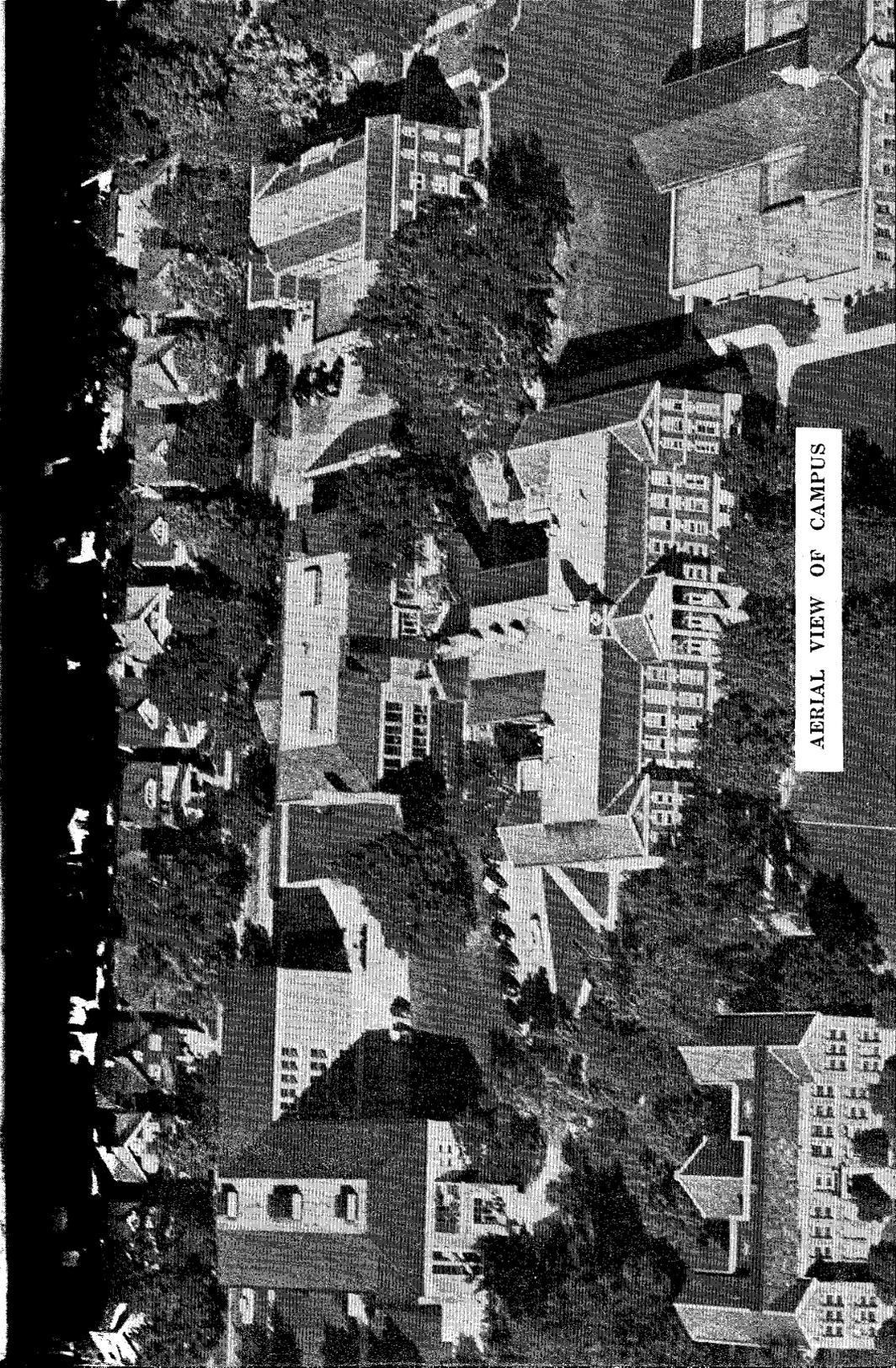




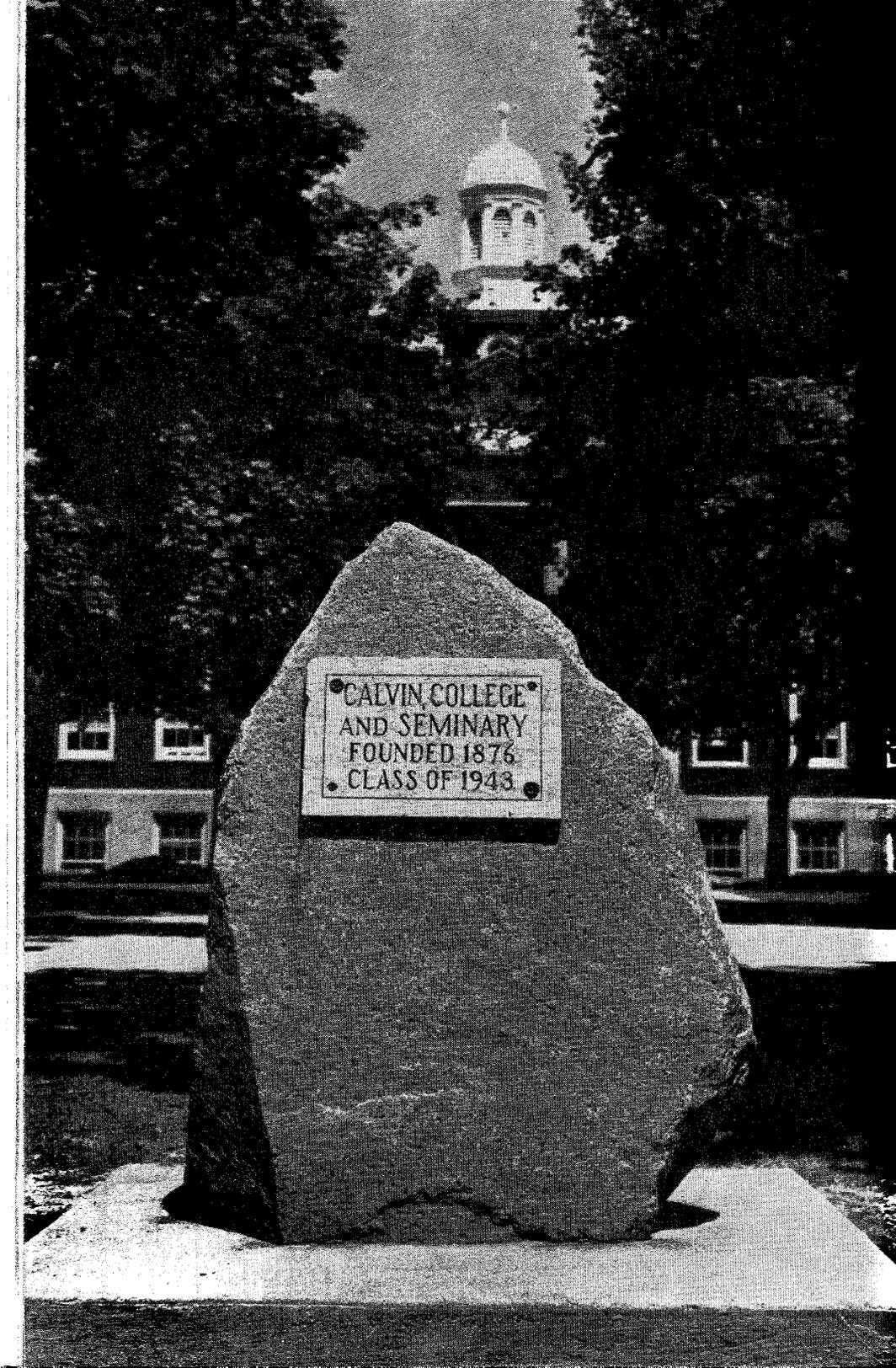
Walvin College

GRAND RAPIDS,
MICHIGAN

1956 - 1957



AERIAL VIEW OF CAMPUS



CALVIN COLLEGE
AND SEMINARY
FOUNDED 1876
CLASS OF 1943

Calvin College

An Institution of the Christian Reformed Church

**BULLETIN
1956-1957**



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:

Requests for application blanks and transcripts of record at Calvin College should be addressed to the Registrar.

For information concerning admission and graduation requirements, address the Dean of the College.

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

Regarding boarding or rooming places for men, address the Dean of Men.

Regarding teaching positions after graduation, address the Placement Bureau.

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

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

TABLE OF CONTENTS

How to Address Correspondence.....	5
Table of Contents.....	6
Calendar of the College.....	9
Board of Trustees.....	10
Executive Committee	11
The Faculty	13
Aim	21
Admission	23
Freshman Standing	23
Admission of War Veterans	25
Admission of Foreign Students	25
Advanced Standing	26
Unclassified Students	27
Student Expenses	28
Tuition	28
Other Fees	29
Deposit Account	30
Living Expenses	31
Housing	31
Student Aid	34
Scholarships	34
Prizes and Awards	40
Loans	42
Placement Bureau	42
Student Employment Service	42
Administration	44
Religious Culture	44
The Hekman Memorial Library	45
Physical Education	45
Health Service	45
Attendance	45
Grades and Honor Points	46
Examinations and Written Work	47
Dropping and Changing of Courses	47
Class Visitors	47
Dismissal	47
Use of Automobiles	47
Requirements for Graduation	49
General College	49
Pre-Seminary	51
Education	53
Pre-Medical and Pre-Dental	55
Four-year Pre-Medical	57
Three-year Pre-Law	57
Four-year Pre-Law	59
Pre-Engineering	60
Pre-Business Administration	62
Major in Business Administration	63
Major in Music	63
Minor in Music	65
Concerts and Tours	65
Pre-Agriculture, Pre-Forestry, Pre-Home Economics, and Pre-Occupational Therapy	66
Nursing Course	66

Bachelor of Science in Nursing on the Combined Curriculum Plan	66
Bachelor of Science in Medical Technology on the Combined Curriculum Plan	67
Description of Courses	69
Art	69
Bible	69
Biology	71
Chemistry	74
Dutch	75
Economics	76
Education	77
Engineering	79
English	80
French	82
Geography	83
German	83
Greek	84
History	85
Latin	87
Mathematics	88
Music	89
Philosophy	93
Physical Education	94
Physical Science	95
Physics	95
Political Science	97
Psychology	97
Sociology	98
Speech	100

CALENDAR

1956-1957

1956

September	5, 6	Wednesday and Thursday.....Faculty Conference
	7	Friday..... Re-examinations
	7, 8	Friday and Saturday.....Registration of Juniors and Seniors
	6-10	Thursday—Monday..... Freshman Orientation
	10	Monday..... Registration of Sophomores
	10, 11	Monday P.M., Tuesday A.M.....Registration of Freshmen
	12	Wednesday, 7:50 A.M.....Classes begin 10:00 A.M..... Convocation
October	18, 19	Thursday and Friday.....M.C.T.A. Convention
November	21-26	Wednesday Noon through Sunday.....Thanksgiving Recess
December	19	Wednesday, 12:00 Noon.....Christmas vacation begins

1957

January	3	Thursday, 7:50 A.M.....Classes resumed
	14	Monday.....Final examinations begin
	23	Wednesday, 5:00 P.M.....First semester ends
	24, 25	Thursday and Friday.....Registration for second semester
	29	Tuesday, 7:50 A.M.....Second semester beginsMeeting of the Board of Trustees
February		
March	27	Wednesday.....Spring vacation begins
April	4	Thursday, 7:50 A.M.....Classes resumed
	29	Friday..... Re-examinations
May	17	Friday.....Final examinations begin
	31	Friday, 8:00 P.M.....Commencement

Summer Session

June	17	Monday, 8:30 A.M.....Registration
	18	Tuesday, 8:00 A.M.....Classes begin
July	4	Thursday.....Independence Day Recess
	26	Friday.....Summer session closes

General Session, 1957-1958

September	4, 5	Wednesday and Thursday.....Faculty Conference
	6	Friday..... Re-examinations
	6, 7	Friday and Saturday.....Registration of Juniors and Seniors
	5-9	Thursday—Monday.....Freshmen Orientation and Placement Test
	9	Monday.....Registration of Sophomores
	9, 10	Monday P.M., Tuesday A.M.....Registration of Freshmen
	11	Wednesday.....Classes begin and Convocation

BOARD OF TRUSTEES

OFFICERS

THE REV. N. J. MONSMA.....	<i>President</i> (Term expires 8/31/56)
THE REV. J. BREUKER.....	<i>First Vice-President</i>
THE REV. L. GREENWAY, Th.D.....	<i>Second Vice-President</i>
DANIEL DE VRIES, M.D.....	<i>Secretary</i>
THE REV. J. T. HOOGSTRA, Th.D.....	<i>Assistant Secretary</i> (Term expires 8/31/56)

MEMBERS

The Rev. G. Van Laar.....	Box 895, Smithers, B.C., Canada (Classis Alberta)
The Rev. H. Zwaanstra.....	P. O. Box 167, Ellsworth, Michigan (Classis Cadillac)
The Rev. K. de Waal Malefyt.....	18421 S. Alburty Ave., Artesia, California (Classis California)
The Rev. J. Gritter.....	148 Wharncliffe Rd., N., London, Ontario, Canada (Classis Chatham)
The Rev. R. Veenstra.....	1224 S. 60th Ct., Cicero 50, Illinois (Classis Chicago North)
The Rev. M. Goote.....	9547 S. Homan Ave., Evergreen Park, 42, Ill. (Classis Chicago South)
The Rev. R. J. Bos.....	49 Arthur St., Truro, N. S. Canada (Classis Eastern Ontario)
The Rev. W. Van Rees.....	656 Bates St., S.E., Grand Rapids, Michigan (Classis Grand Rapids East)
The Rev. L. Greenway, Th.D.....	2050 Francis Ave., S.E., Grand Rapids 7, Michigan (Classis Grand Rapids South)
The Rev. C. Vanden Heuvel.....	1345 Powers Ave., N.W., Grand Rapids, Mich. (Classis Grand Rapids West)
The Rev. B. Bruxvoort.....	420 Valley Rd., Paterson, New Jersey (Classis Hackensack)
The Rev. T. Van Kooten.....	52 Stanley Ave., Hamilton, Ont., Canada (Classis Hamilton)
The Rev. W. P. Brink.....	27 E. 32nd Street, Holland, Michigan (Classis Holland)
The Rev. B. Pekelder.....	183 Godwin Ave., Midland Park, New Jersey (Classis Hudson)
The Rev. J. O. Bouwsma.....	5776 Higgins Ave., Kalamazoo 22, Michigan (Classis Kalamazoo)
The Rev. John Stek.....	Raymond, Minnesota (Classis Minnesota North)
The Rev. R. Veldman.....	Estelline, South Dakota (Classis Minnesota South)
The Rev. L. Veltkamp.....	1107 Terrace St., Muskegon, Michigan (Classis Muskegon)
The Rev. H. Minnema.....	616 Humiston Ave., Worthington, Minnesota (Classis Orange City)

The Rev. E. H. Oostendorp.....	Parkersburg, Iowa (Classis Ostfriesland)
The Rev. C. M. Schoolland.....	1949 E. 11th Ave., Vancouver, B. C., Canada (Classis Pacific)
The Rev. H. Verduin.....	R.R. # 2, Pella, Iowa (Classis Pella)
The Rev. Nicholas De Vries.....	2434 E. Earll Drive, Phoenix, Arizona (Classis Rocky Mountain)
The Rev. B. J. Haan.....	142 Second St., N.E., Sioux Center, Iowa (Classis Sioux Center)
The Rev. P. Ouwinga.....	R.R. # 3, Baldwin, Wisconsin (Classis Wisconsin)
The Rev. J. Breuker.....	R.R. #3, Hudsonville, Michigan (Classis Zeeland)
P. Hofstra, M.D.....	149 Haledon Ave., Paterson, New Jersey
Mr. L. Beré.....	5601 W. 63rd St., Chicago 38, Illinois
Daniel De Vries, M.D.....	82 Maryland Ave., S.E., Grand Rapids, Michigan
Mr. G. Buter, M.B.A.....	1020 Griswold Ave., S.E., Grand Rapids 4, Mich.
E. Feenstra, D.V.M.....	627 Gorham Lane, Kalamazoo, Michigan
Mr. Wallace Waalkes, A.B., L.L.B.....	1420 Dunham St., S.E., Grand Rapids, Michigan
Mr. B. Staal.....	4153 Lake Shore Dr., Holland, Michigan
Mr. J. Brouwer, A.M.....	Pella, Iowa
J. Hoekzema, M.D.....	Bellflower, California

EXECUTIVE COMMITTEE

The Rev. J. Breuker
The Rev. J. Bouwsma
The Rev. L. Greenway, Th.D.
The Rev. C. Vanden Heuvel
The Rev. W. Van Rees
The Rev. R. Veenstra
The Rev. L. Veltkamp
Mr. Lambert Beré
Mr. G. Buter
Daniel De Vries, M.D., Secretary
Ernest Feenstra, D.V.M.
Mr. B. Staal

ACADEMIC ADMINISTRATION

William Spoelhof, Ph.D.....	President
Henry J. Ryskamp, Ph.D.....	Dean of the College
Harry G. Dekker, M.S.....	Registrar
Philip Lucasse, A.M.....	Dean of Men
Catherine Van Opynen, A.M.....	Dean of Women

BUSINESS ADMINISTRATION

Henry De Wit, M.B.A., C.P.A.....	Business Manager
Sydney Youngsma.....	Development Secretary
Albert Lewen.....	Director of Food Service
Lester Ippel.....	Assistant Business Manager

HEALTH SERVICE

Martin Sjaarda, M.D.....	Telephone GL 2-9357
Campus Physician	
740 Alger St., S.E.	
Carolyn Vredevoogd, B.S., R.N.....	Telephone GL 2-7143
Campus Nurse	
1420 Rossman Ave., S.E.	

THE FACULTY

- WILLIAM SPOELHOF, PH.D., *President*
1315 Alexander Street, S.E. Telephone CH 3-0636
- ALBERTUS J. ROOKS, A.M., *Dean Emeritus*
Professor of Latin Language and Literature, Emeritus
737 Benjamin Avenue, S.E. Telephone CH 5-1221
- JACOB G. VANDEN BOSCH, A.M.
Professor of English Language and Literature, Emeritus
857 Bates Street, S.E. Telephone CH 5-6054
- ALBERT E. BROENE, A.B.
Professor of Modern Languages, Emeritus
1355 Sherman Street, S.E. Telephone GL 4-6363
- JOHANNES BROENE, A.M.
Professor of Educational Psychology, Emeritus
629 S. Buena Vista, Redlands, California
- JOHN P. VAN HAITSMAN, PH.D.
Professor of Biology, Emeritus
1027 Benjamin Avenue, S.E. Telephone CH 3-5306
- JAMES NIEUWDORP, B.S.
Professor of Mathematics, Emeritus
1046 Fuller Avenue, S.E. Telephone CH 5-3765
- HENRY J. G. VAN ANDEL, A.M.
Professor of Language and Culture of the Netherlands, Emeritus
1231 Giddings Avenue, S.E. Telephone CH 5-5096
- PETER HOEKSTRA, PH.D.
Professor of History and Political Science, Emeritus
1015 Worden Street, S.E. Telephone CH 5-5057
- H. HENRY MEETER, TH.D.
Professor of Bible, Emeritus
1045 Fuller Avenue, S.E. Telephone CH 5-7692
- HENRY VAN ZYL, PH.D.
Professor of Educational Methods, Emeritus
1143 Fuller Avenue, S.E. Telephone CH 5-6600
- HENRY J. RYSKAMP, PH.D., *Dean of the College*
Professor of Economics and Sociology
1201 Sherman Street, S.E. Telephone GL 9-3857
- *WILLIAM HARRY JELLEMA, PH.D.
Professor of Philosophy
1001 Alexander Street, S.E. Telephone GL 2-5449
- HARRY G. DEKKER, M.S., *Registrar*
Professor of Chemistry
1309 Alexander Street, S.E. Telephone CH 3-1437
- SEYMOUR SWETS, A.M.
Professor of Music
1110 Giddings Avenue, S.E. Telephone CH 1-3551

* On leave of absence during first semester, 1956-57

- LAMBERT J. FLOKSTRA, PH.D.
Professor of Education
 1126 Alto Avenue, S.E. Telephone CH 3-5979
- EDWIN Y. MONSMA, PH.D.
Professor of Biology
 719 Fuller Avenue, S.E. Telephone CH 5-9861
- HARRY J. WASSINK, A.B., B.S.
Professor of Physics and Engineering
 835 Eastern Avenue, S.E. Telephone GL 2-9502
- WILLIAM THOMAS RADIUS, PH.D.
Professor of Classical Languages
 1341 Colorado Avenue, S.E. Telephone CH 5-1407
- JOHN DE VRIES, PH.D.
Professor of Chemistry
 851 Calvin Avenue, S.E. Telephone CH 3-8438
- ALBERT H. MUYSKENS, A.M.
Professor of Mathematics
 1557 Philadelphia Avenue, S.E. Telephone CH 5-6752
- RICHARD DROST, PH.D.
Professor of History
 1220 Sherman Street, S.E. Telephone CH 5-0951
- CORNELIUS JAARSMAN, PH.D.
Professor of Education
 2229 College Avenue, S.E. Telephone GL 2-3649
- **HENRY ZYLSTRA, Ph.D.
Professor of English
 711 Benjamin Avenue, S.E. Telephone CH 3-5413
- THEDFORD DIRKSE, PH.D.
Professor of Chemistry
 154 Holmdene Avenue, N.E. Telephone GL 8-9409
- JOHN THOMAS DALING, PH.D.
Professor of Psychology
 West Leonard Road, RFD #5 Telephone OR 7-1186
- JOHN J. TIMMERMAN, PH.D., *Secretary of the Faculty*
Professor of English
 1133 Neland Avenue, S.E. Telephone CH 5-0697
- EARL STRIKWERDA, PH.D.
Professor of History
 1231 Franklin Street, S.E. Telephone CH 3-7892
- ENNO WOLTHUIS, PH.D.
Professor of Chemistry
 1702 Griggs Street, S.E. Telephone GL 2-9135
- JOHN HAROLD BRATT, TH.D.
Professor of Bible
 1206 Alexander Street, S.E. Telephone CH 5-2041
- JOHN VAN BRUGGEN, PH.D.
Professor of Education
 616 College Avenue, S.E. Telephone CH 3-6468

** On leave of absence during 1956-57

- BERNARD FRIDSMA, Ph.D.
Professor of German
 1017 Alto Avenue, S.E. Telephone GL 2-2176
- DONALD HERBERT BOUMA, Ph.D.
Professor of Sociology
 1401 Johnston Street, S.E. Telephone CH 3-9992
- CLARENCE BOERSMA, Ph.D.
Professor of German
 760 Rosewood Avenue, S.E. Telephone CH 1-3436
- CORNELIUS A. PLANTINGA, Ph.D.
Professor of Psychology
 1060 Bates Street, S.E. Telephone CH 3-3125
- JOHN LESTER DE BEER, Ed.D.
Professor of Education
 1740 Giddings Avenue, S.E. Telephone GL 2-4680
- HENRY R. VAN TIL, Th.M.
Associate Professor of Bible
 1414 Dunham Street, S.E. Telephone GL 2-0085
- JAMES J. DE JONGE, M.S., M. Mus.
Associate Professor of Music
 1300 Calvin Avenue, S.E. Telephone CH 3-7809
- MARTIN KARSTEN, M.S.
Associate Professor of Biology
 1403 Eastern Avenue, S.E. Telephone GL 2-4273
- JOHN TULS, A.M.
Associate Professor of Mathematics
 101 Fuller Avenue, S.E. Telephone GL 4-4406
- JOHN WEIDENAAR, Th.M.
Associate Professor of Bible
 2949 Oakwood Street, S.E. Telephone CH 5-1776
- H. EVAN RUNNER, Th.M., Ph.D.
Associate Professor of Philosophy
 420 Ethel Avenue, S.E. Telephone GL 4-7515
- CHARLES MILLER, Ph.D.
Associate Professor of History
 1250 Sherman St. S.E. Telephone GL 2-8733
- HERMAN BROENE, Ph.D.
Associate Professor of Chemistry
 1411 Rossman Avenue, S.E.
- ANTHONY HOEKEMA, A.M., Th.D.
Associate Professor of Bible
 1228 Dunham, S.E. Telephone
- CATHERINE VAN OPYNEN, A.M., *Dean of Women*
 2558 Belfast Avenue, S.E. Telephone CH 5-3920
- GERTRUDE SLINGERLAND, A.M.
Assistant Professor of English
 2601 Almont Avenue, S.E. Telephone CH 5-7590

- HENRY BENGELINK, M.S.
Assistant Professor of Biology
 1201 Sigsbee Street, S.E. Telephone GL 4-6602
- LESTER DE KOSTER, A.M., A.M.L.S., *Director of the Library*
Assistant Professor of Speech
 Thornapple River Drive, R.R. #3 Telephone GL 1-0973
- MELVIN E. BERGHUIS, A.M.
Assistant Professor of Speech
 1234 Boston Street, S.E. Telephone GL 2-1525
- JOHN VANDEN BERG, A.M.
Assistant Professor of Economics
 1318 Adams Street, S.E. Telephone CH 3-1316
- HENRY P. IPPEL, A.M.
Assistant Professor of Political Science and History
 1327 Hope Street, S.E. Telephone GL 4-9192
- BARNEY STEEN, A.M.
Assistant Professor of Physical Education
 1846 Griggs Street, S.E. Telephone CH 3-4813
- WALTER LAGERWEY, A.M.
Assistant Professor of Language and Culture of the Netherlands
 1209 Dunham Street, S.E. Telephone CH 5-0180
- HAROLD GEERDES, A.M.
Assistant Professor of Music
 345 Auburn Avenue, S.E. Telephone GL 4-6601
- EMO F. J. VAN HALSEMA, S.T.M.
Lecturer in the Department of Modern Languages
 1042 Alger Street, S.E. Telephone CH 3-3109
- CORNELIUS VAN ZWOLL, A.M.
Assistant Professor of German
 1627 Lotus, S.E. Telephone
- JOHN DE BIE, A.M.
Assistant Professor of History
 1236 Mound Avenue, N.W. Telephone RI 2-5043
- HELEN VAN LAAR, A.M.
Instructor in Education
 1319 Sigsbee Street, S.E. Telephone GL 6-5083
- ARTHUR J. OTTEN, A.M.
Instructor in French
 553 Fuller Avenue, S.E. Telephone GL 4-9782
- GEORGE GRAHAM HARPER, A.M.
Instructor in English
 1141 Thomas Street, S.E. Telephone CH 1-3621
- ROBERT T. OTTEN, A.M.
Instructor in Classical Languages
 532 Ethel Avenue, S.E. Telephone GL 8-3165
- ANN JANSSEN, A.M.
Instructor in Speech and English
 1763 Kalamazoo Avenue, S.E. Telephone CH 1-4118

- HENRY DE WIT, M.B.A., *Business Manager*
Instructor in Economics
 1520 Edwards Street, S.E. Telephone CH 5-1223
- JOHN HAMERSMA, S.M.M., *College Organist*
Instructor in Music
 607 Locust Avenue, S.E. Telephone GL 8-1438
- PETER OPPEWALL, A.M.
Instructor in English
 856 Benjamin Avenue, S.E. Telephone CH 3-0269
- DAVE TUUK, A.M.
Instructor in Physical Education
 1336 Dunham Street, S.E. Telephone GL 2-5852
- STEVE VANDER WEELE, PH.D.
Instructor in English
 1220 Fuller Avenue, S.E. Telephone GL 2-4598
- BASTIAAN VAN ELDEREN, B.D., A.M.
Instructor in Classical Languages
 1116 Watkins Street, S.E. Telephone GL 2-4688
- RICHARD TIEMERSMA, A.M.
Instructor in English
 1333 Bemis Street, S.E. Telephone GL 9-6079
- CARL SINKE, PH.D.
Instructor in Mathematics
 701 Prospect Ave., S.E. Telephone
- SHERMAN VAN SOLKEMA, M. MUS.
Instructor in Music
 517 Giddings Avenue, S.E. Telephone GL 8-7165
- PHILIP LUCASSE, A.M., *Dean of Men*
 711 Benjamin Ave., S.E. Telephone CH 3-5413
- FRED EARLE BROUWER, A.M.
Instructor in Philosophy
 1038 Logan St., S.E. Telephone GL 4-8602
- JOSEPHINE BAKER, A.M., A.M.L.S.
Librarian
 923 Eleventh Street, N.W. Telephone GL 8-5744
- NELL ORNEE, B.S., A.M.L.S.
Librarian
 923 Colrain Street, S.W. Telephone CH 5-3321
- BARBARA SLUITER, A.B., A.M.L.S.
Librarian
 1230 Diamond Avenue, S.E. Telephone RI 2-5643
- ANNETTE BUURSTRA, A.B., A.M.L.S.
Librarian
 932 Dickinson Street, S.E. Telephone GL 2-6139
- ERVINA VAN DYKE BOEVE, A.M.
Assistant in Speech
 1517 Philadelphia Ave., S.E. Telephone

- *JAMES BOSSCHER, B.S.
Assistant in Mathematics and Engineering
 1429 Louise Avenue, S.E. Telephone CH 3-2841
- NELL OOSTHOEK, A.B.
Assistant in Physical Education
 1011 Watkins Street, S.E. Telephone CH 5-1788
- BERNARD TEN BROEK, A.M.
Assistant in Biology
 1025 Alto Avenue, S.E. Telephone CH 3-9369
- LEONARD VANDER LUGT, B.S.
Assistant in Chemistry
 1124 Griggs Street, S.E. Telephone CH 3-3022
- ERNEST VAN VUGT, A.B.
Assistant in Classical Languages
 Henry Street, Hudsonville, Michigan Telephone MO 9-6409
- BETTY DUIMSTRA, A.M.
Assistant in Classical Languages
 221 Eastern Avenue, S.E. Telephone GL 4-5618
- ALAN GEBBEN, A.M.
Assistant in Biology
 1338 Sigsbee St., S.E. Telephone
- HELEN H. BROUWER, A.M.
Assistant in English

* On leave 1956-57

Committees of the Faculty

1. ATHLETICS — De Vries, *Chairman and Faculty Representative on the M.I.A.A. Board*; Karsten, Muyskens, Tuls, Vanden Berg; (Steen and Tuuk, advisory members).
2. COLLEGE-SEMINARY INTERRELATIONS — Ryskamp, Hoekema.
3. DISCIPLINE — Van Bruggen, *Chairman*; Bengelink, Dirkse, Monsma, Robert Otten, Dean of Men, Dean of Women.
4. EDUCATIONAL POLICY — Ryskamp, *Chairman*; Bratt, Dekker, Jellema, Radius, Strikwerda, Tuls, Wolthuis.
5. FACULTY SOCIAL AND SPECIAL ACADEMIC ACTIVITIES — Berghuis, *Chairman*; De Bie, Geerdes, Hamersma, Radius, Slingerland.
6. LIBRARY — Fridsma, *Chairman*; Ippel, Miller, Arthur Otten, Plantinga, Tiemersma, Van Solkema, Van Zwoll.
7. PLACEMENT BUREAU — Flokstra, *Chairman*; Jaarsma, Van Laar.
8. PRE-SEMINARY RECOMMENDATIONS — Van Til, *Chairman*; De Beer, Dekker, Runner, Ryskamp.

9. SCHOLARSHIP AND GUIDANCE — Dekker, *Chairman*; Bouma, Ryskamp, Dean of Men, Dean of Women.
10. STUDENT PUBLICATIONS — Van Halsema, *Chairman*; Van Elderen, Janssen, Vander Weele.
11. STUDENT RELIGIOUS AND SOCIAL ACTIVITIES — Dean of Men, *Chairman*; Drost, Chapel Director; Broene, De Jonge, Geerdes, Oppewall, Steen, Vanden Berg, Dean of Women.

Divisional and Departmental Organization '56-57

FOR 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 follows:

1. Division of Bible, Philosophy, Education and Psychology —
 DR. JELLEMA, *Chairman*.
 - (a) Department of Bible — Dr. Bratt, *Chairman*
 - (b) Department of Philosophy — DR. JELLEMA, *Chairman*
 - (c) Department of Education — DR. FLOKSTRA, *Chairman*
 - (d) Department of Physical Education —
 Asst. PROF. STEEN, *Acting Chairman*
 - (e) Department of Psychology — DR. DALING, *Chairman*
2. Division of Language, Literature, and Arts —
 DR. RADIUS, *Chairman*.
 - (a) Department of Classical Languages — DR. RADIUS, *Chairman*
 - (b) Department of English — DR. ZYLSTRA, *Chairman*
 - (c) Department of Modern Languages —
 DR. BOERSMA, *Chairman*
 - (d) Department of Art
 - (e) Department of Music — PROF. SWETS, *Chairman*
 - (f) Department of Speech — Asst. PROF. BERGHUIS, *Acting Chairman*
3. Division of Natural Science and Mathematics —
 DR. DE VRIES, *Chairman*
 - (a) Department of Biology — DR. MONSMA, *Chairman*
 - (b) Department of Chemistry — DR. DE VRIES, *Chairman*
 - (c) Department of Mathematics — PROF. MUYSKENS, *Chairman*
 - (d) Department of Physics and Engineering —
 PROF. WASSINK, *Chairman*
4. Division of Social Science — DR. RYSKAMP, *Chairman*
 - (a) Department of Economics and Sociology —
 DR. RYSKAMP, *Chairman*
 - (b) Department of History and Political Science —
 DR. STRIKWERDA, *Chairman*

THE COLLEGE

History

THE YEAR 1876 is commonly accepted as the birthdate of Calvin Seminary and Calvin College. It was in that year that the Synod of the Christian Reformed Church discontinued the tutorial system of instructing young men who felt called to the ministry of the gospel and appointed a full-time "Docent" or instructor. This Synod also adopted a six-year curriculum, the first four of which constituted the Literary Department and the last two the Theological Department. Humble indeed was the beginning, but an institution had been established, the Theological School of the Christian Reformed Church.

The lone instructor taught all subjects, both literary and theological, for several years before two additional members were added to the teaching staff. In 1894, Synod, in compliance with requests from its constituents, made two momentous decisions, momentous in those early years; first, it granted permission to admit to the Literary Department other than pre-theological students; secondly, it enlarged the faculty to five members, assigning the new appointees exclusively to the Literary Department. This Literary Department thus rapidly developed into an institution of the type of the preparatory schools or academies that had sprung up throughout the New England states in the early decades of the 19th century.

Although the doors had now been opened for the admission of other than theological students, for reasons now quite obvious none sought admission to the preparatory school. The curriculum of the Literary Department was heavily weighted with courses in languages, such as Dutch, German, Latin, Greek and even Hebrew. Such a program did not appeal to the non-theological student. Consequently in 1900, the literary or preparatory course was liberalized and broadened, and students interested in teaching or preparing themselves for pre-professional courses in the universities soon began to fill the class rooms and lecture halls.

Although the early requirement for admission to the Theological Department was four years of preparatory training, it was realized that the future ministers of the church should have a broader intellectual and cultural background, and so a fifth, and by 1906 a sixth year had been added. In 1906, the Literary Department, now consisting of four years of preparatory and two years of college work, became known officially as the John Calvin Junior College. Four years later in 1910, a seventh year was added and by 1920 the Junior College had become a full-grown four-year liberal arts college and

had assumed the name, Calvin College. Its first president was appointed in 1919, and the Bachelor of Arts degree was first awarded in June, 1921. The college curriculum was broadened to meet the needs of the increasing number of young men and women who sought permission to enroll as students. The faculty likewise was enlarged so that in this year of 1957 it has on its register the equivalent of seventy full-time members. Graduates of Calvin are accepted by leading graduate and professional schools in the United States.

What had been the preparatory department was discontinued in 1921 when the last Freshman class was admitted. Those registered previous to this date were permitted to complete the four year program, and thus by 1925 only students of college level remained on campus.

The school which had started with seven students in 1894 grew slowly during the first three decades, but by 1915 had a student total of 300, including 239 in the Preparatory Department and 61 in the College, as the following figures indicate:

Year	Preparatory School	Junior College	Four Year College
1906	124	14	—
1910	161	33	—
1915	239	61	—
1920	131	—	122
1930	—	—	358
1940	—	—	499
1950	—	—	1270
1957	—	—	1541

Between 1920 and 1940 the student body had increased fourfold. Then came the tidal wave of enrollments so that today over 1500 young men and women are taking advantage of the educational programs which Calvin offers.

Aim and Purpose

CALVIN COLLEGE is a church-related college, existing under the auspices of the Christian Reformed Church, a Protestant denomination which has adopted as its standards the Belgic Confession, the Heidelberg Catechism and the Canons of Dort. The members of the faculty endorse and affirm the following statement which they acknowledge without reservations as a statement of their task and goal as Christian teachers:

“According to the constitution all instruction given must be in harmony with Reformed faith. 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."

Members of the faculty acknowledge and in all their teaching are guided by certain basic Christian principles, among which are the following:

- a. "That all instruction at Calvin College must be under the absolute Lordship of the Christ."
- b. "That the Bible, the infallible Word of God, is our rule and guide in faith and life, doctrine and conduct."
- c. "That all thinking is determined by presuppositions and that all teaching at Calvin must be determined by the presuppositions of the Christian Faith as set forth in our Reformed standards."

The college admits to its student body young men and women who are affiliated with orthodox Protestant Christian churches. It seeks to develop in its students a sense of genuine personal piety, of personal integrity, and of social responsibility. It strives to emphasize that service to God and fellow man is possible and necessary in all professions and activities. It aims to maintain high standards of scholarship and ethical conduct both in the faculty and student body in the spirit of the ideals of its founders.

Control and Government

Calvin College is controlled by the Synod of the Christian Reformed Church through a Board of Trustees, consisting of both ministers and laymen, elected by the Synod. This Board meets semi-annually, in February and May of each year. An Executive Committee which meets monthly functions for the Board throughout the school year.

Accreditation

Calvin College is fully accredited by the North Central Association of Colleges and Secondary Schools, the regional accrediting agency of this area. It is on the approved list of the University of Michigan, the Department of Public Instruction of the State of Michigan, and the State Education Department of the State of New York. Courses completed at Calvin are accepted by other colleges and universities, and graduates of the college, in general, may expect admission to full graduate standing in standard universities. Calvin College is a member of the Association of American Colleges.

ADMISSION

ALL APPLICATIONS for admission should be made to the Dean of the College 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 in addition to the pastor's recommendation.

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

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 any 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..... 3

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..... 7

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

Prospective college students are urged to submit two units of a foreign language for college admission.

B. MATHEMATICS-PHYSICS GROUP

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

Adv. algebra..... $\frac{1}{2}$ or 1 unit	Trigonometry $\frac{1}{2}$ unit
Solid geometry..... $\frac{1}{2}$ unit	Physics 1 unit

0, 2, 3

Prospective college students are urged to submit two units of mathematics for college admission.

C. NATURAL SCIENCE GROUP

Biology1 unit	General Science1 unit
Botany1 unit	Physics1 unit
Chemistry1 unit	Zoology1 unit

0, 2, 3

D. SOCIAL STUDIES GROUP

Ancient history, 1 unit
 European history, 1, $1\frac{1}{2}$, or 2 units
 American history, $\frac{1}{2}$ or 1 unit
 American government, $\frac{1}{2}$ unit
 Economics, $\frac{1}{2}$ unit

0, 2, 3

Minimum requirements from above groups..... 10

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

5

Total..... 15

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

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

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 foreign 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, medical technology, and 3-year nursing students should present, if possible, $1\frac{1}{2}$ units of algebra, 1 unit of geometry, 1 unit of high school chemistry, 1 unit of high school physics, and two units of high school Latin.

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

Pre-engineering students should present, if possible, $1\frac{1}{2}$ units of algebra, 1 unit of geometry, $\frac{1}{2}$ unit of trigonometry, 1 unit of chemistry, and 1 unit of physics.

PLAN B. ADMISSION BY EXAMINATION. Applicants who are unable to furnish approved certificates, and who are therefore un-

able 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. The deficiency must be removed before the end of the first year of residence. However, applicants are strongly urged to make up any deficiency during the summer preceding their enrollment as freshmen. Attention is called to the course offerings of the Calvin College summer session.

Admission of War Veterans

Calvin College has been approved by the Veterans Administration as an institution of higher education for the training of discharged servicemen. A veteran who wishes to attend college should obtain Form 7-1990, Application For Program of Education and Training, from the nearest regional office of the Veterans Administration or from the college Registrar's office. Advice for completing this form will gladly be given by Calvin's Veterans' Counselor. Upon submitting this form to the Veterans Administration the veteran will receive a Certificate of Education and Training. This should be presented to the Registrar or his secretary at the time of registration.

For admission to college, veterans will be expected to submit all of the application blanks required of civilian students for admission. Veterans will receive credit, as recommended by the American Council on Education, for liberal arts courses taken through the USAFI and for correspondence courses taken from accredited universities.

Admission of Foreign Students

Calvin College was approved by the commissioner, Immigration and Naturalization Service, Washington, D.C. December 3, 1947, File Number 56182-720, as an institution of higher education for the training of immigrants students who are in the United States on student visas.

Foreign students, particularly in countries other than Canada, should begin making application for admission to college early in the spring. To prevent loss of time they should proceed as follows:

1. Write to the Dean or the Registrar of Calvin College, declaring their intention of seeking admission and requesting the necessary application blanks.

2. Return all blanks, properly filled in, to the college as soon as possible. This includes official transcripts of record of all high school or college preparatory training and such credits as were earned on the college or university level. Upon receipt of acceptance for admission from the Dean of the College, they should immediately make application with the American Consul in the area of their residence for passport and visa.

Advanced Standing

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

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

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

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

4. When the applicant submits credits from an accredited high school for work done after graduation, provided these credits are in courses taught in both high school and college; the limit of such college credit allowance is six hours.

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 of the College.

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

Exchange of Credits Between College and Seminary

1. A college student may, under the conditions stipulated below, be permitted to take courses for credit in the seminary. Under no circumstances, however, may the credit earned be applied toward fulfillment of degree requirements in the college if it is also used to meet degree requirements in the seminary. In other words, the credit may not be counted toward degrees in both college and seminary.

2. College students may be permitted to enroll in such seminary courses as the seminary permits them to take and as the Dean of the College approves. Ordinarily such courses may not be substituted for courses prescribed in the college to meet degree requirements, either the subject requirements prescribed in the catalog or the major and minor requirements prescribed by the several departments. The subjects must be such as would ordinarily be accepted for credit by the head of the department to whose field the subject would be regarded as belonging.

3. A student enrolled in the college may not take any work in the seminary for seminary credit without informing the college authorities. No more than six seminary hours may be taken in any given semester.

4. A student enrolled in the seminary may be given permission to take courses in the college for seminary credit, that is, for credit to be transferred to the seminary, provided he has received the permission of the Registrar of the Seminary, the Dean of the College, and the professor whose course is involved.

Unclassified Students

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

STUDENT EXPENSES

Tuition Rates

An amount equal to at least 25% of the total cost of tuition for each semester must be paid at the time of registration. The balance of all tuition and fees should be paid by October 1 of the first semester and by March 1 of the second semester. Accounts not paid by these dates are subject to a \$2.00 late payment fee.

Tuition fees listed below include the organization, health service, locker, and laboratory fees.

REGULAR TUITION FEE

The regular tuition fee is \$255.00 per 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.

Local Zone (extending up to ten miles from Calvin College Campus)

For students residing within this zone the tuition is \$180.00 per semester. For two students from one family residing within this zone the tuition for each is \$160.00 per semester.

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

For students residing within these zones the tuition is \$155.00 per semester. For two students from one family residing in the region defined, the tuition for each is \$135.00 per semester.

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

For students residing within these zones the tuition is \$125.00 per semester. For two students from one family residing in the region defined, the tuition for each is \$105.00 per semester.

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

For students residing within these zones the tuition is \$90.00 per 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 basis of the province in which each resides.

Manitoba, Ontario, and Quebec Provinces.

For students residing in these provinces the tuition is \$125.00 per semester. For two students from one family residing in these provinces the tuition for each is \$105.00 per semester.

Alberta, British Columbia, and Saskatchewan Provinces.

For students residing in these provinces the tuition is \$90.00 per semester. This is the minimum tuition.

Foreign Countries. For students whose parents are not missionaries of the Christian Reformed Church.

For students from foreign countries, other than Canada, who are in the U. S. on a student visa, the tuition is \$255.00 per semester. If the student becomes a member of a Christian Reformed Church in the Grand Rapids area, the tuition will be that charged in the local zone and will be retroactive to the beginning of the semester in which he joins a Christian Reformed Church in the Grand Rapids area.

Children of Missionaries of the Christian Reformed Church

For students under twenty-one years of age, whose parents are foreign missionaries of the Christian Reformed Church, still active in service, there will be no tuition charge.

Students who are members of the Christian Reformed Church, but whose parents are not.

For students who are members of the Christian Reformed Church, but whose parents are not, the tuition is based on the zone in which the Christian Reformed Church of which the student is a member is located.

Married Students.

In calculating the tuition of married students residence is determined as follows:

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

For married students who can give evidence of the fact that they return to their former established home during the entire summer vacation, and are gainfully employed while there, the tuition is the amount charged in the zone of their former established home.

Other Fees

ORGANIZATION, HEALTH SERVICE, AND LABORATORY FEES

The regular tuition charge per semester for all students, except those registered for less than six semester hours, includes a \$5.50 Organization fee, a \$2.50 Health Service fee, and a \$3.00 Laboratory fee. No separate charge is made for any of these.

EXCESS HOURS FEE

Students taking in excess of eighteen 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 seventeen dollars and fifty cents for each semester hour; members of the Christian Reformed Church, twelve dollars.

LABORATORY OR BREAKAGE FEE

No extra charge is made for the use of equipment and supplies in regularly scheduled laboratory work. Breakage of equipment and supplies is charged against the student's deposit account at the end of each semester.

DIRECTED TEACHING FEE

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

GRADUATION FEE

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

The charge for a second diploma on the combined curriculum or like plan is \$5.00.

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 ten 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

No separate charge is made for a locker. Rental charge for the use of lockers is included in the tuition fee.

* These fees are subject to change and likely will be increased beginning Sept. '56.

Deposit Account

ALL students are required to make a \$10.00 deposit at the time of registration, which amount will be placed to the credit of each stu-

dent. Charges will be made against this deposit for the following reasons:

- (1) Loss or breakage of laboratory, physical education or other school-owned equipment or supplies.
- (2) Library charges not paid by the end of the semester.

The balance in the account will be returned to each student at the end of the second semester, or at such time as he voluntarily discontinues.

Charges for Less than a Semester

NO reduction of charges will be made to any student expelled, suspended, or requested to withdraw on account of misconduct.

If a student withdraws voluntarily and in good standing within two weeks after the first day of enrollment, no charge for tuition and fees, except \$5.00 to cover registration, will be made. If the withdrawal occurs after two weeks but before the end of eight weeks, one-half of the total charge (tuition and miscellaneous fees) will be made. If the student discontinues after eight weeks, there will be no reduction in the semester rate.

Living Expenses

LIVING EXPENSES, including board, room rent, fuel, light, laundry, and text books are from \$750.00 up per year.

HOUSING

Housing for Men

SOME out-of-town men students are accommodated in the campus dormitory. Others are housed in private homes in the vicinity of the college. The cost per semester in the dormitory, including meals at the Commons, is \$281.00 for the student sharing a double room and \$291.00 for the student occupying a single room.

The office of the Dean of Men keeps on file a list of approved rooming places in the community. The cost of these rooms ranges from \$5.00 to \$6.00 per week per person. Out-of-town men students must stay in the dormitory or in a home on the approved list. If the place at which they desire to stay is not on the approved list, they must obtain approval from the Dean of Men before renting the room. Rooming places may be selected during the summer or immediately upon arrival in Grand Rapids for registration. Dormitory application blanks may be obtained by writing to the Dean of Men. These applications should be submitted as early as possible during the summer.

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 must eat at the Commons where the cost for food runs about \$190.00 per semester, depending on changes in food costs.

Housing and Board for Women

ALL out-of-town freshman women students must live in a school housing facility unless working for room and board or living with near relatives. Permission for the latter must be obtained from the Dean of Women.

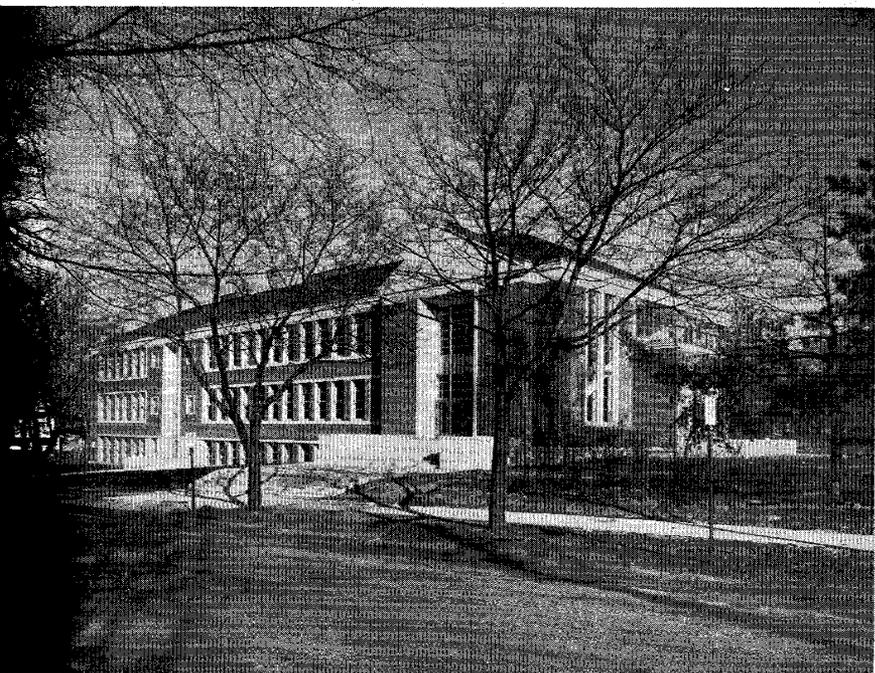
The college operates ten guild homes in the southeast section of the city. These provide housing for freshman women students. These homes are under the direct control of the Dean of Women and each is under the personal supervision of a housemother and student counselors. Each student works out part of her room and board. Net expenses are from \$235.00 to \$286.00 per semester in those in which meals are served; in those in which meals are not served, the room costs \$100.00 per semester and the food cost at the Commons approximately \$190.00 per semester. Application for admission to these homes should be made with the Dean of Women.

Women living in college residence halls need not furnish their own towels, sheets, pillow cases, and blankets. These will be furnished by the college.

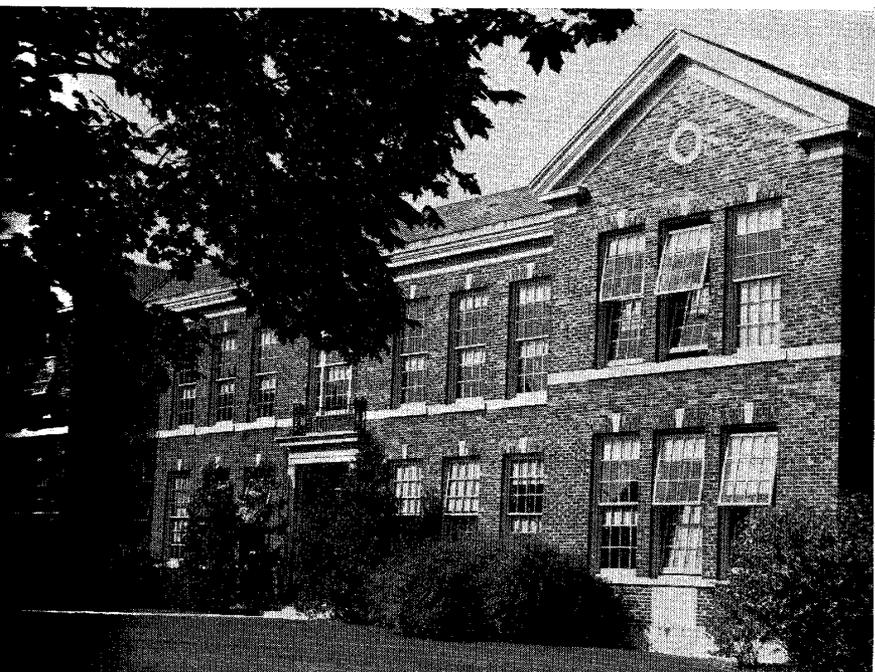
Applicants accepted for admission to residence halls are expected to retain possession of their rooms for one year, and may not move to other living quarters without permission.

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.

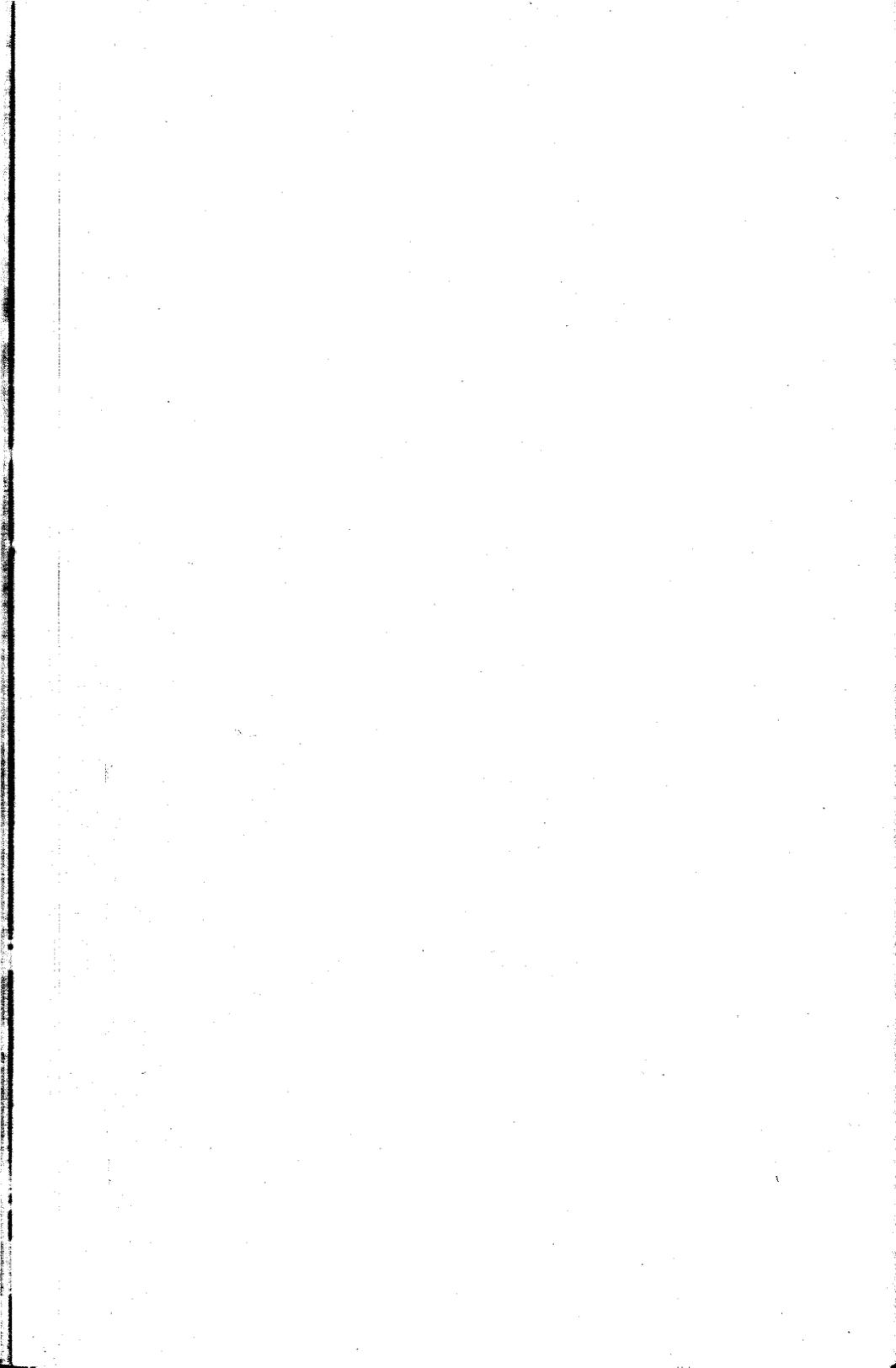
For those women students who are unable to procure admission to a college residence hall, or who wish to live in a private home, the Office of the Dean of Women keeps on file a list of approved rooming places, and will do all in its power to obtain for the student the kind of place desired. A city such 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.



SCIENCE BUILDING



SEMINARY



Apartments

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

Payment for Room and Board

ALL payments for rooms in the college housing facilities and for meals in the Commons are to be made in advance.

At least one-half of the room rent for each semester must be paid at the time of registration and the balance must be paid before the end of the eighth week of the semester.

Payments for meal tickets are to be made in advance and each advance payment must cover at least one quarter of the semester charge.

Payments for room and board in private homes is an arrangement between landlord and student. Students are expected to meet these obligations promptly and when complaints are received because of non-payment they will be handled by the Dean of Men or Dean of Women.

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

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 Executive Board of the Graduate School some member of the graduating class, or some one of its graduates of not more than four years' standing, as a suitable candidate for a State College Scholarship. In each case an alternate may be nominated. All nominations are sent by the college to the Dean of the Graduate School not later than February 15 preceding the academic year for which the recommendation is made; accompanying each should be an official record of the candidate's undergraduate work and three letters of recommendation. The stipend is \$830.00 for two semesters of full-time work.

Students wishing to make application for this scholarship should consult the Registrar of Calvin College not later than January 15.

RHODES SCHOLARSHIP. — Elections to Rhodes Scholarships will be held in all states in December, 1956. Scholars-elect will enter Oxford University in October, 1957. Applications should be in the hands of the secretaries of state committees early in October.

TO BE ELIGIBLE A CANDIDATE MUST:

1. Be a male citizen of the United States, with at least five years' domicile, and unmarried.
2. Be between the ages of nineteen and twenty-five on October 1, 1957.

(A candidate who would otherwise be over the age limit who has had at least 90 days of active service in the Armed Forces of the U. S. A. since June 27, 1950, may deduct the period of his service from his actual age if by so doing he will qualify under the regulations.)

3. By the time of application have at least Junior Standing at some recognized degree-granting college or university in the U. S. A.
4. Receive official endorsement of his college or university.

The value of a Rhodes Scholarship is £600 per year. Scholars who qualify under the G.I. Bill of Rights or other military educational funds may expect the same benefits at Oxford as at an American university. Appointment to a Rhodes Scholarship is made for two years in the first instance with a possible third year if the Scholar's

record at Oxford and plan of study warrant such an award. No restriction is placed upon a Rhodes Scholar's choice of studies. 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 \$250.00 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. Only students of high scholarship rank who may be expected to maintain a good record in college should be nominated by the high school faculty.
3. The recipient should expect to complete a three of four-year course at Calvin.
4. The recipient must have fulfilled regular college admission requirements.
5. The recipient should have been in residence at the high school from which he graduates for at least his junior and senior years.
6. Applications should be in the hands of the Registrar not later than April 15.

FRESHMAN SCHOLARSHIP. — Public High School Graduates.

Calvin College offers a scholarship consisting of \$250.00 to a member of the graduating class in each of *five* accredited public schools of the United States and *two* in Canada, provided:

1. The applicant is a member of the Christian Reformed 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.

Applications should be in the hands of the Registrar not later than April 15.

CALVIN SEMINARY SCHOLARSHIP.— Calvin Seminary, under the authority of the Board of Trustees of Calvin College and Seminary, offers a scholarship consisting of \$300.00 to a member of the graduating class of Calvin College. The award will be made to a student who plans to enter the ministry in the Christian Reformed Church in the fall of the year immediately following his graduation.

Applications should be in the hands of the Registrar on or before April 15.

THE BATTJES FOUNDATION SCHOLARSHIP.— Mrs. Dewey Battjes and her children, through the Battjes Foundation, have offered to award two scholarships, one in the year 1956-57, and one in the year 1957-58, to students entering Calvin Seminary. To receive consideration, a student must have been in residence in Calvin College as a Pre-seminary student for not less than the last three years preceding graduation, though exception may be made for a Calvin College graduate who has spent his first two years in a Christian Junior College supported by our own Christian Reformed constituency.

Pre-seminary seniors should not apply directly for this award, since selection of the recipient shall be made by the Scholarship and Guidance Committee of the College from the list of eligible seniors. Approval of the committee's choice must be given, however, by the College faculty, the Seminary faculty, and the Board of Trustees or its Executive Committee.

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.

ORATORIO SOCIETY TUITION SCHOLARSHIPS IN MUSIC. — Five College tuition scholarships of \$200.00 each are presented by the Calvin College Oratorio Society. These scholarships are limited to four instrumentalists and one vocalist, who can meet College admission requirements, and have records of superior achievement in high school music activities. Recipients will be expected to participate in the scheduled rehearsals and performances of at least one of the following: Calvin College Band, Orchestra, and Chamber Music Ensembles.

Applications for these scholarships should be made with the Chairman of the Music Department, on or before August 1.

VANDER HEIDE VOICE SCHOLARSHIP. — One scholarship is offered annually by Mr. and Mrs. Jan Vender 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.

DR. HARRY KOK MEMORIAL SCHOLARSHIP. — The late Dr. Harry Kok, in his Last Will and Testament, bequeathed to Calvin College certain assets to be used for a scholarship award, made annually to a pre-medical student. The award shall normally be made to a graduate of the four-year pre-medical course. The candidate need not necessarily be a graduate of the pre-medical course in the year in which the award is granted.

“Out of the income received from said property there shall be paid, each year for fifteen (15) consecutive years, [beginning September, 1952] a scholarship of \$400.00 to such male student who has taken his pre-medical work at CALVIN COLLEGE AND SEMINARY and shall be selected by the Board of Trustees thereof, said payment to be made to him upon his matriculation at an accredited medical college which awards the degree of Doctor of Medicine.”

Students interested should consult the Registrar before January 15. Final award need not necessarily be limited to the student who has made formal application.

FULBRIGHT SCHOLARSHIP. — Awards under the Fulbright Act are a part of the educational exchange program of the Department of State. The objectives of this program are to promote better understanding of the United States abroad, and to increase mutual understanding between the people of the United States and the people of other countries.

Eligibility requirements:

1. United States citizenship.
2. A college degree or its equivalent at the time award is to be taken up.
3. Knowledge of the language of the country sufficient to carry on the proposed study.
4. Good health.

Students interested should confer with the college Fulbright Advisor.

GENERAL MOTORS SCHOLARSHIP. — Calvin College has been allocated one scholarship, to be awarded each year under the General Motors College Scholarship Plan. This award is intended for a high school graduate who is seeking admission to Calvin College. The applicant is expected to have outstanding talents, and primary consideration in the award will be given to scholarship, Christian character, personality, and promise of growth. In selecting a candidate for this award the college will apply such standards relating to scholarship and all-round ability as it believes to be in keeping with the objective of the General Motors Plan.

High School graduates who fulfill all requirements for admission and who consider themselves eligible for this award should write for application blanks. Applications should be in the hands of the Registrar on or before April 1.

HERPOLSHEIMER COMPANY SCHOLARSHIP. — The Herpolsheimer Company of Grand Rapids will award one scholarship annually to a graduate of a Grand Rapids or East Grand Rapids high school who is a resident of Grand Rapids or of East Grand Rapids, and plans to attend Calvin College. The scholarship will cover the first year's tuition. The applicants will be judged on the basis of the standards commonly used by the Scholarship Committee in determining recipients of awards. Only students of outstanding ability will be considered. Applications may be obtained from the registrar of Calvin College on or before April 15.

THE KEELER BRASS COMPANY SCHOLARSHIP. — The Keeler Brass Company of Grand Rapids, Michigan is presenting three scholarships \$250.00 each to be awarded to three students who have completed at least one year at Calvin College. The scholarships are limited to men students, preferably Michigan residents. They are not offered annually but at the discretion of the Keeler Fund trustees.

Selecting of the winners for these awards shall be made by the Faculty, on recommendation of its Scholarship Committee, on the basis of (1) previous evidence, while a student at Calvin College, of

earnestness of purpose, (2) scholarship and character and (3) financial need. Men students who plan to enroll as Sophomores, Juniors or Seniors in September 1957 are eligible.

Students interested should file application with the Registrar on or before April 1, although final award need not necessarily be limited to the student who has made formal application. Announcement of the winners will be made at the commencement exercises.

THE KEELER FUND ENGINEERING SCHOLARSHIPS. — The Keeler Fund of Grand Rapids is presenting \$750.00 for three \$250.00 scholarships, to be awarded to students who have completed the three year Pre-Engineering Course at Calvin College and who have been admitted to the University of Michigan School of Engineering with the purpose of satisfying requirements for an engineering degree. Selection of the winners shall be on the basis of scholarship, Christian character, personality, promise of growth, and need. A winner selected by the committee shall receive \$250.00 at the beginning of the first year at the School of Engineering.

Students who are interested should fill in the required application blank in the office at once. Applications will be received up to and including April 20. These scholarships are not offered annually, but at the discretion of the Keeler Fund Trustees.

Detroit Edison Company Scholarship

The Detroit Edison Company offers a scholarship of \$250.00 annually to be awarded to a high school graduate whose residence is in the area served by the Detroit Edison Company. The scholarship is awarded on the basis of scholastic record, character and personality, citizenship, extra curricular activity, seriousness of purpose, and financial need.

Application blanks may be obtained from the Registrar of Calvin College on or before April 15.

Consumers Power Company Scholarship

The Consumers Power Company offers a scholarship of \$200.00 annually to an entering Freshman. The scholarship is good for any course of study selected by the student, but the recipient must live in a Michigan area served by the Consumer Power Company. The winner is to be selected by officials of Calvin College, and applications may be made with the Registrar any time on or before April 15.

Standard Oil Foundation Scholarship

The Standard Oil Foundation provides Calvin College with a scholarship of \$1000.00, one half to be used as a stipend for a student of chemistry, and one half to be used as an award to the Department of Chemistry. The stipend is to be given to an outstanding senior who (a) expects to undertake graduate work in chemistry or chemical

engineering, and (b) has the ability, initiative, and personality to contribute to chemical science or technology in coming years. The award may be used for equipment or books, or in other ways that will help attract and train promising chemistry students. The college is to select the recipient of the stipend.

THE JOHNSON FOUNDATION SCHOLARSHIP — The Johnson Foundation established by S. C. Johnson & Son, Inc. of Racine, Wisconsin has presented to Calvin College the sum of \$1000.00 to provide support for undergraduate students majoring in Chemistry. The scholarship consists of a grant of \$500.00 a year for each of two years. Decisions relating to the award, such as selection of the winner, the class year of the student and other eligibility rules shall be determined by the faculty members of the department of Chemistry.

Prizes and Awards

ALUMNI PRIZE.—The Alumni Association offers an annual prize of \$15.00 based upon scholarship. The award is made for excellence, each year in a different department.

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. The prize will 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.

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 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.

JEWISH EVANGELIZATION PRIZE.— Dr. and Mrs. William J. Yonker, for the year 1956-57 offer a prize of \$25.00 for the best essay and a prize of \$15.00 for the second best essay on a subject bearing on the Evangelization of the Jews. The contest is open to all College students.

THE WILLIAM B. EERDMANS LITERARY AWARDS.— 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.

YOUNG CALVINIST FEDERATION ORATORICAL CONTEST TUITION AWARDS.— THE BERGSMA BROTHERS FOUNDATION of Grand Rapids, Michigan, grants tuition awards to two contestants in the National Oratorical Contest held at the Annual Convention of the Young Calvinist Federation.

To First Place — Two semesters tuition.

To Second Place — One semester tuition.

Contestant must be a member of a Young Calvinist Society which is affiliated with the Young Calvinist Federation. He must participate in League and District run-offs as specified in the regulations. In case the winner is not eligible to enter college, the award is kept in trust up to three years. Schooling of contestants may not exceed High School. If first place winner does not plan to enter Calvin College, the award is granted to the next ranking contestant. Send

for complete details to The Young Calvinist Federation, 44 Ionia Ave., S.W., Grand Rapids 2, Mich.

ZONDERVAN PEACE ORATORICAL PRIZES. — Through the generosity of the Zondervan Publishing Company of Grand Rapids, Michigan, credit vouchers for the purchase of books are awarded annually to the first, second, and third place winners in both the men's and the women's divisions of the Peace Oratorical Contest. In each division the winners of the first, second, and third places are awarded credit vouchers of \$25.00, \$10.00, and \$5.00, respectively. The first prize winners of each division represent Calvin at the annual State Michigan Peace Oratorical Contest.

MULLER FORENSIC AWARDS. — Students who represent the college in the state oratory, extemporaneous speaking, and interpretative reading contests, and students who represent the college in the state debate tournament are eligible for the Muller Forensic Awards. These awards are made in the following manner: for the first year's participation, a silver pin; for the second, a silver pin exchanged for a gold pin; for the third, a ruby is added; for the fourth, two pearls are attached; for the fifth, a diamond is added. If any student represents the college in two activities in one year, he is credited with two awards. These awards were formerly sponsored by the late Mr. William Muller. They are now continued in his memory through the generosity of Mr. Nick B. Muller of Grand Rapids, Michigan.

Student Loan Fund

Students in need of financial assistance to meet tuition, room, or board obligations may apply at the Business Office for a student loan. Preference will be given to upper classmen who have established a good scholastic record and who can demonstrate a real need.

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.

Student Employment Service

A STUDENT EMPLOYMENT SERVICE is operated under the supervision of the Business Office. Students desiring part-time employment may fill in application cards with this service at the

of registration or at the Business Office any time during the year. This office has on file the names of business firms and individuals who are interested in employing students on a part-time basis.

Student Health Insurance

There is available to all students a Group Accident and Sickness Expense Protection Plan. Participation is voluntary. The premium for the period September 4, 1956 to June 4, 1957 is \$12.50. Coverage on a twelve-month basis is available if desired. This program merits serious consideration. Detailed information available at the Business Office.

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.

Students attending Calvin College and Seminary, who are too far from home to attend services there, are expected to transfer their membership to a local church of their own choice; or retain their membership with their home church, but place themselves under the temporary care of one of our Grand Rapids churches. The latter can be done by means of student certificates supplied by the student's own consistory. Either plan must be effected during the first eight weeks of school.

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 65,000 volumes, to which about 4,500 are added yearly. More than 580 different periodicals are received. The recently enlarged building provides seating for some 225 students, and houses the Cayvan Collection of 7,000 phonograph records. The library is open from 7:45 A.M. to 9:30 P.M., Monday through Friday, and from 7:45 A.M. to 12:15 P.M. on Saturday, during the school year. Vacation hours from 8:00 A.M. to 5:00 P.M., Monday through Friday.

Required Physical Education

PHYSICAL EDUCATION is a requirement for all Freshman and Sophomore students. Classes meet once a week and assignments are made during registration. Attendance at all classes is required and exemptions from this requirement are permitted only upon the written request of the campus nurse or upon the written consent of the Dean of the college.

While no academic credit is given for this work, semester grades "Cr." (Credit) or "F" (Failure) will be given, based on the student's skills, knowledge, attitude, and attendance.

Health Center

THE college provides limited health and medical service for all students. The fee for this service is incorporated in the tuition charge. The Health Center is located on the ground floor of the Dormitory Building. Its facilities consist of examination room, dispensary, men's sick bay, and women's sick bay. The health service is staffed by the Campus Nurse and by the Campus Physician. The former is on full-time duty; the latter will schedule three consultation hours per week. The service is limited to out-patient treatment. All serious medical problems will be referred to the student's family physician (in the case of in-town students) or to a physician of the student's own choice.

Attendance

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

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

The mark E can be removed only by a re-examination passed with a grade of C or better. The final semester grade, however, will not be higher than C. 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 X will be given. This mark must be removed by taking the examination at the time scheduled for re-examination.

Incompletes

The mark I 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 I 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 I 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 of the College 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 the removal of conditions are held on the first Monday of the school year, and on the first Friday and Saturday after the spring vacation.

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

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

Dropping and Changing of Courses

AFTER a student has enrolled for a study, he may not drop it without written permission of the Dean of the College. 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 of the College.

Class Visitors

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

Dismissal

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

Use of Automobiles

ALL automobiles operated by students to and from college must carry an official college automobile permit, and they may be parked only in approved parking spaces in the vicinity of the campus.

Freshmen living under college supervision, either in college residences or in approved private homes, are not permitted to have or maintain automobiles for personal use while at college, except if married or at least 23 years of age. Freshmen living at home with their parents are advised not to maintain automobiles for personal use as students at Calvin. However, when the use of an automobile by such freshmen is clearly necessary for distant commuting or other special reason, they may, upon application, obtain a college automobile permit.

All sophomores, juniors, seniors, and unclassified students may apply for college automobile permits. It is within the discretion of the college administration to disqualify any applicant by reason of demonstrated academic or financial deficiency. The fee for each permit is \$2.00.

Students are not permitted to park on campus on school days before 4:30 p.m. The college maintains a parking lot east of the campus on Franklin Street for student use. Parking is also permitted in certain places on the streets in the vicinity of the campus. Students are held responsible for full knowledge of these approved parking places.

The use of automobiles not properly registered, as well as all parking violations, will be dealt with by means of established financial penalties, and also, if necessary, by stringent action of the Discipline Committee.

REQUIREMENTS FOR GRADUATION

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

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

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

The subjects are listed as follows: Art, Bible, Biology, Chemistry, Dutch, Economics, Education, Engineering, English, French, Geography, German, Greek, History, Latin, Mathematics, Music, Philosophy, Physical Education, Physical Science, Physics, Political Science, Psychology, Sociology, and Speech.

All prescribed freshman and sophomore courses must be completed in the first two years.

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

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

General College

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

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

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

	<i>Hours</i>
Bible, 105, 106, 201, 202, 301	10
English 103, 104	6
History	6
Philosophy (not including Logic)	6
Natural Science, Biology 109, 110 and Physical Science 205, 206	12
Foreign Language	(see following explanation)

FOREIGN LANGUAGE REQUIREMENTS

- a. Students will be required to complete the equivalent of **two** years (four semesters) of one foreign language and **one** year (two semesters) of a second foreign language. **One** of these must be an ancient language and the other a **mod-ern** language.
- b. Students who have earned credit for foreign language **in** high school may have this credit applied toward the **ful-**fillment of the college language requirement. For the **pur-**pose 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.
- c. The student is advised to make his choice of foreign **lan-**guage, in consultation with the Dean of the College.
- d. The foreign language requirements must be completed by **the** end of the sophomore year.

4. DISTRIBUTION OF WORK. MAJORS AND MINORS.

All students pursuing the course leading to a General A. B. **de-**gree, *must, not later than the beginning of their junior year, apply to the head of the department of their selection for permission to major or to concentrate in that department.* The department head, on accept-**ing** the application, will outline the student's program of major **and** supporting courses.

To insure proper distribution of the student's work, the **subjects** have been divided into three groups, as follows:

- Group I. Art, Dutch, English, French, German, **Greek,** Latin, Music, Speech.
- Group II. Biology, Chemistry, Geography, Mathematics, Physics, Psychology.
- Group III. Bible, Economics, Education, History, Philosophy, Political Science, Sociology.

The student must distribute the total 125 hours (including **those** prescribed) among the three groups, complying with the follow-**ing** restrictions:

- a. The student must choose one of these three groups as **his** major and another group as his minor.
- b. In his major group the student must choose two **subjects,** in one of which he completes a sequence of at least twenty-four hours, or as specified by the department, and in the **other** of which he completes a sequence of at least twelve hours (**or** fifteen hours if he desires a Teachers' Certificate). The **total** number of hours required in the major group is, therefore, at least thirty-six, except for music.

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.

At least one-half of the work taken in residence beyond the sophomore year must be in courses not open to freshmen.

DEGREE. On satisfactory completion of this course, the student will receive the degree of bachelor of arts. If he has met all requirements of this course and has completed 60 or more hours of work in Group II he may elect to receive the degree of bachelor of science or bachelor of arts.

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 set by the Michigan State Department of Education are: Psychology 201-202; Education 203; Education 314, or 315, or 317; a methods course; and Education 343 or 344, a total of at least 20 semester hours of Education in addition to Psychology 201.

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. 53.)

Prospective elementary school teachers must arrange their programs so as to complete either a major and two minor sequences, or two minor sequences. (See under Education, p. 54.)

Seminary

See note regarding Pre-Seminary entrance requirements under Section 2A, page 24 NOTE.)

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

GRADE OF WORK. The student must obtain a total of 125 credit points; in other words, he must receive an average grade of C. In addition, the faculty's recommendation for admission to Calvin Seminary, the student must obtain one and two-thirds as many honor points as hours of credit, effective as of September 1954.

3. PRESCRIBED WORK. The following 118 hours of work are prescribed:

	<i>Hours</i>		<i>Hours</i>
Bible 201, 202, 301, 302.....	8	History 101, 102	6
Biology 210, 306	4	Latin 201, 202, or 307, 308	6
Dutch Language	20	Phil. 200 (Logic).....	3
Dutch History 326.....	3	Philosophy 300, 301, 302.....	9
Economics 201, 202.....	6	Physical Science 205, 206.....	6
Education 301	3	Psychology 201	3
English incl. 103, 104.....	12	Speech 103, 104, 205.....	6
Greek 101, 102, 201, 202, 313, 314.....	20	Sociology 203	3

This schedule has been arranged for students who have had two years of Latin in high school, but no German.

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
English 103	3	English 104	3
*German 101	4	*German 102	4
History 101	3	History 102	3
Latin (see page 87) 3 or	4	Latin (see page 87) 3 or.....	4
Speech 103	2	Speech 104	2
	<hr/> 16		<hr/> 16

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 201	2	Bible 202	2
Dutch 101	4	Dutch 102	4
Greek 101	4	Greek 102	4
Physical Science 205	3	Philosophy 200	3
Psychology 201	3	Phys. Science 206.....	3
	<hr/> 16		<hr/> 16

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Biology 210	2	Biology 306	2
Dutch 201	3	Dutch 202	3
English 201, 203, or 309.....	3	Dutch History 326	3
Greek 201	3	English (continued)	3
Sociology 203	3	Greek 202	3
Speech 205	2	Philosophy 300	3
	<hr/> 16		<hr/> 17

*A student who has had two years of German in high school should take Dutch 101 and 102 in his Freshman year.

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
	Hours		Hours
Bible 301	2	Bible 302	2
Dutch 305	2	Dutch 306	2
Economics 201	3	Economics 202	3
Education 301	3	Greek 314	3
Greek 313	3	Philosophy 302	3
Philosophy 301	3		
	16		13

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.

Courses of study for those students who intend to prepare for special fields of Education, such as work with atypical children, may be planned with the Dean of the College.

1. AMOUNT AND GRADE OF WORK. 125 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.

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, selected from the following subject matter areas:

Art	French	Latin
Biology	Geography	Mathematics
Chemistry	German	Music
Economics-Sociology	History	Physics
Economics	History -	Physical Education
English	Polit. Science	Speech

One of the two minors required may be selected from the following:
 Philosophy Psychology Sociology

b. Subject Requirements:

	Hours
(1) Bible 105-6, 201-2, 301	10
(2) Biology 109-10	6
(3) English 103-4	6
(4) History	6
(5) Psychology 201	3
(6) Speech 103 or 104.....	2
(7) Foreign languages.....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 requirements, 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 of the College.

This foreign language requirement must be completed by the end of the sophomore year.

- (8) Education courses20 hours
 - (a) Psychology 202 (Sophomore year)
 - (b) Education 203 (Sophomore year)
 - (c) Education 314 (Junior year)
 - (d) One methods course from Education 307, 310, 324, 328, 340, 330m (Junior year) 2 or 3 hours
 - (e) Education 344: Directed Teaching, including Observation and Participation (Senior year) 8 hours

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
- (e) Adequate preparation in major subject matter field

3. COURSE REQUIREMENTS FOR PROSPECTIVE ELEMENTARY TEACHERS: (Kindergarten through Grade 8)

a. Prospective elementary teachers have two opinions in the selection of majors and minors:

1. An elementary teacher should preferably select four minors as follows:

- (1) English studies: 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).

2. An elementary teacher may also select a major and two minors. In this case, two of the subject fields taken for major or minor must be in fields taught in the elementary school. Also, certain requirements for the four minors must be met.

b. Subject Requirements:

	<i>Hours</i>
(1) Bible 105-6, 201-2, 301.....	10
(2) Biology 109-10	6
(3) English 103-4	6
(4) History	6
(5) Psychology 201	3
(6) 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 of the College.

This foreign language requirement must be completed by the end of the sophomore year.

- (7) Education courses20 hours
 - (a) Psychology 202 (Sophomore year)
 - (b) Education 203 (Sophomore year)
 - (c) Education 315 or 317 (Junior year)
 - (d) One methods course from 220, 307, 310, 324, 340, 322 (Junior year)2 or 3 hours
 - (e) Students planning to teach in a Christian School must add Education 220, 222, and 322
 - (f) Education 343: Directed Teaching, including Observation and Participation.
 - (g) In addition to these subjects prospective elementary teachers are urged to include in their courses:
 - 1) Art 228 (no credit) and Art 201.... 3 hours
 - 2) Geography 105 or 106 3 hours
 - 3) Education 318, 225, and 324 8 hours
 - 4) Speech 103 or 104 or Educ. 225.... 2 hours

Prerequisites for Education 343 (Directed Teaching)

- (a) Grade of work equivalent to C+
- (b) Principles of Education (315 or 317)
 - (3) Grade of work equivalent to C+
 - (b) Principles of Education (315 or 317)
 - (c) Educational Psychology (202)
 - (d) Methods course:

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 successfully for three years.
- b. They have earned ten additional semester hours of credit.

5. RESPONSIBILITY FOR THE CONVERSION OF A PROVISIONAL CERTIFICATE to a Permanent Certificate rests with the teachers, not with Calvin College.

Pre-Medical and Pre-Dental

(See note regarding pre-Medical entrance requirements under Plan A, page 24, Note.)

1. AMOUNT OF WORK. The student must complete 94 hours of work.

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

3. PRESCRIBED WORK. The following courses are prescribed:

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 105	2	Biology 110	3
Biology 109	3	Chemistry 104	4
Chemistry 103	4	English 104	3
English 103	3	Mathematics 104	3
History 101 or 205	3	History 102 or 206	3
	15		16

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Biology 201	4	Biology 208	4
Chemistry 201	4	Chem. 202 or elective	4
Foreign Language	4	Foreign Language	4
Physics 201	4	Physics 202	4
	16		16

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 201	2	Bible 202	2
Bible 301	2	Biology 306	2
Biology 207	3	Biology 312	3
Biology 311	2	Chemistry 302	4
Chemistry 301	4	Elective	4
Psychology 201	3		
	16		15

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.

For admission to the University of Michigan School of Medicine, the foreign language requirement may be met by one college year in any of the following languages: French, German, Spanish, Latin, or Greek. High school credits in languages will not be acceptable in lieu of this requirement or any part of it.

Students desiring to enter a medical school other than that of the University of Michigan should consult the catalog of the institutions for foreign language requirements.

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. For their electives students should choose such subjects as are required for admission to the medical or dental 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, or on the combined curriculum plan in letters and dentistry. He will receive this degree after one year of successful work in a recognized medical or dental school. An average record of 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 Class A medical schools an average grade equivalent to two honor points per semester hour of credit is required.

3. **PRESCRIBED WORK.**

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

4. **DISTRIBUTION OF ELECTIVES.** 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.

Three-Year Pre-Law

(See note regarding pre-Law entrance requirements under Plan A, page 24, 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 ob-

tain 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:

<i>Freshman Year</i>			
FIRST SEMESTER	<i>hours</i>	SECOND SEMESTER	<i>hours</i>
Bible 105	2	Bible 106	2
English 103	3	English 104	3
Mathematics or Science	3	Mathematics or Science	3
Political Science	3	Philosophy 200, Logic	3
Psychology 201	3	Political Science	3
Speech	2	Speech	2
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16

<i>Sophomore Year</i>			
FIRST SEMESTER	<i>hours</i>	SECOND SEMESTER	<i>hours</i>
Bible 201	2	Bible 202	2
Economics 201	3	Economics 202	3
French or German	4	French or German	3
His. 313, Eng. Const.	3	His. 314, Eng. Const.	3
Political Science	3	Political Science	3
	<hr style="width: 50%; margin: 0 auto;"/> 15		<hr style="width: 50%; margin: 0 auto;"/> 15

<i>Junior Year</i>			
FIRST SEMESTER	<i>hours</i>	SECOND SEMESTER	<i>hours</i>
Bible 301	2	Economics 306	4
Economics 305	4	English	3
English	3	History 302	3
History 301	3	History 3312	3
Political Science 303	3	Political Science 304	3
	<hr style="width: 50%; margin: 0 auto;"/> 15		<hr style="width: 50%; margin: 0 auto;"/> 16

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.

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.** 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.

The requirement for admission to the Law School of the University of Michigan is graduation from an approved college.

Four-Year Pre-Law

(See note regarding pre-Law entrance requirements under Plan A, page 24, 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, 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 an average of B.

3. **PRESCRIBED WORK.** Of the 125 hours required, certain hours are prescribed as follows:

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 105	2	Bible 106	2
English 103	3	English 104	3
History 101 or 205	3	History 102 or 206	3
*Mathematics 101	3	Pol. Science	3
Political Science	3	Psychology 201	3
Speech 103	2	Speech 104	2
	16		16

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Economics 201	3	Economics 202	3
English	3	English	3
French or German	4	**French or German	4
Phil. 200, Logic	3	Phil. 300, Ancient	3
Science	3 or 4	Science	3 or 4
	16 or 17		16 or 17

* 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.

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 201	2	Bible 202	2
Econ. 305	4	Econ. 306	4
Hist. 307 or 301	3	Hist. 308 or 302	3
Hist. 313	3	Hist. 314	3
Pol. Science 303	3	Pol. Science 304	3
	15		15

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 301	2	Hist. 316	3
Econ. 303	3	Hist. 312	3 or 4
Hist. 315	3	*Math. 206	3
Hist. 311	3	Phil. 302	3
Phil. 305	3	Soc. 203, 304, or 306	3
Speech	2		
	16		15 or 16

* Before taking Math. 206, the student should make it a point to take Math. 205 or another prerequisite, satisfactorily 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 of the College. 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		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Chemistry 103	4	Engineering 102 (Drawing)	3
Engineering 101 (Drawing)....	3	Chemistry 104	4
English 103	3	English 104	3
Mathematics 201	5	Mathematics 202	5
	—	Speech 103	2
	15		—
			17

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 105	2	Bible 106	2
Engineering 205	3	English 202 or 204	3
(Engineering Materials) ..	3	Mathematics 302	5
Mathematics 301	5	Physics 204	6
Physics 203	6		—
	—		16
	16		

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 301	2	Economics 307	3
Economics 203	3	Engineering 304 (Str. of	4
*Engineering 207	2 or 3	materials)	4
(Surveying)	2 or 3	Engineering 306	3
Engineering 301 (Statics)....	3	(Dynamics)	3
**Mathematics 304	2	Philosophy 202	3
Philosophy 201	3	Elective	4
Elective	1 or 2		—
	—		17
	16 or 18		

*Civil Engineering students should take three hours of Surveying.

**Electrical and Aeronautical Engineering students should take Mathematics 304.

THREE-YEAR CHEMICAL PRE-ENGINEERING COURSE

Freshman Year

The same subjects as the three-year general pre-engineering course above.

Sophomore Year

The same subjects as the three-year general pre-engineering course above.

Junior Year

The subjects should be chosen in consultation with the student's adviser.

NOTE: Pre-Engineering students are urged to complete Advanced Algebra and Trigonometry in high school to avoid delaying the above programs.

Electives must be chosen in consultation with the Dean of the College or the adviser.

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

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

Abbreviated Pre-Engineering Course

For a student who is unable to take more than two years at Calvin College, a two-year program will be arranged to satisfy, as nearly as possible, the requirements of the Engineering School which he plans to attend. This program must be arranged with either the Engineering Course Adviser or the Dean of the Collegee.

Pre-Business Administration

FOR STUDENTS interested in Business Administration the following subjects are suggested for the first two years:

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 105	2	Bible 106	2
Biology 109	3	Biology 110	3
English 103	3	Economics 103 or	
History 101	3	Math. 202	3 or 5
Math. 101 or 201 or Pol.		English 104	3
Sci. 101	3 or 5	History 102	3
	14 or 16		14 or 16

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 201	2	Bible 202	2
Economics 201	3	Economics 202	3
English 201 or 203	3	English 202 or 204	3
Mathematics 205	3	Mathematics 206	3
Psychology 201	3	Philosophy 200, Logic	3
Speech 103	2	Speech 104	2
	16		16

This program is arranged for the convenience of the student who does not plan to continue at Calvin College but who desires to earn his Bachelor of Business degree at one of the universities. For such a student, transfer from Calvin College to the university at the end of the sophomore year is desirable. This is true also for those who plan to transfer to the University of Michigan. After September,

1957, the University of Michigan will require the student to take at least 45 hours at the School of Business Administration to qualify for the B.B.A. degree.

Since the emphasis in the professional schools today is upon a broad liberal arts training, the student should consider the advisability of remaining at Calvin College for four years and transferring to the university after he receives his A.B. degree. He can then enroll in the Master of Business Administration program at the university. This kind of preparation for a business career is highly recommended by Business Administration School officials.

If the student decides to work for his bachelor's degree at Calvin College, he should follow the General A. B. degree program and he should make certain that he meets his language requirements, if possible, in the first two years. He should plan his work so as to complete a major in Business Administration, as outlined below.

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. 49). To complete the major group requirements they should elect 24 hours in Economics and 12 hours in another department listed in Group III (see p. 50). They may elect to complete their minor group requirement by selecting subjects either in Group I or in Group II. The 24 hours in Economics must include Economics 201 and 202 and Economics 305 and 306.

Students desiring to receive a master's degree in Business Administration at the University of Michigan, after receiving a bachelor's degree from Calvin College, can do so by successfully completing a maximum of one year and one summer at the School of Business Administration of the University of Michigan.

Major in Music

CANDIDATES for the A.B. degree in the General College Course or in the Education Course may select music as a major field. The following requirements apply:

- a. The general course requirements as prescribed for either the General College Course (see p. 49) or the Education Course (see p. 53).
- b. Sufficient proficiency at the piano to pass a sight reading examination.
- c. Participation in at least one music ensemble (choir, band, or orchestra) each semester.

- d. The following courses in basic musicianship:
- | | |
|---------------------------------------|----------|
| Music 103-104, 203-204 (Theory)..... | 12 hours |
| Music 305-306 (History of Music)..... | 6 hours |
- e. The specific course requirements for one of the following five areas of concentration in music:

1. MUSIC HISTORY AND LITERATURE

Advanced Courses in the Hist. & Lit. of Music.....	12 hours
*Applied Music	8 hours
Electives in music.....	2-4 hours

2. MUSIC THEORY

Advanced Courses in Music Theory.....	12 hours
*Applied Music	8 hours
Electives in music.....	2-4 hours

3. SOLO INSTRUMENT OR VOICE

**Applied Music (Private lessons in 1 instrument or voice).....	up to 16 hours
Electives in music.....	6-8 hours

4. INSTRUMENTAL MUSIC EDUCATION

Music 315-316 (Arranging).....	6 hours
Music 313-314 (Conducting).....	2 hours
Music 213-214 and/or 215-216 (Band and/or Orchestra) (Participation in at least one each semester)	8 hours
Music 333 (Teaching of Instrumental Music)....	3 hours
Proficiency on secondary instruments and voice equivalent to two semesters each on string, woodwind, and brass instruments and one semester on percussion instruments and voice.	

5. VOCAL MUSIC EDUCATION

Music 107-108 and/or 207-208 (Choir).....	8 hours
(Participation in at least one each semester)	
Music 117-118, 217-218 (Voice).....	4 hours
Music 222 or 331 or 332 (Methods of teaching)..	3 hours
Music 313-314 (Conducting).....	2 hours
Music 141-142 or equivalent (Piano).....	2 hours
Electives in music.....	3-5 hours

*More than 8 hours of applied music may be taken but only 8 will be credited toward degree requirements.

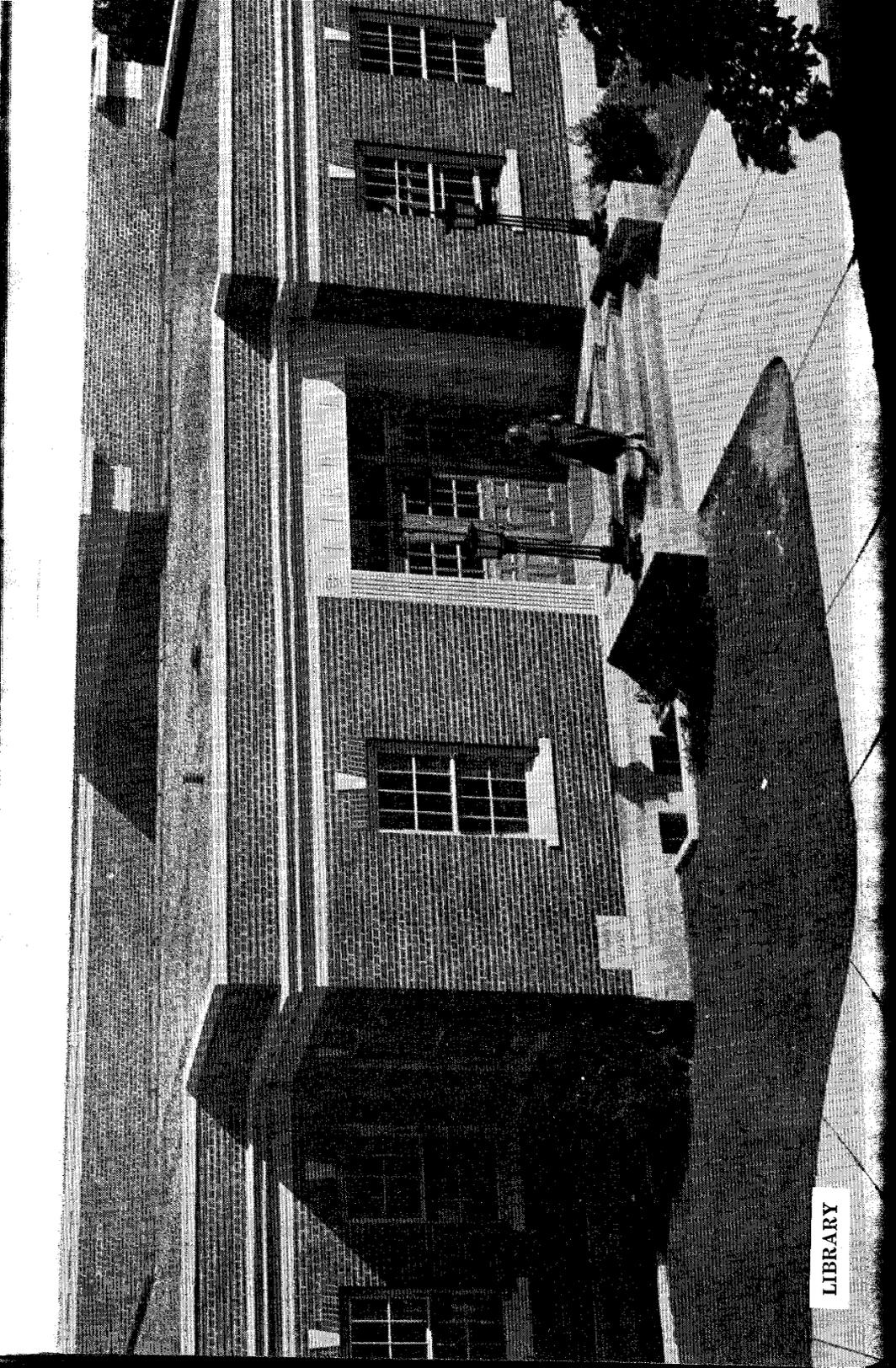
**More than 16 hours of applied music may be taken but only 16 will be credited toward degree requirements.

Candidates for the A.B. degree in the Education Course must elect either the concentrate in Instrumental Music Education or the concentrate in Vocal Music Education.

Candidates for the A.B. degree in the General College Course may elect any one of the five areas of concentration given above. If they choose Instrumental Music Education or Vocal Music Education they will be expected to complete the requirements for the Michigan State Teacher's Certificate (see p. 53) in addition to the requirements given under "A" through "E" above.



MEN'S DORMITORY



LIBRARY

In order to allow for the 40-42 hours required for the major in music the student should begin with Music 103-104 in his freshman year, pass the piano examination early in his course and choose his minor fields with care.

More detailed information may be had by writing to the Chairman of the Music Department for the "Music Department Handbook."

CHURCH MUSIC

Students who are interested in a career in church music should plan to do graduate work in this field. Undergraduate preparation should consist of the Concentrate in Organ. In addition the student should elect Music 303-304 (Counterpoint), Music 219-220 (Church Music), Music 313-314 (Conducting), and Music 117-118 (Voice).

Minor in Music

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

Music 103-104 (Theory).....	6 hours
Music 211-212 (Music Literature)	
or	
Music 305-306 (Music History).....	6 hours

Concerts and Tours

There are several musical organizations at Calvin College, offering the student opportunity for singing or playing.

The Oratorio Society, 400 to 500 voices, has a long tradition of presenting Handel's *Messiah* at Christmas time, and another oratorio such as the *Elijah* or the *Creation* each spring.

The A Cappella Choir of 65 selected voices is well known throughout the United States and Canada through the annual tours taken during spring vacation. Usually the choir appears in fifteen or more concerts.

The Radio Choir is nationally known for its singing on the "Back to God Hour" broadcasts each Sunday. This choir also engages in an annual tour.

The College Orchestra plays the orchestral accompaniment to the oratorios and plays at least one full concert during the school year.

The College Concert Band plays many concerts in and around Grand Rapids and goes on a tour to the East or West during the spring vacation.

Students interested in chamber music may participate in weekly readings of works from the Cayvan Music Library, using the Cayvan Collection of fine old stringed instruments.

Pre-Agriculture, Pre-Forestry, Pre-Home Economics, and Pre-Occupational Therapy

STUDENTS interested in specializing in the fields mentioned above should see the Dean of the College. Curricula can be arranged to enable such students to remain at Calvin for one or two years.

Nursing Course

The Nursing Courses at Blodgett Memorial Hospital and Butterworth Hospital in Grand Rapids, Michigan are 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	<i>hours</i>	SECOND SEMESTER	<i>hours</i>
Bible 105	2	Biology 106	2
Biology 105	3	English 104	3
English 103	3	Psychology 201	3
Chemistry 101N	4	Nutrition	3
Nursing Arts including		Pharmacology	1
Hygiene (Hospital)	2	Nursing Arts (Hospital)	2
Biology 107	4	Prof. Adjust. I (Hospital)	1
	<hr style="width: 10%; margin: 0 auto;"/> 18		<hr style="width: 10%; margin: 0 auto;"/> 15

Upon completion of these two semesters and an additional twenty-seven months of clinical experience at Blodgett Memorial or Butterworth 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 or at Butterworth Hospital with the Director of the School of Nursing, before August 1.

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:

	<i>Hours</i>
Bible (including 301)	6
English Composition and Rhetoric.....	6
English or American Literature.....	6
History	6
Psychology	6
Sociology, Intro.	3
Sociology Problems or The Family.....	3
Philosophy (not incl. Logic	3
*Ancient Language	8
Chemistry (Inorganic) 103 and 104.....	8
Organo-Biochemistry 303 and 304.....	8
Human Anatomy and Physiology.....	5
General Biology	6
Microbiology	4
Introduction to Embryology.....	4
Biological Problems	2
Pharmacology	1
Nutrition	3
	88

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

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

The student must:

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

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

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

The required college courses in the program are the following:

	<i>Hours</i>
Bible (including 301).....	6
English Composition and Rhetoric.....	6
English or American Literature.....	6
History	6
Psychology	6
Sociology (Introduction or Problems).....	3
Philosophy (Introduction to)	3
*Ancient Language	3
Chemistry (Inorganic) 103 and 104.....	8
Organo-Biochemistry 303 and 304.....	3
Human Anatomy and Physiology.....	5
General Biology	6
Microbiology	4
Microscopic Technique	1
Biological Problems	2
Histology	4
Parasitology	4
Elective	8
	94

SUGGESTED PROGRAM

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Biology 105	3	Biology 106	2
Biology 109	3	Biology 110	3
Chemistry 103	4	Chemistry 104	4
English 103	3	English 104	3
*Latin or Greek 101	4	*Latin or Greek 102	4
	17		16

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 201	2	Bible 202	2
Biology 107	4	Biology 304	1
Chemistry 303	4	Elective	2
History 101	3	Chemistry 304	4
Psychology 201	3	History 102	3
	16	Sociology 204	3
			15

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
	<i>hours</i>		<i>hours</i>
Bible 301	2	Biology 306	2
Biology 307	4	Biology 308	4
Elective	3	Elective	3
English 201 or 203	3	English 202 or 204	3
Philosophy 201	3	Psychology 212	3
	15		15

* 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.

DESCRIPTION OF COURSES

Art

INSTRUCTOR VAN LAAR

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 *Three hours*
A course in art education in the elementary school. The areas of drawing, values, color, design, lettering and poster work are studied. The student is taught to develop skill in the manipulation of different art media, and given some knowledge of teaching methods relevant to art.
202. HANDICRAFT *Three hours*
The course aims to give the student ideas in the field of craft problems related to the elementary grades. It requires work in clay modeling, weaving, and block printing.
228. PENMANSHIP
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. Not offered in 1956-57.
232. AN INTRODUCTION TO THE HISTORY OF THE FINE ARTS *Three hours*
Continuation of 231. (1600 to the present.) Not offered in 1956-57.
331. FLEMISH PAINTING *Three hours*
A course in the Flemish and Dutch primitives and Italianizers, followed by a discussion of the Flemish Renaissance painters with emphasis on Rubens and Van Dyck. The course is analytical as well as historical. Lectures, collateral reading, and reports. Not open to freshmen. Not offered in 1956-57.
332. DUTCH PAINTING *Three hours*
A course in Dutch painting from the Renaissance to modern times. The emphasis is placed on the seventeenth century. Lectures, collateral reading, and reports. Not open to freshmen. Not offered in 1956-57.

Bible

PROFESSOR BRATT; ASSOCIATE PROFESSORS VAN TIL, WEIDENAAR AND HOEKEMA; REV. VAN HALSEMA.

Students who contemplate a major in Bible should confer with a member of the departmental staff before the beginning of their junior year.

105. OLD TESTAMENT *Two hours*
A survey 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 Savior. Various O.T. books are selected for special study. Lectures and collateral readings.

106. NEW TESTAMENT

Two hours

A companion course to 105. Events of the Intertestamentary period are sketched with particular reference to the coming of the gospel; the principal events and teachings of Christ are treated; and the origin and early expansion of the Christian Church is surveyed. Various N.T. books are selected for special study. 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

Two hours

Continuation of 201.

203. PRINCIPLES OF MISSIONS

Three hours

This course begins with a survey of the most pertinent Biblical data pertaining to missions. From this data and the system of Reformed Doctrine, in general, the principles of missions are developed with appropriate reference to both message and method, bringing into view the work of missions both at home and abroad. Not open to Freshmen. At least one semester of Reformed Doctrine is a prerequisite. Not offered in 1956-57.

204. HISTORY OF MISSIONS

Three Hours

The record of missionary history throughout the ancient, medieval and modern periods is examined with a view to ascertaining the principles that come to expression, the methods employed, the areas covered, the chief figures, and the measure of success and failure. In the modern period the major revivals in America receive some attention. Not open to freshmen. Not offered in 1956-57. Qualified juniors and seniors may take the parallel course in the Seminary with college credit.

205. ENVIRONMENTAL EVANGELISM

Two hours

The duty of the particular church to evangelize the surroundings; the urgency of the task in view of prevalent apostasy, indifference to and ignorance of the truths of Christianity; specific message and aim of the work; and the most effective method of reaching the various strata of society. Taught only in the Seminary. Open to qualified juniors and seniors.

301. STUDIES IN CALVINISM

Two hours

An inquiry into the origin and nature of Calvinism, its influence upon the development of religion and political life, as well as the proper application of its principles to these spheres. The course consists of lectures, assigned readings, and essays. Open to juniors and seniors.

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. GENERAL CHURCH HISTORY

Three hours

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

304. AMERICAN CHURCH HISTORY

Three hours

A consideration of the religious history of our country from the emigration period to the present. Attention will be paid to the European background, the early church beginnings in their diversity, the colonial era, the westward movement, and the major social and political developments in their influence upon the American religious scene. Not open to pre-Seminary students.

- 305. CALVINISM IN THE NINETEENTH CENTURY** *Three hours*
A study of the development of historic Calvinism during the Nineteenth Century, noting the progress (or lack of progress) which Calvinism has made in the various Calvinistic countries, particularly in non-ecclesiastical spheres. Not offered in 1956-57.
- 306. HISTORY OF THE CHRISTIAN REFORMED CHURCH** *Three hours*
The historical antecedents and the development of the Christian Reformed Church in America. Not open to pre-Seminary students.
- 307. REFORMED CONFESSIONS** *Three hours*
A study of the creeds in their Biblical basis, historic origin, doctrinal deliverances and practical value as to faith and order.
- 308. REFORMED THEOLOGY AND THE MODERN THEOLOGICAL SITUATION** *Three hours*
In this course the Reformed Faith will be set over against modern deviations and defections from the faith. The 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.
- 309. CHRISTIAN EVIDENCES** *Three hours*
A study of the evidences of the truths of Christianity as found in the records of the Old Testament with its revelation, miracles and prophecies, in the gospel record of the supernatural and vicarious life and death and resurrection of Jesus Christ; and the confirmation of the truth of Christianity as a supernatural force in history.
- 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. Open to juniors and seniors who have taken 201 and 202.

Biology

PROFESSOR MONSMA; ASSOCIATE PROFESSOR KARSTEN; ASSISTANT PROFESSOR BENGELINK; MR. GEBBEN AND MR. TEN BROEK.

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

General College requirements (see p. 49), omitting Physical Science 205 and 206.

Biology 109 and 110, 105 and 106, 203 and 204, 207, 306, and 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.

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

General College requirements (see p. 49), omitting Physical Science 205 and 206.

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

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:

1. Botany and Bacteriology: Biology 109 and 110, 203 and 204, 207 and 306.
2. General Biology: Biology 109 and 110, 103, 105 and 106, 207, and 306.
3. Human Biology: Biology 109 and 110, 103, 105 and 106, 308, and 311.
4. Zoölogy: Biology 109 and 110, 201, 206, 208, 307, 308, and 311.

D. For Students preparing to teach *Science Subjects* in a 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. 49), omitting Physical Science 205 and 206.

Education requirements for a Provisional Certificate (p. 53).

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 203 and 204, and 304.

103. PERSONAL HYGIENE *Three hours*
The proper care of our bodies and approved practices for the prevention of disease are studied.
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.
106. HUMAN ANATOMY AND PHYSIOLOGY *Two hours*
Continuation of course 105. Lectures and quizzes.
107. PRINCIPLES OF MICROBIOLOGY *Four hours*
The history of Microbiology and the cultural and morphological characteristics of bacteria, yeasts, and molds are considered. Special emphasis is placed on communicable diseases. This course is adapted to pre-nursing students, but is open to all others. Three hours of lectures and quizzes. One laboratory period a week.
109. GENERAL BIOLOGY *Three hours*
An introductory study of the basic principles of the various divisions of biology with emphasis upon the broad cultural aspects of this science. Two lectures and one laboratory period a week. Offered both semesters.
110. GENERAL BIOLOGY *Three hours*
Along with course 109 this course constitutes a six-hour course in general biology. It may be taken either before or after 109. Offered both semesters.
201. INVERTEBRATE ZOÖLOGY *Four hours*
Anatomy, physiology, behavior, and classification of animals representative of the invertebrate groups. Insects and disease-causing forms are emphasized. Three hours of lectures, reports, and recitations; and three hours of laboratory work per week. Prerequisites: Biology 109-110.
203. GENERAL BOTANY *Four hours*
Anatomy and physiology of seed plants. Three recitations and one laboratory period a week. Prerequisite: Biology 109 and 110.

- 204. GENERAL BOTANY** *Four hours*
 This course with course 203 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.
- 206. NATURAL HISTORY** *Three hours*
 A study of the classification, identification, appearance, and habits of animals which are more commonly met near our homes, in zoological parks, or on pleasure trips. Birds and fur-bearers will receive special consideration. The course consists of lectures, museum studies, laboratory work, and field work. Two lectures and one laboratory period a week.
- 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.
- 210. GENERAL BIOLOGY FOR PRE-SEMINARY STUDENTS** *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 106.
- 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.
- 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. Not offered in 1956-57.
- 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. Not offered in 1956-57.
- 311. COMPARATIVE ANATOMY OF VERTEBRATES** *Five hours*
 A comparative study of the anatomy of vertebrates. Three lectures and two laboratory periods a week. Offered both semesters.
- 330m. TEACHING BIOLOGY** *Two hours*
 Points of view, contents, and methods of teaching biology, and human physiology and hygiene. Prerequisite: twenty hours of Biology.

Chemistry

PROFESSORS DE VRIES, DIRKSE, AND WOLTHUIS; ASSOCIATE PROFESSOR BROENE; MR. VANDER LUGT

A student who wishes to major in chemistry should complete the following courses: 103-4, 201-2, 301-2, 305 and 307-8. In related fields, he should complete Mathematics through Calculus, and Physics 201 and 202. Students planning to enter graduate school should have a reading knowledge of both German and French.

101N. CHEMISTRY FOR NURSES *Four hours*

A one-semester course designed for students in the regular pre-nursing course. A survey of inorganic, organic, and biological chemistry as applied to the field of medicine. Three classroom hours and one two-hour laboratory period per week.

No prerequisites.

NOTE: Students preparing for a B.S. in nursing are advised to take 103 and 104.

103 GENERAL CHEMISTRY *Four hours*

A discussion of the basic laws of inorganic chemistry, accompanied by an emphasis on the periodic table and atomic and molecular structure. Three hours in classroom and one three-hour laboratory period per week. No prerequisite, although a knowledge of high school chemistry or physics is desirable.

104 GENERAL CHEMISTRY *Four hours*

Continuation of 103 plus some descriptive material on non-metals. Hours and texts the same.

201. QUALITATIVE ANALYSIS *Four hours*

Three hours of classroom work and one three-hour laboratory period each week. The classroom work consists of a study of the elements and their compounds. The laboratory work is concerned with the separation and identification of the more common cations and anions. Prerequisites: 103 and 104, and Mathematics 101.

202. QUANTITATIVE ANALYSIS *Four hours*

Two hours of classroom work and seven hours of laboratory each week. This course consists of a study of the theory and practice of acidimetry, alkalimetry, permanganometric and iodometric analyses, and gravimetric determinations. Some of the more specialized methods of analysis are also discussed. Prerequisite: 201.

301. ORGANIC CHEMISTRY *Four hours*

A study of the various homologous series of organic compounds. Emphasis is placed on aliphatic compounds in this course. Three hours in classroom and one four-hour laboratory period per week. Prerequisite: Chemistry 103-104. Chemistry 201 is desirable.

302. ORGANIC CHEMISTRY *Four hours*

Continuation of 301, with emphasis on aromatic compounds and isolated topics. Hours the same. Prerequisite: Chemistry 301.

303. ORGANO-BIOCHEMISTRY *Four hours*

A study of organic compounds, with special emphasis on their bio-chemical significance. Includes a study of bio-chemistry—carbohydrates, liquids, proteins, digestion, metabolism, etc. For pre-nursing, pre-medical technology students, and for teachers with a minor in chemistry. Three hours of classroom work and three to four hours of laboratory per week. Prerequisites: Chemistry 103 and 104.

- 304. ORGANO-BIOCHEMISTRY** *Four hours*
Continuation of 303. Hours the same.
- 305. QUALITATIVE ORGANIC ANALYSIS** *Four hours*
Two hours of lectures and two to three laboratory periods per week. This course is based on Shriner and Fuson's text. Prerequisite: Chemistry 302.
- 307. PHYSICAL CHEMISTRY** *Four hours*
A study of the kinetic theory of gases, solids and liquids. Three lecture hours and one laboratory period per week. Prerequisites: Chemistry 201, Physics 201, Mathematics 301.
- 308. PHYSICAL CHEMISTRY** *Four hours*
A continuation of 307. Hours the same. A study of electrochemistry, chemical thermodynamics and nuclear structure.
- 308m. PHYSICAL CHEMISTRY FOR PRE-MEDICAL STUDENTS** *Three hours*
A study of the states of matter, properties of solutions, chemical kinetics and the colloidal state.
- 320. CHEMICAL RESEARCH** *One to three hours*
Library and laboratory research or an assigned problem. Only for approved seniors majoring in chemistry.

Dutch

ASSISTANT PROFESSOR LAGERWEY; REV. VAN HALSEMA

The Queen Juliana Chair of the Language and Culture
of the Netherlands

A. DUTCH LANGUAGE

- 101. ELEMENTARY DUTCH** *Four Hours*
Mastery of basic vocabulary, idiom, grammar and syntax of the Dutch language through graded readings, exercises, and conversation.
- 102. ELEMENTARY DUTCH** *Four Hours*
Continuation of Dutch 101.
- 201. INTERMEDIATE DUTCH** *Three Hours*
Selected readings of modern Dutch prose and poetry. Review of grammar and syntax. Reports on 300-400 pages of selected outside reading.
- 202. INTERMEDIATE DUTCH** *Three Hours*
Continuation of Dutch 201.
- 305. ADVANCED DUTCH** *Three Hours*
Study and discussion of several Dutch literary texts representative of the classical and modern periods of Dutch literature. Required outside reading and essays.
- 306. ADVANCED DUTCH** *Three Hours*
Continuation of Dutch 305 with the inclusion of readings in Dutch theological literature for Pre-Seminary students. Outside reading and essays.

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

B. MEDIAEVAL AND DUTCH HISTORY

- 325. THE RENAISSANCE IN FLANDERS AND ITALY (1350-1550)** *Three hours*
The age of unrest. The Christian and the Flemish Renaissance;

the Italian Renaissance, and its distribution over Western Europe through the Brethren of the Common Life. The Renaissance spirit. Not offered in 1956-57.

326. **DUTCH HISTORY (1500-1815)** *Three hours*
 A short review of the history of the Netherlands up to 1500. The Precursors of the Reformation and the Reformation in the Netherlands. The Eighty Years' War. The Dutch Golden Age and its influence on Europe. Dutch commerce and colonization. Wars between the Netherlands and other countries for religious and commercial purposes. The triumph of plutocracy and rationalism in the eighteenth century. The spirit of the French Revolution as manifested in Holland. The rebirth of Calvinism as a political and cultural power after 1815. Not offered in 1956-57.

C. DUTCH ART

331. **FLEMISH PAINTING** *Three hours*
 The Flemish and Dutch Primitives and Italianizers between 1400 and 1600 Rubens and Van Dyck and their schools. The course is analytical as well as historical. Not offered in 1956-57.
332. **DUTCH PAINTING** *Three hours*
 The Dutch Renaissance (1600-1700) and the modern Dutch painters. Not offered in 1956-57.

Economics

PROFESSOR RYSKAMP; ASSISTANT PROFESSOR VANDEN BERG; INSTRUCTOR DE WIT; MR. L. VAN ESS AND MR. LOUIS KUIPERS

Students who plan to major in Economics should confer with the head of the Department no later than the beginning of their junior year.

103. **ECONOMIC HISTORY (United States)** *Three hours*
 A review of the economic development of this country from the time of colonization to the present day. Special emphasis is placed on the development of the transportation system, the history of the tariff question, the development of unionism, the history of the banks, and the development of government regulation in our economic system.
104. **ECONOMIC GEOGRAPHY** *Three hours*
 A study of the physical factors of the environment and man's relationship to them. The subject is approached from the point of view of the various occupations in which man is engaged, and how these occupations are carried on in the world.
201. **PRINCIPLES OF ECONOMICS** *Three hours*
 A review of the fundamental principles underlying modern economic life. Not open to freshmen except by special permission. Students electing 201 are expected to take 202.
202. **PRINCIPLES OF ECONOMICS** *Three hours*
 A continuation of the principles of economics and an application of the same to current industrial problems and institutions.
203. **PRINCIPLES OF ECONOMICS** *Three hours*
 A one-semester course in economic principles and their application to questions of public policy. Intended especially for pre-engineering students. Open to others who desire a course in economics, but who do not plan to take a minor or major in this field and for whom Economics 201 and 202 are not prescribed. Not open to freshmen.
205. **BUSINESS MATHEMATICS** *Three hours*
 For description of this course, see Mathematics 205.

206. STATISTICS *Three hours*
For description of this course, see Mathematics 206.
301. MONEY AND BANKING *Three hours*
A study of the nature and functions of money, with a view to the understanding of the complex rôle of currency systems in our national and international life. A detailed study of the functions of banking, the Federal Reserve, private financial institutions, foreign trade, and so forth. Prerequisite: 201 and 202 or their equivalents.
302. FINANCIAL PRINCIPLES *Three hours*
A continuation of 301. The financial promotion of corporations and of trusts. The trust problem.
303. LABOR PROBLEMS AND TRADE UNIONISM *Three hours*
The historical background of the modern labor movement, the controversies between capital and labor, and the various solutions offered. A careful study of the history, nature, and problems of trade unionism. Prerequisite: 201 and 202.
305. ESSENTIALS OF ACCOUNTING *Four hours*
An introductory course in accounting. Intended to give students the necessary accounting background for entrance into schools of business administration or for business uses when graduating from college. Emphasis is placed on the principles of accounting and the accounting procedure in corporations. A laboratory period is held each week for application of the material. Prerequisite: 201 and 202 or their equivalents.
306. ESSENTIALS OF ACCOUNTING *Four hours*
Continuation of 305.
307. ESSENTIALS OF ACCOUNTING *Three hours*
A one-semester course intended primarily for pre-engineering students. Open to others also, provided they are not Economics or Business Administration majors. Prerequisite: Econ. 201E or Econ. 201 and 202.
308. PRINCIPLES OF MARKETING *Three hours*
A study of the marketing functions, the marketing of particular commodities, the functions and modes of operations of middlemen, associate activities affecting marketing, price policies, etc. Not offered in 1956-57.
309. BUSINESS LAW: CONTRACTS *Three hours*
Deals with the main principles of contract: offer, acceptance, consideration, capacity of the parties, legality of object, the formal requisites of agreements under the statute of frauds, the operation of contracts in business and their interpretation by the courts.
Open to seniors, and to juniors only by special permission. Not offered in 1956-57.
312. COST ACCOUNTING *Three hours*
A beginning course in the principles of cost accounting. A laboratory period is held each week for the application of the material.

Education

PROFESSORS FLOKSTRA, JAARSMAN, VAN BRUGGEN AND DE BEER; DEAN VAN OPYNEN; INSTRUCTOR VAN LAAR

Students who plan to meet teacher certification requirements will find detailed information on pages 53 to 55.

A. PSYCHOLOGY

(See description of courses under department of Psychology.)

B. HISTORY

203. HISTORY OF AMERICAN EDUCATION *Three hours*
In this course the educational development in our country will be viewed in the light of the religious, social, economic, and political changes.
305. HISTORY OF EDUCATION *Three hours*
A survey of the growth of educational theory and practice during the ancient and medieval periods.
306. HISTORY OF EDUCATION *Three hours*
A continuation of 305 covering the modern period.
309. EDUCATIONAL SOCIOLOGY *Three hours*
A study of the social structure and educational practice with emphasis on present-day problems. Credit also for Sociology, but not for both. Both semesters.

C. PRINCIPLES

301. PRINCIPLES OF EDUCATION *Three hours*
A study of the aim of education and of the various underlying problems.
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. Prerequisite: Psychology 202.
315. PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOLS *Three hours*
Principles governing the directing of learning of children in the elementary school will be taken up. Prerequisite: Psychology 202.
317. PRINCIPLES OF KINDERGARTEN-PRIMARY GRADES TEACHING *Two or three hours*
The course includes a brief history of past and present trends in kindergarten work; the content of the curriculum for grades one, two, and three; and observations in actual classroom situations. Prerequisite: Psychology 202.

D. PROFESSIONAL COURSES

220. TEACHING ARITHMETIC IN ELEMENTARY SCHOOLS *Three hours*
Both content and methods in arithmetic throughout the grades will be considered. Prerequisite: Psychology 202.
222. ELEMENTARY SCHOOL MUSIC (A Methods Course) *Two hours*
(See Music 222)
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. Prerequisite: Psychology 202.
318. TEACHING GEOGRAPHY IN ELEMENTARY SCHOOLS: METHODS AND CONTENT *Three hours*
Prerequisite: Psychology 202.
322. TEACHING READING IN ELEMENTARY SCHOOLS *Three hours*
Both semesters. Prerequisite: Psychology 202.
324. TEACHING HISTORY *Two hours*
A brief survey of the history of our country will be fused with a study of the techniques of teaching history in the elementary and junior high grades. Prerequisite: Education 314 or 315.
328. TEACHING LATIN *Three hours*
Same as Latin 327 and 330*m* combined.
332. REMEDIAL READING *Three hours*
340. CURRICULUM *Two hours*
A study of curriculum requirements for grades four through six, and of the fundamental teaching procedures applying to children of later childhood. Observation required.
343. DIRECTED TEACHING, INCLUDING OBSERVATION AND PARTICIPATION *Eight hours*
For students planning to teach in the elementary schools. Offered both semesters. See prerequisites listed earlier in this catalogue under Education.
344. DIRECTED TEACHING, INCLUDING OBSERVATION AND PARTICIPATION *Eight hours*
For students planning to teach in junior or senior high schools. The course seeks to orient the student to classroom teaching by integrating observation, participation, and actual teaching. A study of theory of teaching parallels daily work in the junior or senior high school classroom in order to help the student make explicit to himself a distinctly Christian view of theory and practice in education. See prerequisites listed earlier in this catalogue under Education.
- 330*m*. THE TEACHING OF LATIN OR ENGLISH, ETC.
Teachers courses in the various departments are all indicated by the number 330 followed by the letter *m*. For description see under the department wanted.

Engineering

PROFESSOR WASSINK; MR. BOSSCHER* AND MR. VERMAIRE

101. MECHANICAL DRAWING *Three hours*
The principles of orthographic projection; practice in the making of working drawings; practice in lettering; and tracing. Three three-hour drafting-room periods, three hours home work a week.
102. DESCRIPTIVE GEOMETRY *Three hours*
Exercises, instruction, and drill through the medium of 8C 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.

205. **ENGINEERING MATERIALS AND PROCESSES** *Three hours*
Metals, alloys, cement, clay products, protective coatings, plastics. Visits to various metal-working and other plants. Students should keep Thursday afternoons open on their schedules for such visits. Prerequisite: Chemistry 104.
207. **SURVEYING** *Two or three hours*
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. Not offered 1956-57.
301. **STATICS** *Three hours*
Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Forces, components, moments, cables, friction, centroids, moments of inertia. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 301 and Physics 201 or 203.
304. **STRENGTH AND ELASTICITY OF MATERIALS** *Four hours*
Application of principles of mechanics to solution of problems in stress and strain of engineering materials, including resistance to force, bending, torque, shear, eccentric load, deflection of beams, buckling of columns, and compounding of simple stresses. Recitations, lectures, and problems. Prerequisite: Engineering 301.
306. **DYNAMICS** *Three hours*
Motion of a particle, dynamics of moving bodies, Newton's laws, simple harmonic motion, elementary vibration problems, balancing, pendulums, impulse and momentum, work and energy. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 302 and Physics 202 or 204.

*On leave of absence.

English

PROFESSORS ZYLSTRA* AND TIMMERMAN; ASSISTANT PROFESSOR SLINGERLAND; INSTRUCTORS HARPER, JANSSEN, OPPEWALL, VANDER WEELE, AND TIEMERSMA; MISS DUIMSTRA AND MRS. FRED. BROUWER.

All freshmen must take Freshman English (103 and 104).

Sophomores may choose between the comprehensive course in American Literature (English 201 and 202) and the comprehensive course in English Literature (English 203 and 204). Sophomores, however, who plan to take more than twelve hours of English in college should elect American Literature (English 201 and 202), and thereupon proceed directly to the 300-courses.

Sophomores who plan a major or minor concentration in English may take a 300-English course concurrently with English 201 and 202.

Upperclassmen who elect English as the subject of their major or minor concentration should try to pursue as many of the special period and author 300-courses as their programs of study allow. Such students should consult the department in the selection of these courses.

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

*On leave 1956-1957.

103. **FRESHMAN ENGLISH** *Three hours*
Grammar, rhetoric, and composition. Textbooks and periodic themes.
104. **FRESHMAN ENGLISH** *Three hours*
A continuation of English 103.

- 201. AMERICAN LITERATURE** *Three hours*
Analysis of important writings in the colonial and revolutionary periods. Emphasis upon culture and writings of the New England Group. Textbooks, collateral reading, and reports.
- 202. AMERICAN LITERATURE** *Three hours*
Continuation of English 201. Intensive study of Whitman and Twain. Survey of realistic movement, the new poetry, and important twentieth century fiction and criticism. Textbook, collateral reading, and reports.
- 203. ENGLISH LITERATURE I** *Three hours*
A comprehensive study of English literature from Chaucer through Pope. The course is conducted intensively in the major authors rather than inclusively of all of them. Textbook, library reading, assigned papers, classroom analysis and discussion of important works.
- 204. ENGLISH LITERATURE II** *Three hours*
A continuation of English 203. The course proceeds from Johnson through Eliot.
- 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 works 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 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** *Three hours*
A study of the lyric and dramatic poetry of England, in its continental relations, from 1890 to the present time. Textbook, collateral reading, and reports.
- 306. ADVANCED COMPOSITION** *Three hours*
A practical course in the writing of such types of composition as the formal and informal essay, the informative and feature article, the editorial and book review, the short story, the lyric poem, and the like. Some collateral reading and much student writing. Open by permission only, to students who have ability or 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.
- 308. LITERATURE OF THE SEVENTEENTH CENTURY** *Three hours*
A survey of the poetry and prose of the century, and an intensive study of the works of John Milton. Textbook, collateral reading, and reports.

309. 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.
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 hours*
 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.
316. LITERATURE OF THE EIGHTEENTH CENTURY *Three hours*
 A study of English poetry and prose from Dryden through Burns. Emphasis upon the neo-classicists: Dryden, Pope, Addison, Swift, and Johnson, and a study of the beginnings of the romantic outlook in Gray, Thomson, and Cowper. Textbook, collateral reading, and reports.
- 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

- INSTRUCTOR A. OTTEN, ASSISTANT PROFESSOR VAN ZWOLL
101. ELEMENTARY FRENCH *Four hours*
 An introductory course in the comprehension and use of spoken and written French.
102. ELEMENTARY FRENCH *Four hours*
 Continuation of French 101.
201. INTERMEDIATE FRENCH *Three hours*
 Further training in spoken and written French and extensive reading in representative French literature.
202. INTERMEDIATE FRENCH *Three hours*
 Continuation of French 201.
301. LITERATURE OF THE NINETEENTH CENTURY *Three hours*
 A study of major movements and writers in nineteenth century France to 1870. Not offered in 1956-57.

- 302. CONTEMPORARY FRENCH LITERATURE** *Three hours*
A study of French literature from 1870 to the present time. Texts, collateral reading, and reports. Not offered in 1956-57.
- 303. LITERATURE OF THE SEVENTEENTH CENTURY** *Three hours*
A study of the growth and spirit of Classicism, with emphasis on representative authors, especially Corneille and Moliere. Prerequisite: 202.
- 304. LITERATURE OF THE SEVENTEENTH CENTURY** *Three hours*
Continuation of 303, with special attention to La Fontaine, Boileau, and Racine.
- 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

PROFESSOR FLOKSTRA; DEAN VAN OPYNEN

- 104. ECONOMIC GEOGRAPHY** *Three hours*
For description see Economics.
- 105. GEOGRAPHY OF NORTH AMERICA** *Three hours*
A survey of the elements of the natural environment of the major regions of the United States and Canada in their relationship to the cultural landscape. Intended for those specializing in education or in the social sciences.
- 106. GEOGRAPHY OF SOUTH AMERICA** *Three hours*
A study of the geographic structure of South America in relation to human adjustment and culture. Intended for those specializing in education or in the social sciences.
- 107. GEOGRAPHY OF THE FAR EAST AND THE PACIFIC AREA** *Three hours*
A study of the geographic and historical background of India, China, Japan, Soviet Asia, Australia, and minor areas of the Far East and the Pacific. The course also deals with the geographic aspects of certain problems dealing with industry, agriculture, and population.
- 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. Not offered in 1956-57.
- 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

PROFESSORS BOERSMA AND FRIDSMA; ASSISTANT PROFESSOR VAN ZWOLL; MR. KOOPMANS

- 101. ELEMENTARY GERMAN** *Four hours*
Pronunciation, elementary grammar and composition. Graded readings.
- 102. ELEMENTARY GERMAN** *Four hours*
Continuation of 101.

201. INTERMEDIATE GERMAN *Three hours*
Selected prose readings. Grammar review, composition, and collateral reading reports. Prerequisite: 101 and 102.
202. INTERMEDIATE GERMAN *Three hours*
More advanced readings in prose and/or poetry. Grammar review and composition continued. Collateral reading reports. Prerequisite: 201.
301. CLASSICISM *Three hours*
The origins of the classical ideal during the seventeenth and early eighteenth centuries. Readings from Klopstock, Lessing, Goethe, and Schiller. Prerequisite for either semester: 202. Not offered in 1956-57.
302. CLASSICISM *Three hours*
Continuation of 301. Not offered in 1956-57.
303. ROMANTICISM *Three hours*
The literary theory and philosophical-religious basis of the German romantic movement as reflected in representative works of both earlier and later Romanticists. Prerequisite: 202. Not offered in 1956-57.
304. REALISM *Three hours*
Readings in the literary prose of the latter half of the nineteenth century. A survey of the intellectual and cultural changes immediately preceding this era and an analysis of some literary works characteristic of the period. Prerequisite: 202. Not offered in 1956-57.
305. EARLY NINETEENTH CENTURY DRAMA *Three hours*
A comprehensive study of the lives and works of leading German dramatists of the early nineteenth century. Assigned readings. Papers on related subjects. Prerequisite: 202.
306. LATER NINETEENTH CENTURY DRAMA *Three hours*
A study of Hebbel and Hauptmann and their times. Assigned reading and reports. Prerequisites: 202 and 303.
- 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

PROFESSOR RADIUS; INSTRUCTORS VAN ELDEREN AND R. OTTEN;
MR. KISTEMAKER; MR. ZYLSTRA

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 *Three hours*
Selections from the *Anabasis*. Prerequisite: 101 and 102.
202. SELECTIONS FROM PLATO *Three hours*
Prerequisite: 201.

- 311. GREEK HISTORY** *Three hours*
 The political, social and cultural history of the Greek city-states up to the time of the Roman conquest. Some attention is also given to the history of the Near and Middle East. Open only to Juniors and Seniors who are Pre-Law, Pre-Seminary, History or Classic majors; others must secure permission.
- 312. NEW TESTAMENT GREEK** *Three hours*
 The Gospel according to St. 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. Prerequisites: for pre-Seminary students, 202; others, 102.
- 313. NEW TESTAMENT GREEK** *Three hours*
 A study is made of some of the Pauline Epistles. Prerequisite: 313.
- 319. PLATO'S REPUBLIC** *Two or Three hours*
 The Greek text is studied. This course aims at an understanding and evaluation of Plato's views as presented especially in the Republic. Prerequisite: two years of Greek.
- 320. PLATO'S REPUBLIC (continued)** *Two or Three hours*
 Prerequisite: Greek 319

History

PROFESSORS DROST, STRIKWERDA, RADIUS, AND DE BEER; ASSOCIATE PROFESSOR MILLER; ASSISTANT PROFESSORS IPPEL AND DE BIE

Students majoring in history are required to total thirty hours as follows: History 101 and 102 (six hours), American History (general or constitutional, six hours), plus six hours in each of any three of the following fields: English History (general or constitutional), Modern and Contemporary European History, Ancient History, Medieval History, Latin American History.

Students who contemplate a major in history are urged to consult at intervals with the chairman of the department.

Courses 101 and 102 are required of all freshman candidates for the A.B. degrees.

- 101. GROWTH OF WESTERN CIVILIZATION** *Three hours*
 This course endeavors to give a comprehensive view of the rise and movement of western civilization from the earliest times to approximately 800 A.D. In the interests of pre-theology students Mesopotamia, Egypt, and Greece are examined with some care. (Juniors and seniors receive two hours credit for this course.)
- 102. GROWTH OF WESTERN CIVILIZATION** *Three hours*
 A continuation of 101. Particular attention is given to the medieval contest between the papacy and the Empire, to the Renaissance and the Reformation. Sketches the rise of the great powers and the several revolutions of modern history. Outlines the Napoleonic period and the major political phenomena of the nineteenth century. (Juniors and seniors receive two hours credit for this course.)
- 203. ENGLISH HISTORY TO 1600** *Three hours*
 An outline of the political and social history of England. (Taught in alternate years.)
- 204. ENGLISH HISTORY, 1600 TO 1950** *Three hours*
 A continuation of 203. (Taught in alternate years.)

205. MODERN AND CONTEMPORARY EUROPEAN HISTORY *Three hours*
Inventories western Europe at the onset of the modern period. Studies the economic, intellectual, religious, and political upheavals. Examines the French Revolution, the Era of Napoleon, the Age of Metternich, and the unifications. Prerequisites: 101 and 202.
206. MODERN AND CONTEMPORARY EUROPEAN HISTORY *Three hours*
A continuation of 205. Outlines the history of the several major powers through World War II. Investigates the rise and impact of socialism, fascism, and communism. Prerequisites: 101 and 102.
207. AMERICAN HISTORY FOR ELEMENTARY TEACHERS *Three Hours*
A one-semester course designed to meet the needs of students who plan to teach on the elementary level only. A survey of United States history beginning with European backgrounds and extending to the present. Includes the equivalent of one hour of work in political science.
301. AMERICAN HISTORY *Three hours*
European backgrounds, colonial development, the revolution, the onset of the national period, Jacksonianism, sectionalism, and the background of the Civil War.
302. AMERICAN HISTORY *Three hours*
A continuation of 301. The Civil War and its aftermath, the economic phenomena and political history of the late nineteenth century, the Roosevelt and Wilson eras, and the impact of the two world wars.
305. LATIN AMERICAN HISTORY *Three hours*
An account of the history, government, and social and economic development of the Central and South American colonies of Spain and Portugal.
306. LATIN AMERICAN HISTORY *Three hours*
A continuation of 305. Presents the histories and governments of the several Central and South American countries during their national periods to the present day.
307. MEDIEVAL HISTORY *Three hours*
The political, cultural, and social developments in Europe from the last century of the Roman Empire through the Carolingian era.
308. MEDIEVAL HISTORY *Three hour*
A continuation of 307. Studies the high middle ages and the Renaissance in their political, ecclesiastical, and cultural aspects. Concludes with the beginning of the modern period.
311. GREEK HISTORY *Three hours*
The political, social and cultural history of the Greek city-states up to the time of the Roman conquest. Some attention is also given to the history of Near and Middle East. Open only to juniors and seniors who are pre-Law, pre-Seminary, history, or classic majors; others must secure permission.
312. ROMAN HISTORY *Three hours*
The history of Rome from the foundation of the city to 565 A.D., the death of Justinian. 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. The decline of paganism and the rise of Christianity are reviewed in their relation to each other. Prerequisite, 311.

- 313. ENGLISH CONSTITUTIONAL HISTORY** *Three hours*
A study of the origins and subsequent developments of English legal institutions, law, and constitutional usages from Anglo-Saxon times to the close of the Middle Ages. (Taught in alternate years.)
- 314. ENGLISH CONSTITUTIONAL HISTORY** *Three hours*
A continuation of 313. (Taught in alternate years.)
- 315. AMERICAN CONSTITUTIONAL HISTORY** *Three hours*
A study of the development of American political ideas, institutions, and practices from colonial precedents to contemporary problems. Emphasizes the origin, character, and evolution of the American constitution and the court decisions which interpret it. (Taught in alternate years.)
- 316. AMERICAN CONSTITUTIONAL HISTORY** *Three hours*
A continuation of 314. (Taught in alternate years.)
- 325. THE RENAISSANCE IN FLANDERS AND ITALY (1350-1550)** *Three hours*
The age of unrest. The Christian and the Flemish Renaissance; the Italian Renaissance, and its distribution over Western Europe through the Brethren of the Common Life. The Renaissance spirit. Not offered in 1956-57.
- 326. DUTCH HISTORY (1500-1815)** *Three hours*
A short review of the history of the Netherlands up to 1500. The Precursors of the Reformation and the Reformation in the Netherlands. The Eighty Years' War. The Dutch Golden Age and its influence on Europe. Dutch commerce and colonization. Wars between the Netherlands and other countries for religious and commercial purposes. The triumph of plutocracy and rationalism in the eighteenth century. The spirit of the French Revolution as manifested in Holland. The rebirth of Calvinism as a political and cultural power after 1815. Not offered in 1956-57.

Latin

PROFESSOR RADIUS; INSTRUCTORS R. OTTEN AND VAN ELDEREN;
MISS DUIMSTRA, MR. VAN VUGT

Pre-Seminarians —

- Those who have had one year in high school take 101.
- Those who have had two years in high school take 201.
- Those who have had 101 and 102 at Calvin take 307.

Others —

- Those who have had one year in high school take 101.
- Those who have had two years in high school take 201.
- Those who have had three years in high school take 201 or 301 (consult instructor).
- Those who have had 101 and 102 at Calvin take 201.
- Those who have had 201 and 202 at Calvin take 301.
- Students who are planning a major in Latin should consult with Dr. W. T. Radius.

- 101. ELEMENTARY LATIN** *Four hours*
Text: Smith-Thompson, First Year Latin. (revised by Jenney)
- 102. ELEMENTARY LATIN** *Four hours*
Continuation of 101. Same text as above.
- 201. INTERMEDIATE LATIN** *Three hours*
For students who have had two units of Latin in high school or one year in college. A thorough review of the grammar will accompany the reading of selected Latin prose.

202. INTERMEDIATE LATIN *Three hours*
Continuation of 201.
301. CICERO'S PHILOSOPHICAL ESSAYS *Three hours*
Reading of one or more of the following: *De Amicitia, De Senectute, Tusculanae Disputationes.*
302. READINGS IN LATIN PROSE AND POETRY *Three hours*
Selections drawn from the following Roman writers: Catullus, Cicero, Horace, Livy, Lucretius, Martial, Ovid, Pliny the Younger, Propertius, Tibullus and Vergil.
307. SELECTIONS FROM LACTANTIUS' DIVINAE INSTITUTIONES *Three Hours*
Review of grammar. Reading of selected portions of the *Institutiones.*
308. READINGS IN THE CHURCH FATHERS *Three hours*
Continuation of 307.
312. ROMAN HISTORY *Three hours*
The history of Rome from the foundation of the city to A. D. 565, the death of Justinian. 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. The decline of paganism and the rise of Christianity are viewed in their relation to each other. Prerequisite, Greek 311 or History 311.
- 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

PROFESSOR MUYSKENS; ASSOCIATE PROFESSOR TULS; INSTRUCTOR SINKE;
MR. H. BOUMA, AND MISS MEETER

Students who wish to major in Mathematics should take Math. 101, Math. 102, and Math. 104 in High School. Ten hours of Calculus is the basic requirement for a major in Mathematics. All courses have as prerequisite one year High School Algebra and one year Plane Geometry.

101. ADVANCED ALGEBRA *Three hours*
For those who have had only one year of high school algebra.
102. SOLID GEOMETRY *Three hours*
Prerequisite. Math. 101 and plane geometry.
104. PLANE TRIGONOMETRY *Three hours*
Prerequisite. Math. 101 and plane geometry.
201. COLLEGE ALGEBRA AND PLANE ANALYTICAL GEOMETRY *Five hours*
Prerequisite: Math. 101 and Math. 104.
202. CONTINUATION OF 201 *Five hours*
Plane analytical geometry completed and an introduction to solid analytical geometry.
203. SPHERICAL TRIGONOMETRY *Two hours*
Prerequisite: Math. 102 and Math. 104.

- 205.** BUSINESS MATHEMATICS *Three hours*
Required of all students of business administration. Prerequisite: Math. 101.
- 206.** STATISTICS *Three hours*
Emphasis on statistical methods. Prerequisite: Math. 101. For business administration students Math. 205 is required.
- 301.** CALCULUS *Five hours*
Differentiation and integration of algebraic functions. Prerequisite: Math. 201 and 202.
- 302.** CALCULUS *Five hours*
Differentiation and integration of transcendental functions. Solution of elementary ordinary differential equations. Prerequisite: Math. 301.
- 304.** DIFFERENTIAL EQUATIONS *Two hours*
Prerequisite: Math. 302.
- 305.** THEORY OF EQUATIONS *Three hours*
Prerequisite: Math. 302.
- 330m.** TEACHERS' COURSE *One hour*
Methods of teaching high school mathematics.

Music

PROFESSOR SWETS; ASSOCIATE PROFESSOR DE JONGE; ASSISTANT PROFESSOR GEERDES; INSTRUCTORS HAMERSMA AND VAN SOLKEMA

THEORY

- 103.** 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 *Three Hours*
Continuation of 103.
- 203.** THEORY AND HARMONY, ADVANCED *Three Hours*
Continuation of 103-104. Use of all diatonic triad 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 *Three Hours*
Continuation of 203.
- 303.** COUNTERPOINT, CANON AND FUGUE *Three Hours*
The principles of contrapuntal composition, including a study of species counterpoint and a detailed analysis of Palestrinian counterpoint.
- 304.** COUNTERPOINT, CANON AND FUGUE *Three Hours*
Continuation of 303.
- 313.** CONDUCTING *One Hour*
- 314.** CONDUCTING *One Hour*
- 315.** ARRANGING *Two or 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. Prerequisite: Music 103-104. Not offered during 1956-57.

316. ARRANGING *Two or Three Hours*
Continuation of 315. Not offered during 1956-57.

HISTORY AND LITERATURE

211. INTRODUCTION TO MUSIC LITERATURE *Three Hours*
General course designed to develop intelligent discrimination in the listener. Structural principles and aesthetic content of music with reference to the various forms and styles will be considered. The course is planned to give a general idea of the entire realm of music and is intended alike for the technical musician and those who wish to become merely intelligent listeners.
212. MUSIC LITERATURE *Three Hours*
Continuation of 211.
219. CHURCH MUSIC *Two Hours*
An historical survey of the worship music of the ancient Hebrews, the early Christian church, the Roman church and the churches of the Reformation. A study of the development of plainsong, the Lutheran chorale and the Genevan-Dutch psalm tunes.
220. CHURCH MUSIC *Two Hours*
An historical survey of the music of the church in post-Reformation England and America. A study of the organ and its literature and of the English hymn. Principles of appropriate worship music are discussed in the light of the history of the music of the church. Prerequisite: Music 219.
305. HISTORY OF MUSIC *Three Hours*
The development of the art of music from the earliest times to the present. Oratorio and church music, the opera, songs, and instrumental music. Biographies of composers. Representative compositions of each main period presented in class. Lectures, collateral reading, term papers, and text-book work.
306. HISTORY OF MUSIC *Three Hours*
Continuation of 305.
307. FORM *Two Hours*
A study of the development of musical forms, beginning with the early plainsong, masses, motets, madrigals, and continuing through early orchestral and instrumental compositions. The relationship of musical form to problems of tonality, rhythm, unity and variety. Not offered during 1956-57.
308. FORM *Two Hours*
Continuation of 307. Not offered during 1956-57.
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

221. ELEMENTS OF MUSIC *Two Hours*
A course designed to give basic training in the melodic, rhythmic and harmonic elements of music for the prospective grade teacher. Special attention is given to coordinating the ear, eye, voice, and piano keyboard.

- 222. ELEMENTARY SCHOOL MUSIC** *Two Hours*
 A course designed to prepare for teaching music in the elementary grades. Includes the study of child-voice problems, rote-song teaching, conducting, music-reading, and evaluation of basic music texts and supplementary materials. Collateral reading. Prerequisite: Music 221 or its equivalent. Music Majors concentrating in Vocal Music education may elect this course for three hours credit. This may be credited as Education 222.
- 331. JUNIOR HIGH SCHOOL MUSIC** *Three Hours*
 A study and evaluation of vocal problems, methods, and materials for the junior high school. Includes the changing-voice of the adolescent child, voice testing and classification, general music class, organization and procedures for choral groups, and a study of materials. Collateral reading. Prerequisite: Music 103-104.
- 332. SENIOR HIGH SCHOOL MUSIC** *Three Hours*
 The study and evaluation of the aims, content and procedures of a vocal music program for the senior high school. Includes the consideration of voice-testing and classification, the principles underlying the organization and development of choral units, as well as a survey of vocal music materials for these groups. Collateral reading. Prerequisite: Music 103-104.
- 333. TEACHING OF INSTRUMENTAL MUSIC** *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 orchestra and band instruments; evaluation of methods of class instruction; orchestra and band organization; repertoire. Must be taken no later than the junior year.

APPLIED MUSIC

All applied music students should study with a member of the college staff. In case of an overload in the department, it may be necessary for the chairman of the department to recommend that the student study with an approved teacher in the community. This recommendation will be made only in an emergency.

All applied music students must appear before a jury consisting of the members of the music faculty for examination at the end of each semester to determine placement and grade.

All entering applied music students will be given provisional placement for the semester by the instructor. Final placement will be determined by the jury at the end of the semester.

Detailed applied music requirements are found, with other important information, in the "Music Department Handbook" which may be procured from the Chairman of the Music Department.

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

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 hours.

(Individual Lessons)

- 117-118, 217-218, 317-318, 327-328 VOICE** *One hour*
 Individual lessons in voice. Fee: \$30.00 per semester.
- 117c-118c, 217c-218c, 317c-318c, 327c-328c VOICE** *Two hours*
 Individual lessons for the Music Major concentrating in voice. Fee: \$30.00 per semester.

- 109-110, 209-210, 309-310, 319-320 ORGAN *One hour*
Individual lessons in organ. Fee: \$30.00 per semester. Practice fee: \$10.00 per semester.
- 109c-110c, 209c-210c, 309c-310c, 319c-320c ORGAN *Two hours*
Individual lessons for the Music Major concentrating in organ. Fee: \$30.00 per semester. Practice fee: \$10.00 per semester.
- 141-142, 241-242, 341-342, 351-352 PIANO *One hour*
Individual lessons in piano. Fee: \$30.00 per semester.
- 141c-142c, 241c-242c, 341c-342-c, 351c-352c PIANO *Two hours*
Individual lessons for the Music Major concentrating in piano. Fee: \$30.00 per semester.
- 161-162, 261-262, 361-362, 461-462 STRINGS *One hour*
Individual lessons in violin, viola, violoncello or bass violin. Fee as required.
- 161c-162c, 261c-262c, 361c-362c, 461c-462c STRINGS *Two hours*
Individual lessons for the Music Major concentrating in violin, viola, violoncello, or bass violin. Fee as required.
- 171-172, 271-272, 371-372, 471-472 WOODWINDS *One hour*
Individual lessons in flute, oboe, clarinet, bassoon or saxophone. Fee as required.
- 171c-172c, 271c-272c, 371c-372c, 471c-472 WOODWINDS *Two hours*
Individual lessons for the Music Major concentrating in flute, oboe, clarinet, bassoon or saxophone. Fee as required.
- 181-182, 281-282, 381-382, 481-482 BRASSES *One hour*
Individual lessons in cornet, horn, baritone, trombone or bass horn. Fee as required.
- 181c-182c, 281c-282c, 381c-382c, 481c-482c BRASSES *Two hours*
Individual lessons for the Music Major concentrating in cornet, horn, baritone, trombone or bass horn. Fee as required.
- 191 PERCUSSION
Individual lessons in snare drum, tympani and other percussion instruments. Fee as required.
- (Class Lessons)
- 161-164 STRINGS *One hour*
Class lessons in string instruments for the Music Major concentrating in Instrumental Music Education.
- 173-174 WOODWINDS *One hour*
Class lessons in woodwinds for the Music Major concentrating in Instrumental Music Education.
- 183-184 BRASSES *One hour*
Class lessons in brass instruments for the Music Major concentrating in Instrumental Music Education.
- 193 PERCUSSION *One hour*
Class lessons in percussion instruments for the Music Major concentrating in Instrumental Music Education.
- 119-120 VOICE *One hour*
Class lessons in voice for the Music Major concentrating in Instrumental Music Education.

ENSEMBLES

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

107-108. RADIO CHOIR*One hour*

Performs weekly as the Choir of the Back to God Hour, our denominational Sunday broadcast over the Mutual Network. Representative works in the field of Church music suitable for radio performance are used. Open only to those who meet the demands of voice and musicianship. One hour credit for each semester.

107-208. A CAPPELLA CHOIR*One Hour*

Representative works in the field of choral literature are studied and a limited number of selections prepared for concert performance. Open only to those who meet the demands of voice and musicianship. One hour credit for each semester.

213-214. BAND*One hour*

Representative works in the field of band literature are studied and prepared for concert performance. Open to all students who meet the demands of musicianship. Three rehearsals a week. One hour credit for each semester.

215-216. ORCHESTRA*One hour*

Representative works in the field of chamber and symphony orchestra literature are studied and prepared for concert performance. Open to all students who meet the demands of musicianship. Two rehearsals a week. One hour credit each semester.

Philosophy

PROFESSOR JELLEMA*; ASSOCIATE PROFESSOR RUNNER;
INSTRUCTOR BROUWER

Majors in Philosophy must at the beginning of each semester have their complete course programs approved by the head of the department. Application for permission to major should be made not later than the beginning of the student's junior year.

ELEMENTARY COURSES

200. LOGIC*Three hours*

A course in traditional and elementary symbolic logic. Offered each semester.

201. PERSPECTIVES OF PHILOSOPHY*Three hours*

An introduction to philosophy and its problems which emphasizes 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. degree. Offered first semester only.

202. PERSPECTIVES OF PHILOSOPHY*Three hours*

Continuation of 201, but may be taken independently by qualified students. Offered second semester only.

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. Through Plotinus. Offered each semester.

*On leave first semester 1956-57.

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.
302. **HISTORY OF PHILOSOPHY: MODERN** *Three hours*
 Historical and critical study of the philosophical perspective of modernity. Renaissance through Kant.
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.
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.
307. **POLITICAL PHILOSOPHY** *Three hours*
 A history of political thought from the Hebrews to contemporary times, with especial emphasis upon the development of democratic ideals and their application.
308. **AESTHETICS** *Three hours*
 A study of the main features of the aesthetic judgment as exemplified in the fine arts, of the relation of art to the aesthetic, and of the relation of aesthetic value to other values, such as the moral.

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.
351. **KANT** *Three hours*
 Study of the *Critique of Pure Reason*.
352. **THE PHILOSOPHY OF THOMAS AQUINAS** *Three hours*
 A course in Thomistic thought based upon a critical analysis of the *Summae*. Prerequisite: 301.
353. **PLATO** *Three hours*
 Study of the later Platonic dialogues.
362. **CONTEMPORARY PHILOSOPHY** *Three hours*
 History of the major philosophical movements in the last 100 years.
364. **METAPHYSICS** *Three hours*
 A study of first principles or ultimate philosophical questions involved in the theory of reality, the theory of knowledge, and the theory of value.

Physical Education

ASSISTANT PROFESSOR STEEN; INSTRUCTOR TUUK AND MISS OOSTHOEK
 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 106, or 105 and 102.

Students should meet requirements for the Red Cross First Aid Certificate.

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. Not open to freshmen.
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 *Three hours*
A study of the fundamentals of Track, Tennis, Golf, and Baseball. Methods of teaching and coaching of these sports are also discussed. Not open to freshmen.
221. INDIVIDUAL SPORTS FOR WOMEN *Three hours*
A study of the background, fundamentals, and teaching methods of tennis, golf, badminton, archery and bowling.
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.

Physical Science

PROFESSOR DE VRIES AND MR. VANDER LUGT

205. INTRODUCTION TO PHYSICAL SCIENCE *Three hours*
This course attempts to evaluate critically the basic assumptions, simple laws and results of modern scientific investigations in the field of physics, chemistry, geology and astronomy. Emphasis is placed on the interrelation of these fields rather than a study of each unit by itself. Not open to students having had Chemistry 103-104 or Physics 201-202 or their equivalent.
206. INTRODUCTION TO PHYSICAL SCIENCE *Three hours*
Continuation of 205, which is also a prerequisite.

Physics

PROFESSOR WASSINK; INSTRUCTOR SINKE; VISITING PROFESSOR VAN WYLEN

A student who wishes to major in Physics should complete the following courses: Physics 201 and 202 or 203 and 204, 301, 302, 303, 304, 305, 306, 307, and 308. In related fields, he should complete Mathematics 104, 201, 202, 301, 302 and 304; and Chemistry 103 and 104. Advanced Algebra, Solid Geometry and Plane Trigonometry should be completed in high school, if possible. The student should take Chemistry 103 and 104, and Mathematics 201 and 202 during his freshman year and should, before the beginning of the sophomore year, confer with a member of the Physics staff.

201. GENERAL PHYSICS *Four hours*
 Mechanics, sound, and heat. Prerequisite: Math. 104. Three recitations and one two-to-three-hour laboratory period a week.
202. GENERAL PHYSICS *Four hours*
 Electricity and light. Continuation of 201. Three recitations and one two-to-three-hour laboratory period a week.
203. GENERAL PHYSICS *Six 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.
204. GENERAL PHYSICS *Six hours*
 Electricity and light. (Required of all engineering students.) A continuation of 203. 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.
- NOTE: Prerequisites for the following courses are Physics 202 or 204, and Mathematics 302.
301. MECHANICS *Three hours*
 The fundamental principles of Newtonian Mechanics applied to a single particle, a system of particles, and to the motion of a rigid body; a discussion of central force motion with applications to Kepler's laws and Rutherford scattering laws; the principle of virtual displacements, d'Alembert's principle and Lagrange's equations; an introduction to the special theory of relativity. Not offered in 1956-57.
302. MECHANICS *Three hours*
 A continuation of 301 which is a prerequisite. Not offered in 1956-57.
303. MODERN PHYSICS *Three hours*
 Elementary particles, relativistic dynamics, atomic structure and spectral lines, quantum mechanics, x-rays, molecular structure, nuclear reactions, particle accelerators, nuclear fission and cosmic rays. Not offered in 1956-57.
304. MODERN PHYSICS *Three hours*
 A continuation of 303 which is a prerequisite. Not offered in 1956-57.
305. HEAT *Three hours*
 An introduction to the first and second laws of thermodynamics and to the kinetic theory or gases.
306. OPTICS *Three hours*
 The phenomena of interference, diffraction and polarization. Two lectures and one laboratory period a week. Not offered in 1956-57.
307. ELECTRICITY AND MAGNETISM *Four hours*
 The elementary theory of electrostatics, magnetism, direct current and alternating current circuit theory, and electromagnetic waves. Three lectures and one laboratory period a week. Not offered in 1956-57.
308. ELECTRICITY AND MAGNETISM *Four hours*
 A continuation of 307 which is a prerequisite. Three lectures and one laboratory period a week. Not offered in 1956-57.

Political Science

ASSISTANT PROFESSOR IPPEL

- 101.** GOVERNMENT OF MODERN STATES *Three hours*
 The organization and operation of modern governments. Emphasis is placed on British and Continental European governments with a special regard for recent political developments in these countries. Lectures and collateral reading.
- 102.** GOVERNMENT OF MODERN STATES *Three hours*
 Continuation of 101, which is prerequisite.
- 201.** PRINCIPLES OF POLITICAL SCIENCE *Three hours*
 An analysis of problems dealt with in Political Science, including the origin, nature, and essential functions of the state; the nature of sovereignty and law; and relations of government to the individual. Lectures and collateral reading. Not open to freshmen.
- 202.** PRINCIPLES OF POLITICAL SCIENCE *Three hours*
 Continuation of 201, which is prerequisite.
- 303.** AMERICAN NATIONAL GOVERNMENT *Three hours*
 Basic principles and their practical application to the operation of the Federal constitution. The interpretation of the constitution by the various branches and departments of government, and the extension of government into the socio-economic field.
- 304.** AMERICAN NATIONAL GOVERNMENT *Three hours*
 Continuation of 303, which is prerequisite.

Psychology

PROFESSORS DALING, JAARSMA, AND PLANTINGA;
 DEAN LUCASSE

- 201.** GENERAL PSYCHOLOGY *Three hours*
 An introductory course intended to give the beginner some orientation to the field of psychology in general in respect to viewpoints, methods, and assumptions; the major emphasis is on the motivational, emotional, and cognitional aspects of the normal adult human being. It is advisable that the student have had a course in human physiology. Not open to freshmen, except by special permission.
- 202.** EDUCATIONAL PSYCHOLOGY *Three hours*
 A psychological study of the forming of personality as it takes place in the classroom of the elementary and secondary schools. The course seeks to develop a sound foundation in principle and in fact for the understanding of a child in the learning process. The observed facts of child life with reference to the classroom are interpreted according to the Scriptural doctrine of man and the Scriptural mandate in education. Psychology 201, or its equivalent, is a prerequisite.
- 204.** CHILD PSYCHOLOGY *Three hours*
 A study of the physical, motor, social, emotional, linguistic, intellectual and valuational development of the child. An attempt is made to trace these aspects of the human being's development from babyhood through adolescence. 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 other 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

PROFESSORS RYSKAMP AND BOUMA; DR. G. HEYNS; MR. T. ROTTMAN,
MR. R. NAGELKIRK

A candidate for the A.B. degree in the General College course or in the Education course may select sociology as a major field. He should complete the subjects prescribed for the General College (see p.) or the Education course (see p.). To complete the major group (Group III) requirements he should elect 24 hours in sociology.

A student who expects to enter a graduate school of social work should elect sociology as his major subject. The 24 hours must include courses 203, 204, 210, 304, 305, 315. Psychology should be elected as a minor.

A student who expects to do graduate work in sociology should elect courses 203, 204, 317, 318, 320.

203. **PRINCIPLES OF SOCIOLOGY** *Three hours*
A study of the structure, functions and changes of social groups, stressing the important role that group relationships play 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** *Three hours*
 A comparative analysis of culturally variant rural and urban communities in the United States. The emphasis is on function, process, value systems and styles of life, rather than on community structure. The suburban, or "fringe" development is considered as well as rural-urban relationships. 203 is a prerequisite except for those who are working towards a two-year State Limited Certificate.
- 208. COMMUNITY RECREATION (Phys. Ed. 204)** *Two hours*
 Especially for pre-social work students. Taught in Department of Physical Education.
- 210. SOCIAL PSYCHOLOGY (Psych. 210)** *Three hours*
 This course is described under Psychology. Credit may be applied either as Sociology or Psychology.
- 303. LABOR PROBLEMS** *Three hours*
 This course is described under Economics.
- 304. THE FAMILY** *Three hours*
 This course aims at an intensive study of the history of the family as a social and educational institution, and at a thorough discussion of the divorce problem and other problems connected with modern family life. Prerequisites: 203 and 204, or their equivalents.
- 305. THE FIELDS OF SOCIAL WORK** *Three hours*
 A survey of the various types of social work, including individual case work, group work, and community organization. Agencies set up to work with deviate forms of behavior and situations are studied both theoretically and in operation. Should be valuable for teachers as well as those contemplating doing social work.
- 306. CRIMINOLOGY AND DELINQUENCY** *Three hours*
 A study of the primary and secondary causes for, manifestations of, and ameliorative and preventive programs for criminal and delinquent behavior. Emphasis is placed on the implications for various community institutions, including school and church.
- 309. EDUCATIONAL SOCIOLOGY** *Three hours*
 This course is offered in the department of Education.
- 315. INTRODUCTION TO SOCIAL WORK** *Two hours*
 The analysis of social work principles, problems, and methods based upon theoretical and case material. Prerequisite: three courses in Sociology. Admission by permission of Sociology adviser. Open to seniors and to selected juniors.
- 317. SOCIAL ANTHROPOLOGY** *Three hours*
 A study of the origin and development of culture with a critical survey of prevailing theories of cultural origins such as social evolution and cultural relativism. The course will include a comparative analysis of social institutions and culture patterns, those of the United States and of widely different societies, past and present.

318. HISTORY OF SOCIOLOGY *Three hours*
The development of sociology, including its European back-grounds and early beginnings in the Twentieth Century in America. Calvinistic appraisal of sociological pioneers.
320. PROSEMINAR IN SOCIOLOGICAL RESEARCH *Three hours*
How to set up a problem for research, techniques of collecting data, sources of data, uses of tables and charts, and the preparation of research reports. Prerequisite: At least 12 hours of Sociology. Open to seniors and selected juniors by permission. Taught both semesters.
- 330m. METHODS OF TEACHING SOCIAL PROBLEMS *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

ASSISTANT PROFESSORS BERGHUIS AND DE KOSTER; INSTRUCTORS JANSSEN, MRS. E. BOEVE; MR. J. NEDERHOED, MR. VOS

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.
106. DICTION FOR THE FOREIGN STUDENT *Non-Credit*
Particularly designed to aid the foreign student taking the pre-seminary course who has not completely mastered the English language. Intensive drill in phonetics. Open to others by permission.
202. PARLIAMENTARY PROCEDURE *One hour*
A study of the basic principles of parliamentary procedure. Opportunity will be given for developing skill in the handling of the rules of parliamentary procedure. Especially recommended for pre-seminary, pre-law, and education students.
204. ANCIENT ORATORS AND THEORIES OF SPEECH *Two hours*
Analytical study of ancient orators and rhetorical theory, pre-Demosthenes through Quintilian. Not open to freshmen.
205. ADVANCED SPEECH COMPOSITION *Two hours*
Study of the psychological and rhetorical techniques involved in speech composition. Speeches and oration. Intended particularly for juniors in the pre-Seminary course.
207. INTRODUCTION TO SPEECH BASED ON THE GREAT BOOKS *One hour*
Prerequisite to Course 208. A study of Adler's *How to Read a Book* intended to prepare the student for careful and critical reading of the Great Books chosen as basic for work in 208. Open to freshmen by permission.

- 202. SPEECH BASED ON THE GREAT BOOKS** *Two hours*
 Each student will choose one of the books from the Adler list and use it as a basis for his speeches during the semester. Emphasis on speech. Prerequisite: Course 207.
- 205. PRINCIPLES OF SPEECH CORRECTION** *Two hours*
 A one-semester course especially designed for the elementary and secondary school teachers. A detailed study will be made of the types, nature, and causes of speech defects, as well as of the principles and methods of speech correction.
- 203. PRINCIPLES OF DRAMATIC PRODUCTIONS** *Three hours*
 A study of the theory and principles of drama as revealed in representative plays from the Greek through the modern period. With a view to training the prospective coach, attention will be given to the technical aspects of production. Students will be trained in acting and in directing by means of classroom presentations of dramatic scenes.
- 204. ADVANCED SPEECH** *Two hours*
 A practice course, designed for pre-Seminary students. Open to others only by permission.
- 203. INTERPRETATIVE READING** *Three hours*
 The principles and techniques of interpretation and expression. Oral interpretation of prose and poetry. Intensive study of representative selections.
- 204. ADVANCED INTERPRETATION** *Three hours*
 Continuation of 303. Application of its principles to drama. Study of development from Greek to modern drama. Collateral reading.
- 203. SPEECH FOR THE CLASSROOM TEACHER** *Three hours*
 Designed to: (1) improve the prospective teacher's vocal habits; (2) train the student in the use of the International Phonetic Alphabet; (3) aid the prospective teacher in handling speech improvement in the classroom.
- 204. METHODS OF TEACHING SPEECH** *One hour*
 Methods of teaching speech in the secondary schools. Attention will be given to the handling of extracurricular forensic activities and assembly programs. Prerequisite: a minor in speech.

FORENSICS

- 209. INTERCOLLEGIATE PEACE ORATORY** *One hour per year*
- 211. INTERCOLLEGIATE ORATORY** *One hour per year*
- 213. INTERCOLLEGIATE EXTEMPORANEOUS SPEAKING** *One hour per year*
- 208. THESPIAN PRODUCTIONS** *One hour per year*
 Membership in the Thespian group is limited and is determined annually by tryout. The members will be given training in the various practical aspects of the production of drama. Students may participate more than one year. The activity runs through the school year.
- 210. INTERCOLLEGIATE INTERPRETATIVE READING** *One hour per year*
- 212. INTERCOLLEGIATE DEBATING**
 League Debaters *Two hours per year*
 Tournament Debaters *One hour per year*

SUMMARY OF ENROLLMENT

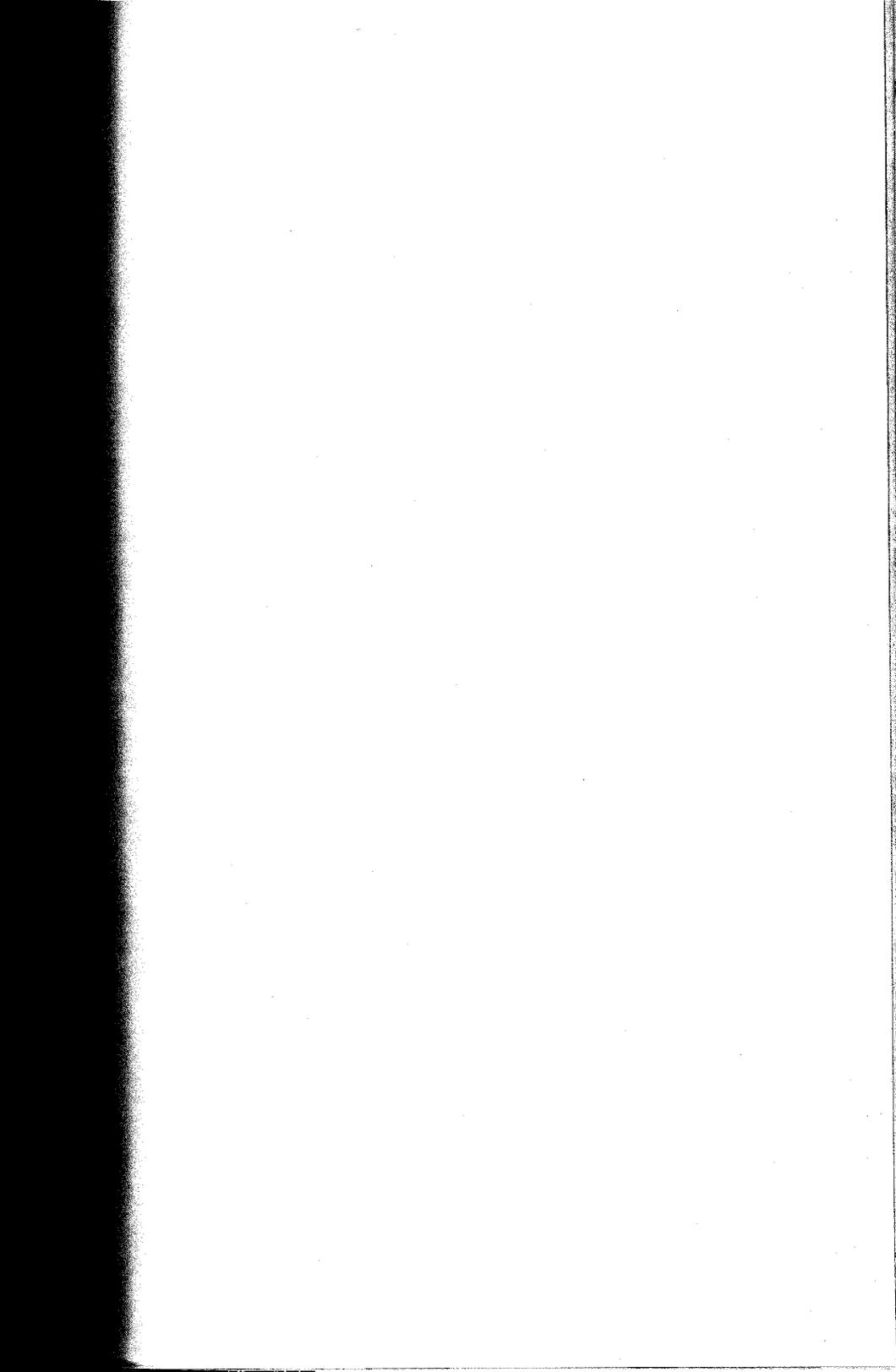
Fall 1955 and Summer 1956

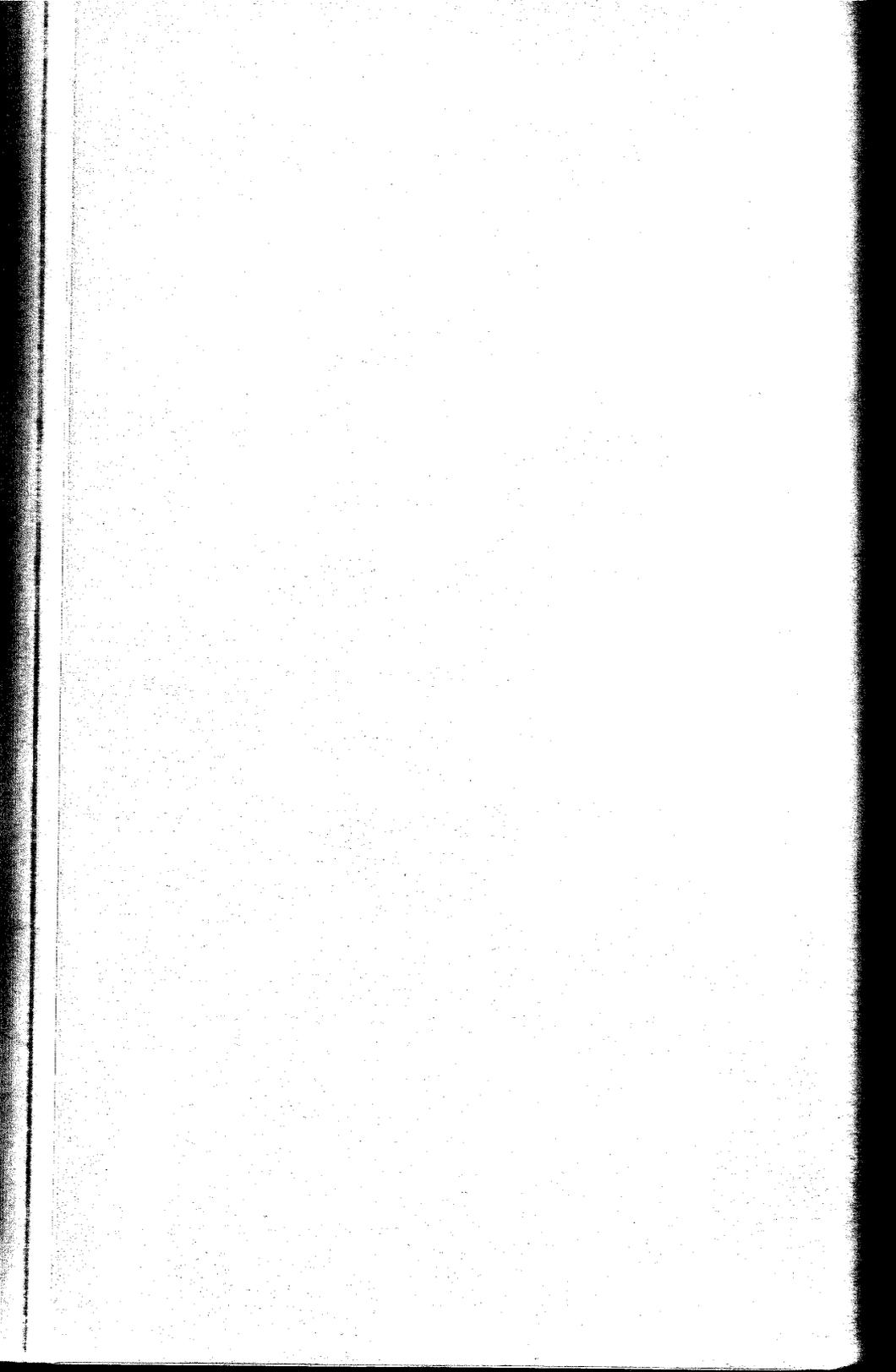
Seniors	199
Juniors	305
Sophomores	401
Freshmen	574
Unclassified	62
Summer School, 1955	404
Total	<u>1945</u>

Bequests

Friends wishing to make donations, conveyances or bequests to Calvin College and Seminary may use the following legal form of bequest:

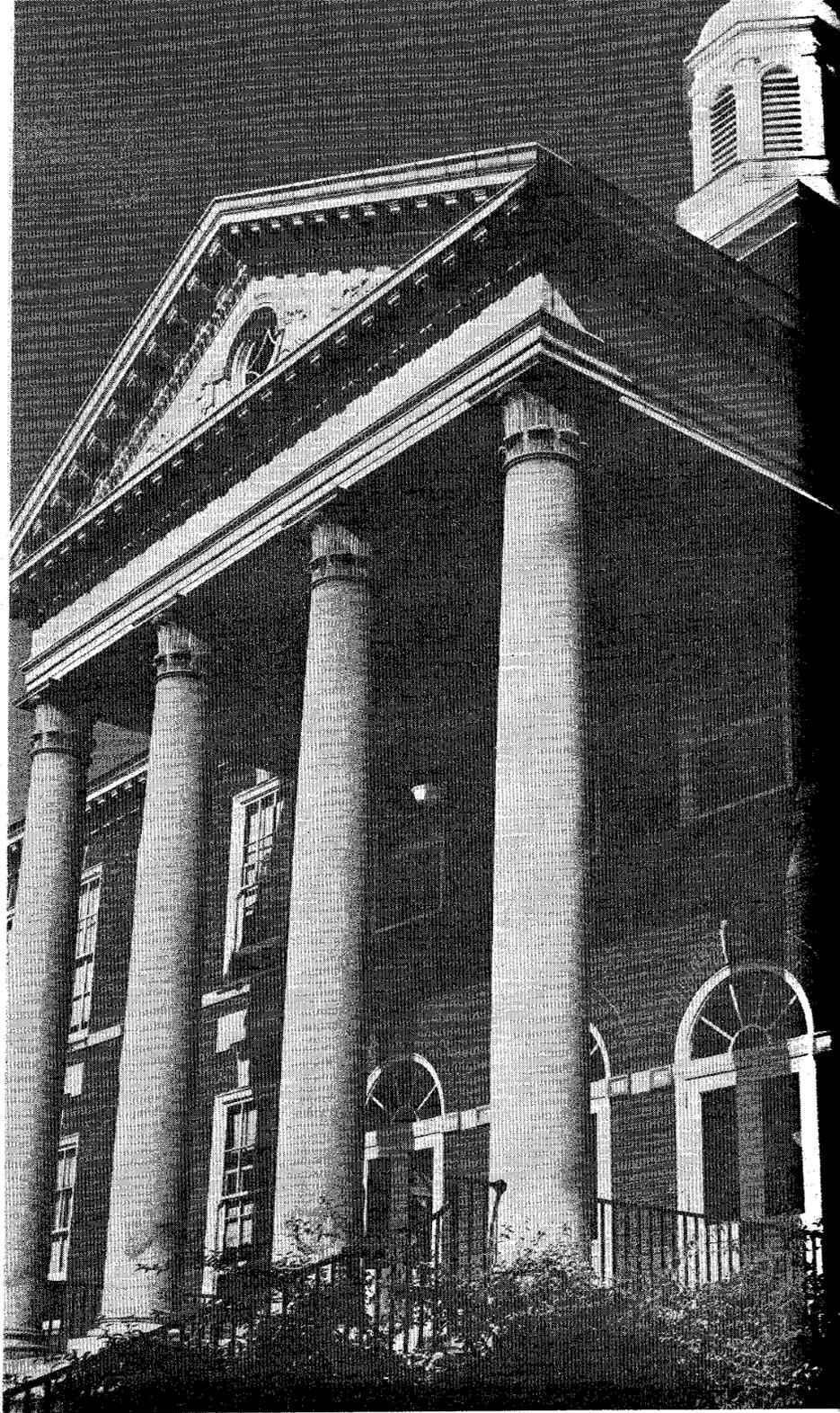
"I hereby give, devise, and bequeath unto Calvin College and Seminary, a corporation organized and existing under the laws of the State of Michigan, the sum of Dollars, to be paid out of any real or personal estate owned by me at my decease."







COMMONS BUILDING



ADMINISTRATION BUILDING

