory and practice; use of instruments, reading verniers 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

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 participle, 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:

Freshman English 103-104	6 hours
Elizabethan Period207	3 hours
American Literature201	
Seventeenth Century208	3 hours
Eighteenth Century210	3 hours
American Literature202	
or	
Romantic Period301	3 hours
Victorian Poetry302	
or	
Victorian Prose310	3 hours
Contemporary Poetry304	
or	
The Novel312	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

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

Continuation of English 201. Intensive study of Whitman and Twain. Survey of realistic movement, the new poetry, and important twentieth century fiction and criticism. Textbook, col-

lateral 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. Textbook, 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. Textbook, 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. 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 paper.
- 303. CONTEMPORARY ENGLISH FICTION Three hours

 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. Textbook, collateral reading, and reports.
- 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, Traherne, 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, exclusive of fiction, as the works of Carlyle, Ruskin, Arnold, Huxley, Mill, Newman, Pater, Stevenson, and others. Textbook and reports.

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 Chaucers' 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 hour.

A course in critical theory, historically and normatively pursued. Analysis of the principal contributions to Western literary criticism. Emphasis on Plato, Aristotle, Longinus, Horace, Sidney, Dryden, Pope, Lessing, Wordsworth, Coleridge, Shelley, Poe, Arnold, and Eliot. Method: explication de texte. Textbook and critical papers.

330m. METHODS OF TEACHING ENGLISH

Three hours

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

Four hours

Grammar, pronunciation, composition, dictation, oral drill, and conversation are intended to impart a certain amount of eartraining 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 hour

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

A history of French literature of the first half of the nineteenth century. Collateral reading and reports. Prerequisite: 101 to 202.

- 302. NINETEENTH CENTURY SECOND HALF Three hours
 A history of French literature since the middle of the nineteenth century. Collateral reading and reports. Prerequisite:101 to 202.
 Anthology in both courses: Schinz, Nineteenth Century French Readings, Vols. I and II.
- 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.

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 spe-

cializing 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 not only includes a course in methods, but also one

hour of content dealing with the Pacific area.

German

101. ELEMENTARY GERMAN Four hours Grammar and composition. Text: Vos, Essentials of German

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 otherwise, effort is made throughout the year to create Sprachgefühl. Outside reading with reports required to the extent of at least eight hundred pages for the year. Prerequisite: 201.

- 301. The Romantic Period Three hours

 A survey of German literature of the first half of the nineteenth century. Collateral reading and reports. Prerequisite:
 202. Not offetred in 1951-52.
- 302. Realism

 History of German literature since the middle of the nineteenth century. Collateral reading and reports. Prerequisite: 202. Not offered in 1951-52.
- 303. EARLY NINETEENTH CENTURY DRAMA

 A comprehensive study of the lives and works of leading German dramatists of the early nineteenth century. Assigned readings. Papers on related subjects. Prerequisite: 202. Not offered in 1951-52.
- 304. LATER NINETEENTH CENTURY DRAMA

 A study of Hebbel and Hauptmann and their times. Assigned readings and reports. Prerequisites: 202 and 303. Not offered in 1951-52.
- 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

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

Greek

Students who expect to graduate from the pre-Seminary Course must complete Courses 101, 102, 201, 202, 313, 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 book of Xenophon Anabasis, or its equivalent.
- 201. Xenophon Selections from the Anabasis. Prerequisite: 101 and 102.
- 202. SELECTIONS FROM PLATO
 Prerequisite: 201.

 Three hours
- 311. GREEK HISTORY

 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

 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

A study is made of some of the Pauline Epistles. Lectures and

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 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 Czecho-Slovakia.
Lectures, readings, and reports. Prerequisites: same as 201.

203. English History to 1600

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

204. English History 1600 to 1950. Three hours Continuation of 203, which is prerequisite.

205. EUROPE SINCE 1815

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

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

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.

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

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

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

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.

Om. Teachers' Course

Two hours

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

Prerequisite: 101 and plane geometry.

Three hours

103. College Algebra Three hours
Prerequisite: 101.

104. PLANE TRIGONOMETRY

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: 103 and 104.

202. CONTINUATION OF 201 Three hours

Plane analytical geometry completed. Introduction to solid analytical geometry.

203. SPHERICAL TRIGONOMETRY
Prerequisite: 102 and 104.

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

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.

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

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

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 (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 arpegii 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.

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 Some knowledge of piano is urgently recommended, and voice students are urged to satisfy the piano sight reading requirement as soon as possible.

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:

Bach (Schirmer Edition) Vol. I, No. 12, Prelude.

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, Piece 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 desirous 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.

THEORY

- 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.

Three hours

- 203. Theory and Harmony, Advanced Three hours
 Continuation of 103-104. 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.

Three hours

- 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.

Three hours

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.

Three hours

HISTORY AND LITERATURE

211. Introduction to Music Literature (Music Appreciation)

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.

Three hours

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.

Two hours

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

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

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

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.

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.

SECOND YEAR VOICE 217-218.

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 Additional Italian and recitatives and arias from oratorios. Fee, \$30 per semester.

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.

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.

FIRST YEAR ORGAN 109-110.

One hour

Individual lessons in organ. Prerequisite: three years of piano. Fee \$30 per semester plus \$10 per semester for the use of the

SECOND YEAR ORGAN 209-210.

One hour

Individual lessons in organ. Fee \$30 per semester plus \$10 per semester for the use of the organ.

309-310. THIRD YEAR ORGAN

One hour

Individual lessons in organ. Fee \$30 per semester plus \$10 per semester for the use of the organ.

PIANO

141-2, 241-2, 341-2, 351-2 (4 years). Per semester one hour. Individual lessons in piano. Fee \$30 per semester.

Violin

161-2, 261-2, 361-2, 371-2 (4 years). Per semester one hour. Individual

lessons in violin. Fee \$30 per semester.
Note: Arrangements will be made for additional private lessons in piano or other instruments for interested students.

APPLIED MUSIC (Groups)

ORATORIO CHORUS 101-102.

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 perform-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

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

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.

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 Study of the Critique of Pure Reason. Second semester.

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.

362. Contemporary Philosophy Three hours
History of the major philosophical movements in the last 100 years. Offered first semester.

364. METAPHYSICS Not offered 1951-1952. Three hours

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.

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 hou

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
A continuation of 203. One recitation a week.

One hour

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 collateral reading.

102. GOVERNMENT OF MODERN STATES

Three hours

Continuation of 101, which is prerequisite.

201. PRINCIPLES OF POLITICAL SCIENCE

(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 Continuation of 201, which is prerequisite.

Three hours

303. AMERICAN NATIONAL GOVERNMENT

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

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.

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 others 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 hour

A study of the structure, functions and changes of social groups, stressing the important role that group relationships play both 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

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)

Especially for pre-social work students. Taught in Department of Physical Education.

210. Social Psychology (Psych. 210)

This course is described under Psychology.

Credit may be applied either as Sociology or Psychology.

303. LABOR PROBLEMS

This course is described under Economics.

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.

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

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

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.

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

 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 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

 Each student will choose on 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

 A practice course, designed for pre-Seminary students. Open to others only by permission.
- 303. Interpretative Reading

 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.

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

SUMMARY OF ATTENDANCE

As of September, 1950	
Seniors	250
Juniors	255
Sophomores	327
Freshmen	
Unclassified	46
Summer School, 1951	280
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