

# *Calvin College*

An Institution of the Christian Reformed Church

**BULLETIN**

**Catalog Issue 1966-1967**

**GRAND RAPIDS, MICHIGAN 49506**

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## CORRESPONDENCE

All correspondence should be sent to Calvin College, Grand Rapids, Michigan 49506. Specific inquiries and requests should be directed as follows:

### **Vice President for Student Affairs**

Applications for Scholarships  
Information for foreign students

### **Coordinator of Admissions and Student Financial Aid**

Information concerning Admissions  
Applications for Admissions  
Financial Aids  
College Work-Study Program

### **Registrar**

Catalogs  
Information concerning graduation  
Transcripts of record  
Selective Service information

### **Dean of Students**

Housing for men students  
Off-campus employment  
Campus employment  
Graduate placement  
Counselling

### **The Dean of Women**

Housing for women students  
Domestic employment for women students

### **College Chaplain**

Religious life of the college  
Chapel arrangements

### **Director of College Relations**

Gifts and bequests

### **Education Department**

Teacher Education  
Certification  
Teaching positions after graduation

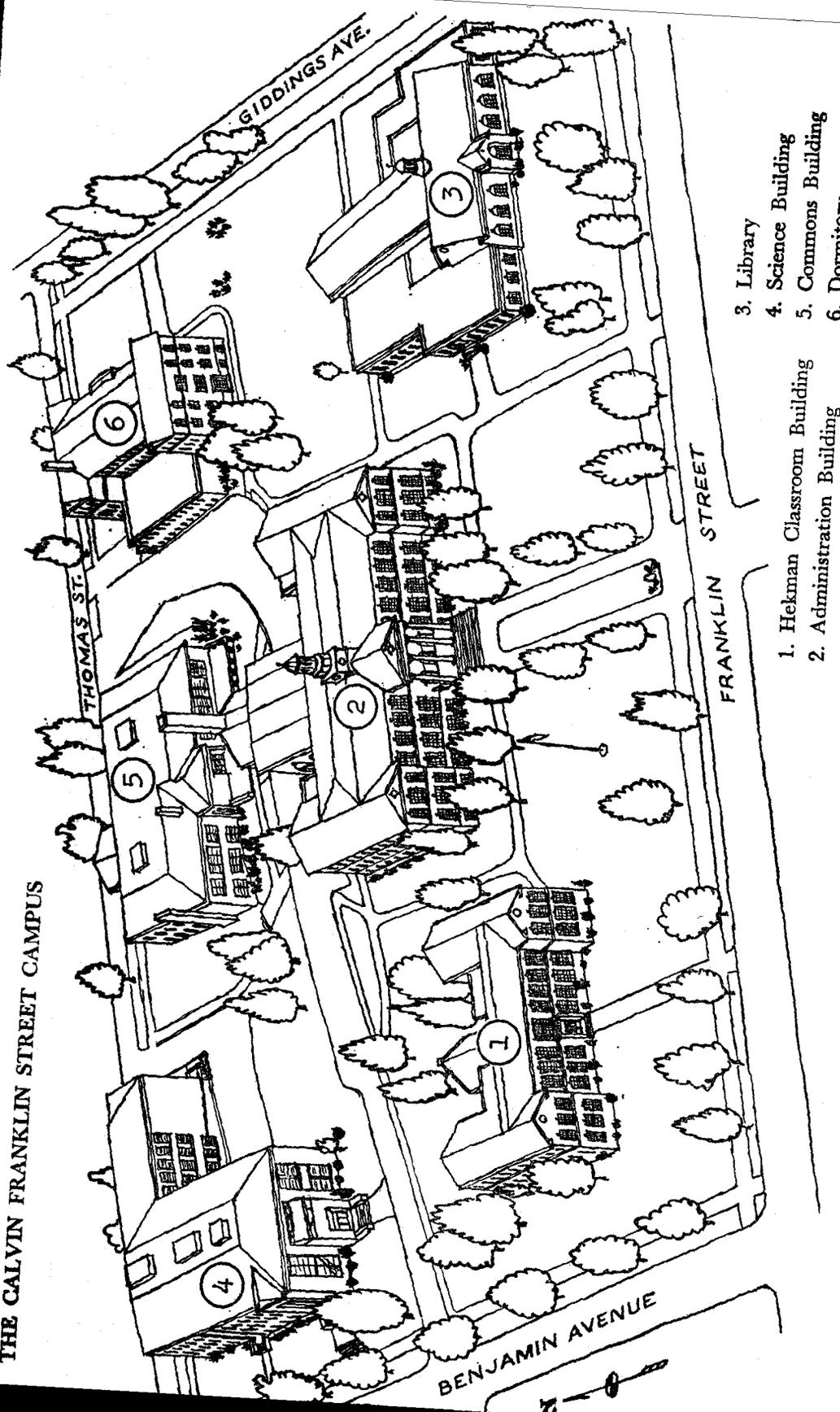
### **Coordinator of Alumni Relations and College Information**

Alumni matters

### **Business Office**

Payment of bills  
Business matters

THE CALVIN FRANKLIN STREET CAMPUS



- 1. Hekman Classroom Building
- 2. Administration Building
- 3. Library
- 4. Science Building
- 5. Commons Building
- 6. Dormitory

# THE CALVIN KNOLLCREST CAMPUS

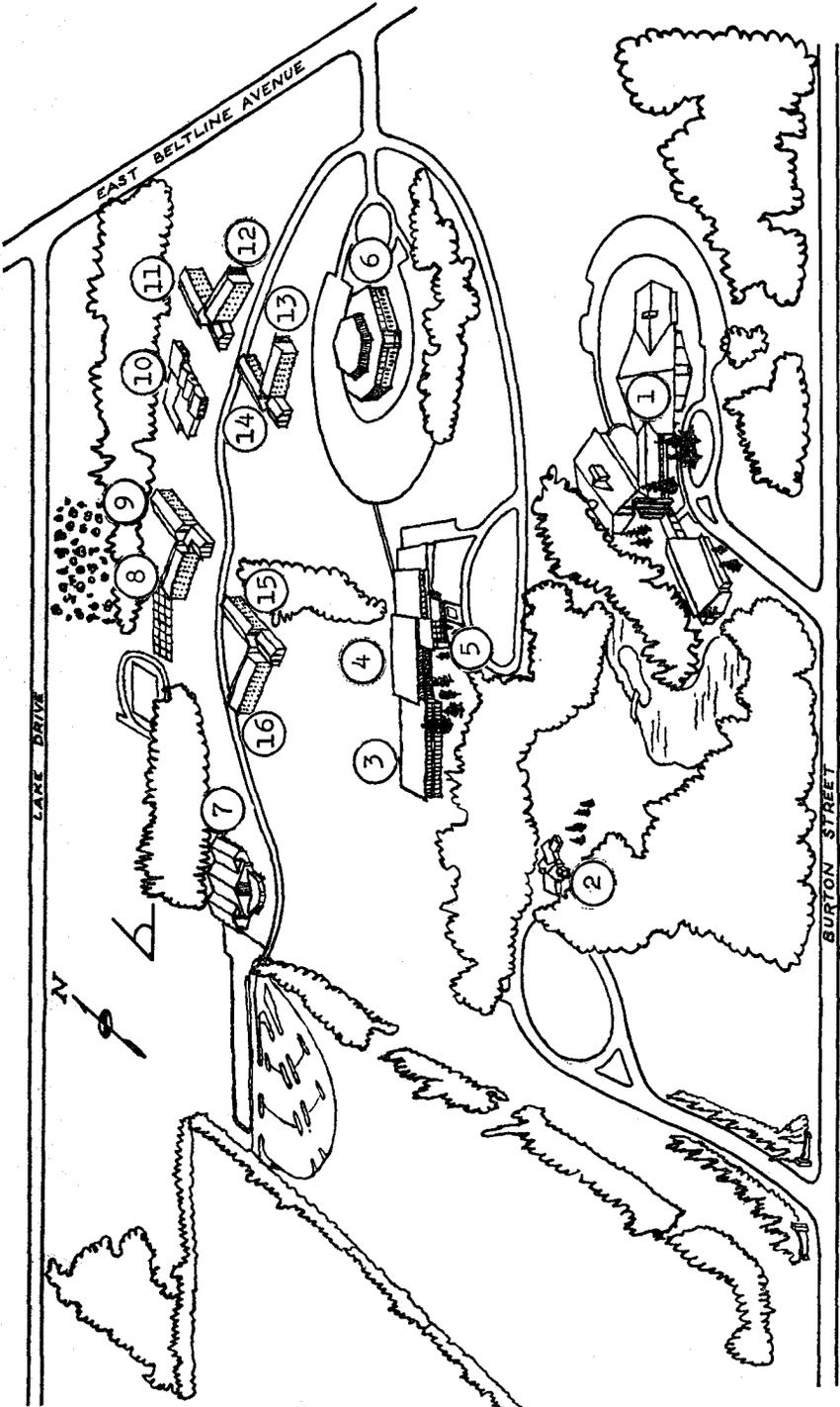
1. Seminary
2. Manor House—  
Calvin  
Hospitality  
Center

## Library-Classroom Building:

3. Hiemenga Hall
4. Library
5. Heritage Hall
6. Fine Arts Center
7. Physical Edu-  
cation Building

## Residence Area:

8. Noordewier Hall
9. Vander Werp  
Hall
10. Dining Hall
11. Veenstra Hall
12. Beets Hall
13. Schultze Hall
14. Eldersveld Hall
15. Van Dellen Hall
16. Rooks Hall





# CALENDAR FOR 1966-'67

## 1966

September	7	Wednesday	.....Faculty Conference
September	8-13	Thursday through Tuesday	.....Freshman Orientation
September	9	Friday	.....Registration of Freshmen by alphabetical groups
September	12-13	Monday and Tuesday	.....Registration of Sophomores, Juniors, and Seniors by alphabetical groups
September	14	Wednesday, 10:00 a.m.	.....Convocation
		11:00 a.m.	.....Faculty reception for new students
		12:00 noon	.....Classes begin - Franklin campus
		12:30 p.m.	.....Classes begin - Knollcrest campus
November	23	Wednesday, 12:00 noon	.....Thanksgiving recess begins
November	28	Monday, 8:00 a.m.	.....Classes resume
December	22	Thursday, 8:00 a.m.	.....Christmas vacation begins

## 1967

January	5	Thursday, 8:00 a.m.	.....Classes resume
January	13	Friday, 9:00 a.m.	.....Final examinations begin
January	21	Saturday, 12:00 noon	.....First semester ends
January	23-24	Monday and Tuesday	.....Registration for second semester
January	25	Wednesday, 8:00 a.m.	.....Second semester begins
March	24	Friday, 8:00 a.m.	.....Spring vacation begins
April	5	Wednesday, 8:00 a.m.	.....Classes resume
May	3	Wednesday	.....Honors Convocation
May	22	Monday, 10:00 a.m.	.....Final examinations begin
May	27	Saturday	.....Commencement

## Summer Session

June	12	Monday	.....Eight-week session begins
June	26	Monday	.....Six-week session begins
August	4	Friday	.....Summer Session ends

## Regular Session — 1967-'68

August	29	Tuesday	.....Faculty Conference
Aug. 30 - Sept.	4	Wednesday through Monday	.....Freshman Orientation
August	31	Thursday	.....Freshman Registration
September	1-2	Friday and Saturday	.....Registration of Sophomores, Juniors, and Seniors by alphabetical groups
September	5	Tuesday, 10:00 a.m.	.....Convocation
		11:00 a.m.	.....Faculty reception for new students
		12:00 noon	.....Classes begin - Franklin campus
		12:30 p.m.	.....Classes begin - Knollcrest campus

## BOARD OF TRUSTEES

(As of July 1, 1966)

- The Rev. J. W. Van Weelden.....5020 - 43rd Ave., Red Deer, Alta., Canada  
(*Classis Alberta North*)
- The Rev. M. Greidanus.....414 - 4th St. N.W., Medicine Hat, Alberta, Canada  
(*Classis Alberta South*)
- The Rev. T. Heyboer.....2026 McCallum Rd., RR 5, Abbotsford, B. C., Canada  
(*Classis British Columbia*)
- The Rev. M. Bolt.....RR 3, Marion, Mich. 49665  
(*Classis Cadillac*)
- The Rev. H. Radius.....1135 Church St., Redlands, Cal. 92373  
(*Classis California South*)
- The Rev. G. Kok.....2175 N. Leoni Dr., Hanford, Cal. 93230  
(*Classis Central California*)
- The Rev. G. Bouma.....857 Riverside Dr., London, Ontario, Canada  
(*Classis Chatham*)
- The Rev. O. Breen.....10349 Kedvale Ave., Oak Lawn, Ill. 60453  
(*Classis Chicago North*)
- The Rev. J. C. Scholten.....2904 Garfield St., Highland, Ind. 46322  
(*Classis Chicago South*)
- The Rev. J. O. Schuring.....1040 S.W. 1st St., Boca Raton, Fla. 33432  
(*Classis Florida*)
- The Rev. J. Van Harmelen.....1177 Kingston Rd., RR 2, Whitby, Ont., Canada  
(*Classis Eastern Ontario*)
- The Rev. H. De Mots.....1740 Lyon St., N.E., Grand Rapids, Mich. 49503  
(*Classis Grand Rapids East*)
- The Rev. A. Brink.....2129 Jefferson Dr., S.E., Grand Rapids, Mich. 49507  
(*Classis Grand Rapids South*)
- The Rev. R. Rienstra.....300 Sligh Blvd., N.E., Grand Rapids, Mich. 49505  
(*Classis Grand Rapids West*)
- The Rev. C. Greenfield.....1271 Lee St., S.W., Wyoming, Mich. 49509  
(*Classis Grandville*)
- The Rev. D. Oostenink.....52 Summer St., Passaic, N.J. 07055  
(*Classis Hackensack*)
- Dr. P. Schrottenboer.....729 Upper Gage Ave., Hamilton, Ont., Canada  
(*Classis Hamilton*)
- Dr. J. T. Hoogstra.....161 E. 27th St., Holland, Mich. 49423  
(*Classis Holland*)
- The Rev. J. Hasper.....92 Maltbie Ave., Ridgewood, N.J. 07450  
(*Classis Hudson*)
- The Rev. E. C. Dykstra.....128 Merwood Dr., Battle Creek, Mich. 49017  
(*Classis Kalamazoo*)
- The Rev. J. M. Hofman.....238 Marshall St., Lansing, Mich. 48912  
(*Classis Lake Erie*)
- The Rev. R. Evenhuis.....Box 97, Pease, Minn. 56363  
(*Classis Minnesota North*)
- The Rev. H. Entingh.....Box 277, Leota, Minn. 56153  
(*Classis Minnesota South*)

- The Rev. M. Vanderwerp.....218 N. Division Ave., Spring Lake, Mich. 49456  
(*Classis Muskegon*)
- The Rev. M. Stegink.....RR 2, Grundy Center, Iowa 50638  
(*Classis Northcentral Iowa*)
- The Rev. J. H. Rubingh.....804 Humiston, Worthington, Minn.  
(*Classis Orange City*)
- The Rev. A. Cammenga.....16013 - 32nd Ave., Seattle, Wash. 98155  
(*Classis Pacific*)
- The Rev. W. De Vries.....320 N. 6th St., Oskaloosa, Iowa 52577  
(*Classis Pella*)
- The Rev. D. Vander Wall.....2434 E. Earll Dr., Phoenix, Ariz. 85016  
(*Classis Rocky Mountain*)
- The Rev. P. De Boer.....2704 S. Holly Ave., Sioux Falls, S.D. 57105  
(*Classis Sioux Center*)
- The Rev. P. M. Jonker.....267 Main St. N., Brampton, Ont., Canada  
(*Classis Toronto*)
- The Rev. J. H. Olthoff.....920 Center Ave., Oostburg, Wis. 53070  
(*Classis Wisconsin*)
- The Rev. E. Oostendorp.....11342 Brown St., Allendale 49401  
(*Classis Zeeland*)
- P. Berkhout, M.D.....106 Haledon Ave., Prospect Park, Paterson, N.J.  
(*Eastern District*)
- H. Triesenberg, A.M.....1172 S. Taylor Ave., Oak Park, Ill.  
R. Hoekstra, A.B.....1031 Parmalee Ave., N.W., Grand Rapids, Mich.  
H. Kreulen, M.D.....2452 Godwin Ave., S.E., Grand Rapids, Mich.  
P. Cooper, D.D.S.....2429 N. 5th St., Sheboygan, Wis.  
W. De Young, D.D.S.....2452 Union, S.E., Grand Rapids, Mich.  
R. Goldsword.....31299 Northwood Dr., Cleveland 24, Ohio  
(*Central District*)
- H. De Groot, M.B.A., C.P.A.....1221 S. Duluth, Sioux Falls, S.D. 57105  
(*Midwest District*)
- J. Hoekzema, M.D.....17139 Bellflower Blvd., Bellflower, Cal. 90706  
(*Far West District*)

#### OFFICERS (as of February, 1966)

- President* — the Rev. H. De Mots  
*First Vice President* — Dr. J. T. Hoogstra  
*Second Vice President* — the Rev. C. Greenfield  
*Secretary* — the Rev. E. H. Oostendorp  
*Assistant Secretary* — Mr. R. Goldsword  
*Treasurer* — Mr. Richard Hoekstra

#### PAST PRESIDENTS OF CALVIN COLLEGE

- |  |           |
|--|-----------|
| The Rev. John J. Hiemenga, A.M., B.D.          | 1919-1925 |
| Prof. Johannes Broene, A.M. (Acting President) | 1925-1926 |
|  | 1926-1930 |
| The Rev. Rienk B. Kuiper, A.M., B.D.           | 1930-1933 |
| Ralph Stob, Ph.D.                              | 1933-1939 |
| Prof. Johannes Broene, A.M. (Acting President) | 1939-1940 |
| The Rev. Henry Schultze, A.B., B.D.            | 1940-1951 |

# ADMINISTRATIVE OFFICERS AND PERSONNEL

## OFFICERS OF ADMINISTRATION

### Academic

William Spoelhof, Ph.D.....	President
John Vanden Berg, Ph.D.....	Vice President and Dean of the College
Melvin Berghuis, Ph.D.....	Vice President for Student Affairs
Lester De Koster, A.M.L.S., Ph.D.....	Director of the Library
Philip R. Lucasse, A.M.....	Dean of Students
Catherine W. Van Opynen, A.M., A.M. in Ed.....	Dean of Women
Bernard E. Pekelder, Th.B., M.A.....	College Chaplain
Peter Vande Guchte, M.B.A.....	Registrar
Donald Lautenbach, A.M.....	Coordinator of Admissions and Student Financial Aid

### Business

Henry De Wit, M.B.A. (C.P.A.).....	Vice President of Business and Finance
Lester Ippel .....	Controllor

### College Relations

Sydney T. Youngsma.....	Director of College Relations
James P. Hoekenga, A.M.....	Coordinator of Alumni Relations and College Information

## HEALTH SERVICE

Staff available at the Health Center:

Harvey Bratt, M.D., 833 Lake Drive, S.E., GL 1-0766
10:00 to 11:00 a.m. on Wednesday; 8:30 to 9:30 a.m. on Thursday
Laurence H. Feenstra, M.D., 833 Lake Drive, S.E., GL 9-0213
8:30 to 9:30 a.m., Monday, Tuesday, Friday
Mrs. Ann Trap, R.N., 940 - 33rd Street, S.E., 245-4710

## PSYCHOLOGICAL INSTITUTE

Telephone: 241-2606	
Hours: 8:30 a.m. to 4:30 p.m., Monday through Friday	
Roelof J. Bijkerk, Ph.D., Associate Professor of Psychology .....	Director
*Corrine E. Kass, Ph.D., Associate Professor of Education .....	Consultant, Special Education
Duane G. Kuik, A.B. ....	Diagnostic and Remedial Educational Specialist
Alfred J. Reynolds, Ph.D., Assistant Professor of Psychology .....	Consultant for Educational and Psychological Measurements
Leonard Vander Linde, Ph.D. (By appointment) .....	Consulting Psychologist
Telephone: GL 6-5403	

## OFFICE PERSONNEL

### Academic Office

Beverly Bierma .....	Transcript Clerk
Barbara Bolthouse .....	Clerk, Admissions and Financial Aid
Katherine De Boer .....	Secretary to Coordinator of Admissions and Student Financial Aid
Janice Hulbert .....	Secretary to the Registrar
Mieke Ten Harmsel .....	Switchboard Operator-Receptionist
Helen Vander Veen.....	Secretary to the Vice President for Student Affairs
Adeline Veen.....	Secretary to the Vice President and Dean of the College
Carol Veen.....	Secretary to the President

\*On leave of absence 1966-'67.

**Bookstore**

Connie Klomp ..... Clerk  
 Janna Poel ..... Manager  
 Ruth Umstead ..... Clerk, Concessions Stand

**Business Office**

Alida Akker ..... Clerk, Alumni Office  
 Jo Haan ..... Secretary to College Relations and Business Officers  
 Christine Ham ..... Payroll Clerk  
 George Kamp ..... Statistician  
 Elmer Kroeze ..... Manager of the Supply Office  
 Bernard Ondersma ..... Development Representative  
 Joe Orlebeke ..... Development Representative  
 Ruth Peuler ..... Clerk, Supply Office  
 Phyllis Roelofs ..... Clerk, Knollcrest Bookstore and Business Office  
 Dorothy Stuursma ..... Building Fund Bookkeeper  
 Edward Timmer ..... Bookkeeper  
 Cora Van Huesen ..... Revenue and Student Accounts Clerk  
 Florence Wiebenga ..... Building Fund Clerk

**Chaplain's Office**

Josephine Waalkes ..... Secretary to the College Chaplain

**Data Processing Office**

Kathleen Jager ..... Key punch Operator  
 Gordon Lewis ..... Data Processing Manager

**Education Office**

Jeneveine Candler ..... Receptionist and Clerk  
 Ethel De Leeuw ..... Secretary to the Department Chairman

**Library**

Carol Heyboer ..... Assistant  
 Edith Kamper ..... Assistant  
 Marguerite Kamper ..... Secretary

**Music Office**

Marlene Bytwork ..... Department Secretary

**Physical Education Office**

Nancy Rietema ..... Department Secretary

**Psychological Institute**

Susan Kwant ..... Psychology Department Secretary  
 Jan Straayer ..... Institute Secretary

**Student Personnel Office**

Gretchen Bensema ..... Secretary to the Dean of Students  
 Jacob Bosscher ..... Housing Officer  
 Irene Donahue ..... Desk Supervisor, Knollcrest Residence Hall  
 Wilma Ford ..... Secretary to the Dean of Women  
 Andrew J. Haan ..... Counseling and Graduate Placement Clerk  
 John Helder ..... Parking Officer  
 Margaret Swagman—Receptionist, Library Classroom Building; Campus Parking

**HOUSING**

Gezina Kingma ..... Resident Director, Noordewier-Vander Werp Hall  
 Deane Koerner ..... Resident Director, Franklin Campus Dormitory  
 Annette Medendorp ..... Resident Director, Eldersveld-Schultze Hall  
 Marie Spaan ..... Resident Director, Rooks-Van Dellen Hall

**MAINTENANCE**

Peter De Loof ..... Chief Engineer

## THE FACULTY\*

WILLIAM SPOELHOF, Ph.D., *President*

### EMERITI

JACOB G. VANDEN BOSCH, A.B., *Professor of English Language and Literature, Emeritus*

ALBERT E. BROENE, A.B., *Professor of Modern Languages, Emeritus*

JOHANNES BROENE, A.M., *Professor of Education and Psychology, Emeritus*

HENRY J. G. VAN ANDEL, A.M., *Professor of Language and Culture of the Netherlands, Emeritus*

HENRY J. RYSKAMP, Ph.D., *Dean of the College, Emeritus; Professor of Economics and Sociology, Emeritus*

W. HARRY JELLEMA, Ph.D., *Professor of Philosophy, Emeritus*

HENRY VAN ZYL, Ph.D., *Professor of Educational Methods, Emeritus*

HARRY G. DEKKER, M.S., *Registrar, Emeritus; Professor of Chemistry, Emeritus*

EDWIN Y. MONSMA, Ph.D., *Professor of Biology, Emeritus*

HARRY J. WASSINK, A.B., B.S., *Professor of Engineering, Emeritus*

ALBERT H. MUYSKENS, A.M., *Professor of Mathematics, Emeritus*

RICHARD DROST, Ph.D., *Professor of History, Emeritus*

JOHN WEIDENAAR, Th.M., *Associate Professor of Religion and Theology, Emeritus*

HELEN VAN LAAR, A.M., *Assistant Professor of Art, Emeritus*

JOSEPHINE BAKER, A.M., A.M.L.S., *Librarian, Emeritus*

### PROFESSORS

SEYMOUR SWETS, M.A., *Professor of Music*

JOHN DE VRIES, Ph.D., *Professor of Chemistry*

WILLIAM T. RADIUS, Ph.D., *Professor of Classical Languages*

JOHN J. TIMMERMAN, Ph.D., *Professor of English*

JOHN T. DALING, Ph.D., *Professor of Psychology*

BERNARD FRIDSMA, Ph.D., *Professor of Modern Languages*

EARL STRIKWERDA, Ph.D., *Professor of History*

\*Alphabetical directory of administration and faculty members is given on pg. 124.

- JOHN H. BRATT, Th.D., *Professor of Religion and Theology*
- LESTER DE KOSTER, A.M.L.S., Ph.D., *Director of the Library; Professor of Speech*
- THEDFORD DIRKSE, Ph.D., *Professor of Chemistry*
- CLARENCE BOERSMA, Ph.D., *Professor of Modern Languages*
- JOHN L. DE BEER, Ed.D., *Professor of Education*
- ENNO WOLTHUIS, Ph.D., *Professor of Chemistry*
- MELVIN E. BERGHUIS, Ph.D., *Vice President for Student Affairs; Professor of Speech*
- JOHN VANDEN BERG, Ph.D., *Vice President and Dean of the College; Professor of Economics*
- CORNELIUS A. PLANTINGA, Ph.D., *Professor of Psychology*
- HENRY P. IPPEL, Ph.D., *Professor of History*
- H. EVAN RUNNER, Th.M., Ph.D., *Professor of Philosophy*
- GEORGE G. HARPER, JR., Ph.D., *Professor of English*
- WALTER LAGERWEY, Ph.D., *Professor of Modern Languages*
- ROBERT T. OTTEN, Ph.D., *Professor of Classical Languages*
- BARNEY STEEN, Ed.D., *Professor of Physical Education*
- JOHN VAN BRUGGEN, Ph.D., *Professor of Education*
- JOHN HAMERSMA, S.M.D., *College Organist; Professor of Music*
- PETER OPPEWALL, Ph.D., *Professor of English*
- RICHARD R. TIEMERSMA, Ph.D., *Professor of English*
- STEVE J. VAN DER WEELE, Ph.D., *Professor of English*
- HERMAN BROENE, Ph.D., *Professor of Chemistry*
- CARL J. SINKE, Ph.D., *Professor of Mathematics*
- TONY BROUWER, Ph.D., *Professor of Economics*
- CLIFTON J. ORLEBEKE, Ph.D., *Professor of Philosophy*
- M. HOWARD RIENSTRA, Ph.D., *Professor of History*
- LEWIS B. SMEDES, Th.D., *Professor of Religion and Theology*
- BERNARD J. TEN BROEK, Ph.D., *Professor of Biology*
- CHARLES J. MILLER, Ph.D., *Professor of History*
- NICHOLAS P. WOLTERSTORFF, Ph.D., *Professor of Philosophy*
- J. MARION SNAPPER, Ed.D., *Professor of Education*
- TUNIS PRINS, Ph.D., *Professor of Philosophy*

**BERT P. BOS**, Ed.D., *Coordinator of Placement and Certification and Education Department Field Services*

**DIRK W. JELLEMA**, Ph.D., *Professor of History*

**ALVIN C. PLANTINGA**, Ph.D., *Professor of Philosophy*

#### ASSOCIATE PROFESSORS

**MARTIN KARSTEN**, M.S., *Associate Professor of Biology*

**JOHN TULS**, A.M., *Associate Professor of Mathematics*

**JAMES J. DE JONGE**, M.S., M. Mus.; *Associate Professor of Music*

**THEODORE A. ROTTMAN**, Ph.D., *Associate Professor of Sociology*

**ROELOF J. BIJKERK**, Ph.D., *Associate Professor of Psychology*

**HENRY HOLSTEGE, JR.**, Ph.D., *Associate Professor of Sociology*

**GORDON J. SPYKMAN**, Th.D., *Associate Professor of Religion and Theology*

**STANLEY M. WIERSMA**, Ph.D., *Associate Professor of English*

**DONALD OPPEWAL**, Ph.D., *Associate Professor of Education*

**PAUL J. ZWIER**, Ph.D., *Associate Professor of Mathematics*

**ALAN I. GEBBEN**, M.S., Ph.D., *Associate Professor of Biology*

**ROGER D. GRIFFIOEN**, Ph.D., *Associate Professor of Physics*

**GORDON L. VAN HARN**, Ph.D., *Associate Professor of Biology*

**EDWIN J. VAN KLEY**, Ph.D., *Associate Professor of History*

**CLARENCE VOS**, Th.M. (on leave of absence 1966-'67); *Associate Professor of Religion and Theology*

**RICHARD F. WEVERS**, Ph.D., *Associate Professor of Classical Languages*

**THEODORE MINNEMA**, Th.D., *Associate Professor of Religion and Theology*

**WILLIS P. DE BOER**, Th.D., *Associate Professor of Religion and Theology*

**HENRIETTA TEN HARMSSEL**, Ph.D., *Associate Professor of English*

**CORRINE E. KASS**, Ph.D. (on leave of absence 1966-'67); *Associate Professor of Education*

**KENNETH KUIPER**, Ed.D., *Associate Professor of English*

**JOHN H. PRIMUS**, Th.D., *Associate Professor of Religion and Theology*

**AL D. BRATT**, Ph.D., *Associate Professor of Biology*

**DENNIS HOEKSTRA**, B.D., Ed.D., *Associate Professor of Education*

**DAVID E. HOLWERDA**, Th.D., *Associate Professor of Religion and Theology*

ALBION KROMMINGA, Ph.D., *Associate Professor of Physics*  
 NICHOLAS H. BEVERSLUIS, Ed.D., *Associate Professor of Education*  
 VERNON J. EHLERS, Ph.D., *Associate Professor of Physics*

ASSISTANT PROFESSORS

GERTRUDE SLINGERLAND, A.M., *Assistant Professor of English*  
 HENRY BENGELINK, M.S., *Assistant Professor of Biology*  
 CATHERINE W. VAN OYPYEN, A.M., A.M. in Ed., *Dean of Women*  
 ARTHUR J. OTTEN, M.A., *Assistant Professor of Modern Languages*  
 HENRY DE WIT, M.B.A. (C.P.A.), *Vice President of Business and Finance*  
 HAROLD P. GEERDES, A.M., *Assistant Professor of Music*  
 DAVID B. TUUK, M.A., *Assistant Professor of Physical Education*  
 JOHN DE BIE, A.M., *Assistant Professor of History*  
 PHILIP R. LUCASSE, A.M., *Dean of Students*  
 JAMES P. BOSSCHER, M.S., *Assistant Professor of Engineering*  
 DONALD E. PRUIS, M.B.A. (C.P.A.); *Assistant Professor of Economics and Business Administration*  
 MARTEN VANDE GUCHTE, M.Ed., *Assistant Professor of Speech*  
 EDGAR G. BOEVE, A.B., M.S.D., *Assistant Professor of Art*  
 ERVINA BOEVE, A.M., *Director of Drama*  
 ERNEST VAN VUGT, M.A., *Secretary of the Faculty; Assistant Professor of Classical Languages*  
 JOHAN G. WESTRA, M.A., *Assistant Professor of History and Political Science*  
 WINIFRED HOLKEBOER, A.M., *Assistant Professor of English and Modern Languages*  
 LEONARD A. VANDER LUGT, M.S., *Assistant Professor of Chemistry*  
 BERNARD B. KREUZER, M.A., *Assistant Professor of Modern Languages*  
 GERTRUDE VANDER ARK, A.M., Ed.S., *Assistant Professor of Education*  
 WALLACE H. BRATT, A.M., *Assistant Professor of Modern Languages*  
 MARVIN A. ZUIDEMA, M.A., *Assistant Professor of Physical Education*  
 HERBERT J. BRINKS, Ph.D., *Assistant Professor of History*  
 PETER P. DE BOER, A.M., *Assistant Professor of Education*  
 BERNARD E. PEKELDER, Th.B., M.A., *College Chaplain*

- GEORGE HARRIS, M.A. (on leave of absence 1966-'67); *Assistant Professor of Classical Languages*
- DAVID VILA, B.D., M.A., *Assistant Professor of Modern Languages*
- ROBERT A. JENSEN, M.F.A., *Assistant Professor of Art*
- LOUIS KUIPERS, M.B.A. (C.P.A.); *Assistant Professor of Economics*
- LEONARD SWEETMAN, JR., ThB., *Assistant Professor of Religion and Theology*
- BERNARD VAN'T HUL, M.A., *Assistant Professor of English*
- DONALD R. WILSON, B.D., A.M. (on leave of absence first semester, 1966-'67); *Assistant Professor of Sociology*
- ROBERT BOLT, Ph.D., *Assistant Professor of History*
- PAUL BOONSTRA, A.M., M.S., *Assistant Professor of Mathematics*
- JAMES H. DE BORST, A.M., *Assistant Professor of Political Science*
- ALFRED J. REYNOLDS, Ph.D., *Assistant Professor of Psychology*
- ROBERT SWIERENGA, Ph.D., *Assistant Professor of History*
- LOUIS A. VOS, Th.D., *Assistant Professor of Religion and Theology*
- G. RODERICK YOUNGS, Th.B., Ed.D., *Assistant Professor of Education*
- WILLIAM VAN DOORNE, Ph.D., *Assistant Professor of Chemistry*
- GEORGE M. MARSDEN, Ph.D., *Visiting Assistant Professor of History*

## INSTRUCTORS

- ANNETTE BUURSTRA, A.B., A.M.L.S., *Librarian*
- BARBARA SLUITER, A.B., A.M.L.S., *Librarian*
- BEVERLY J. KLOOSTER, M.S. (on leave of absence 1966-'67); *Instructor in Biology*
- MILDRED ZYLSTRA, A.B., A.M.L.S., *Instructor in English*
- WILLIAM C. HENDRICKS, M.A., *Supervisor of Student Teaching*
- LARRY R. NYHOFF, M.S., *Instructor in Mathematics*
- THOMAS J. OZINGA, M.A., *Instructor in Speech*
- RODGER R. RICE, M.A., *Instructor in Sociology*
- DORIS J. ZUIDEMA, M.A., *Instructor in Physical Education*
- CONRAD J. BULT, A.M.L.S., A.M., *Librarian*
- DONALD BYKER, A.M. (on leave of absence 1966-'67); *Instructor in Speech*
- PETER A. DE VOS, M.A., *Instructor in Philosophy*
- CORNELIUS P. HEGEWALD, M.A., *Instructor in Modern Languages*

GERTRUDE A. HUISMAN, A.M., *Instructor in Music*  
 PETER VANDE GUCHTE, M.B.A., *Registrar*  
 MYRTLE VAN LAAR, A.M., A.M.L.S., *Librarian*  
 ARNOLD VELDKAMP, M.A., *Instructor in Mathematics*  
 ANTHONY DONALD VROON, A.M., *Instructor in Physical Education*  
 MARY ANN WALTERS, M.A., *Instructor in English*  
 LOIS A. WESTRA, M.A. (on leave of absence 1966-'67); *Instructor in  
 Modern Languages*  
 MARVIN MONSMA, M.A., *Assistant Librarian*  
 JAMES CZANKO, B.S., M.A., *Instructor in Physical Education*  
 RALPH HONDERD, M.A., *Instructor in Physical Education*  
 CHRIS S. OVERVOORDE, B.S.D., M.F.A., *Instructor in Art*  
 KAREN TIMMER, M.S., *Instructor in Physical Education*  
 EVELYN WEIDENAAR, A.M., *Librarian*  
 JOHN WORST, M.A., *Instructor in Music*

#### ASSISTANT INSTRUCTORS

D. JOE KRAJENBRINK, M.A., *Assistant Instructor in Modern Languages*  
 LENORE BRASHLER, A.M., *Assistant Instructor in Modern Languages*  
 MARGARET DE BOER, A.M., *Assistant Instructor in Biology*  
 DAVID VAN HOUTEN, A.M., *Assistant Instructor in English*  
 ROBERT A. BOSSCHER, M.A., *Instructor in Economics*  
 JOHN E. BRAUN, B.D., M.A., *Assistant Instructor in Speech*  
 ELSA CORTINA, Doctora en Pedagogia, Universidad Habana, *Assistant  
 Instructor in Modern Languages*  
 SHARON HAAN, M.A., *Assistant Instructor in Education*  
 DEBORAH HESS, M.A., *Assistant Instructor in Modern Languages*  
 KATHLEEN M. TIMMER, M.S., *Assistant Instructor in Mathematics*  
 JENNIETE VANDER BERG, A.B., *Assistant Instructor in Physical Education*  
 RONALD VANDER MOLEN, M.A., *Assistant Instructor in History*

#### ASSISTANTS

HERMINE VAN NUIS, A.B., *Assistant in English*  
 JON POTT, A.B., *Assistant in English*  
 BERTA DE TORO, B.A., *Assistant in Modern Languages*  
 DAVID HOLQUIST, A.B., *Assistant in Speech*

### Committees of the Faculty

1. **ATHLETICS COMMITTEE** — J. Tuls, *Chairman and Faculty Representative on the M.I.A.A. Board*; H. Broene, W. De Boer, H. Holstege, L. Kuipers, L. Nyhoff, R. Swierenga; the Chairman of the Physical Education Department shall designate one of its members to be advisor to the committee.
2. **HONORS PROGRAM COMMITTEE** (superseding the Comprehensive Examinations Committee) — J. Vanden Berg, *Chairman*; R. Griffioen, J. Hamersma, D. Holwerda, C. Orlebeke, Robert Otten, T. Rottman, R. Tiemersma, N. Wolterstorff.
3. **COORDINATING COMMITTEE ON TEACHER EDUCATION** — J. Vanden Berg, *Chairman*; N. Beversluis, Edgar Boevé, J. De Bie, T. Minnema, B. Ten Broek, J. Van Bruggen.
4. **COUNSELING AND GUIDANCE COMMITTEE** — M. Berghuis, *Chairman*; R. Bosscher, J. Czanko, W. Holkeboer, G. Marsden, A. Reynolds, R. Rice, L. Sweetman.
5. **CURRICULUM STUDY COMMITTEE** — N. Wolterstorff, *Chairman*; G. Harper, C. Miller, G. Spykman, G. Van Harn; the Dean of the College and the President (or their representatives).
6. **DISCIPLINE COMMITTEE** — H. Rienstra, *Chairman*; D. Hoekstra, T. Ozinga, B. Steen, G. Vander Ark, L. Vander Lugt, L. Vos, R. Youngs, P. Zwier, and M. Berghuis, as Vice President for Student Affairs.
7. **EDUCATIONAL POLICY COMMITTEE** — J. Vanden Berg, *Chairman*; M. Snapper, E. Strikwerda, B. Ten Broek, J. Timmerman, N. Wolterstorff, E. Wolthuis.
8. **FACULTY SOCIAL AND SPECIAL ACADEMIC ACTIVITIES COMMITTEE** — M. Berghuis, *Chairman*; R. Bolt, H. Geerdes, C. Hegewald, G. Slingerland, H. Ten Harmsel, W. Van Doorne, D. Vila, J. Worst.
9. **LIBRARY COMMITTEE** — H. Ippel, *Chairman*; W. Bratt, R. Jensen, A. Kromminga, K. Kuiper, E. Van Kley.
10. **PRE-SEMINARY ADVISORY COMMITTEE** — B. Bos, *Chairman*; R. Bijkerk, W. Lagerwey, D. Oppewal, B. Pekelder, L. Smedes, D. Tuuk, M. Vande Guchte, R. Youngs.
11. **SCHOLARSHIP COMMITTEE** — M. Berghuis, *Chairman*; D. Lautenbach, *Secretary*; T. Brouwer, T. Dirkse, D. Jellema, A. Plantinga, J. Westra, R. Wevers; C. Miller, when 3-year M.A. Program is discussed.
12. **STUDENT PUBLICATIONS COMMITTEE** — J. Bratt, *Chairman*; J. De Bie (Prism), C. Miller (Chimes), S. Van Der Weele (Loci), S. Wiersma (Fine Arts).
13. **STUDENT RELIGIOUS AND SOCIAL ACTIVITIES COMMITTEE** — P. Lucasse, *Chairman*; H. Bengelink, J. Bosscher, P. De Boer, W. Hendricks, B. Pekelder, J. Primus, C. Sinke, P. Vande Guchte, C. Van Opynen, A. Veldkamp.

## Division and Department Chairmen for 1966-'67

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 Education, Physical Education, Philosophy, and Religion and Theology — DR. BRATT, *Chairman*.
  - a. Department of Education — DR. VAN BRUGGEN, *Chairman*.
  - b. Department of Philosophy — DR. PRINS, *Chairman*.
  - c. Department of Physical Education — DR. STEEN, *Chairman*.
  - d. Department of Religion and Theology — DR. BRATT, *Chairman*.
  
2. Division of Language, Literature, and Arts — DR. RADIUS, *Chairman*
  - a. Department of Art — PROF. BOEVE, *Acting Chairman*.
  - b. Department of Classical Languages — DR. RADIUS, *Chairman*.
  - c. Department of English — DR. TIMMERMAN, *Chairman*.
  - d. Department of Modern Languages — DR. FRIDSMA, *Chairman*.
  - e. Department of Music — DR. HAMERSMA, *Chairman*.
  - f. Department of Speech — DR. BERGHUIS, *Chairman*.
  
3. Division of Natural Science and Mathematics — DR. SINKE, *Chairman*
  - a. Department of Biology — DR. TEN BROEK, *Chairman*.
  - b. Department of Chemistry — DR. DIRKSE, *Chairman*.
  - c. Department of Engineering — PROF. BOSSCHER, *Acting Chairman*.
  - d. Department of Mathematics — DR. SINKE, *Chairman*.
  - e. Department of Physics — DR. GRIFFIOEN, *Acting Chairman*.
  
4. Division of Social Sciences — DR. IPPEL, *Chairman*
  - a. Department of Economics — DR. BROUWER, *Chairman*.
  - b. Department of History and Political Science — DR. IPPEL, *Chairman*.
  - c. Department of Psychology — DR. DALING, *Chairman*.
  - d. Department of Sociology — DR. VANDEN BERG, *Chairman*.

## COLLEGE HISTORY, OBJECTIVES, AND CONTROL

### History

The year 1876 is commonly accepted as the birth date 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 obvious today 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 classrooms 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 was 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 has gradually increased. In the year 1965-66 the Faculty consisted of 142 full-time and 31 part-time members.

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. The following figures indicate the growth.

<i>Year</i>	<i>Preparatory School</i>	<i>Junior College</i>	<i>Four-Year College</i>
1910	161	33	—
1915	239	61	—
1920	131	—	122
1930	—	—	358
1940	—	—	499
1950	—	—	1270
1955	—	—	1541
1957	—	—	1751
1958	—	—	1791
1959	—	—	1908
1960	—	—	2015
1961	—	—	2232
1962	—	—	2412
1963	—	—	2537
1964	—	—	2526
1965	—	—	2651
1966	—	—	2942

Between 1920 and 1940 the student body had increased fourfold. Then came the tidal wave of enrollments, so that today almost 3,000 young men and women are taking advantage of the educational programs which Calvin offers.

In 1961 construction began on the first college building located on the Knollcrest Campus. The freshman class which entered Calvin College in September 1962 was the first to use the new Library-Classroom Building and to occupy the new Knollcrest residence halls. The new Physical Education Building was ready for use in September, 1965. The Fine Arts Center will be ready in September, 1966.

### **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 Dordt. 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 ministers elected by the various classes and approved by Synod, and laymen elected by the Synod. This Board meets 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. It is also accredited by the American Chemical Society and by the National Council for Accreditation of Teacher Education. It is on the American Association of University Women list of institutions qualified for membership in the Association. It maintains membership in the American Council on Education, the Association of American Colleges, American Association of Colleges for Teacher Education, College Entrance Examination Board, National Education Association, and the American Mathematical Society. Calvin College graduates are admitted to the leading graduate and professional schools.

## **The Calvin Alumni Association**

The Calvin Alumni Association is composed of all students who have studied one year or more, or have completed at least twenty-five hours of course credits, at Calvin College, Calvin Seminary, the Normal Department, or the Preparatory School, and all faculty members of these institutions. The purpose of this Association is to provide an avenue whereby the alumni can indicate their attitude of continued loyalty to Calvin College and Seminary, and to demonstrate this loyalty concretely by performing appropriate services in response to the needs of the school.

The Calvin Alumni Association is governed by a Council, composed of the Executive Board and representatives of the alumni chapters. The Council meets during the first week in June. The Executive Board meets five times a year to review the work of the full-time Coordinator of Alumni Relations, make suggestions for the alumni program, and make final decisions on activities suggested by the Coordinator.

The Alumni Association maintains an office in the Administration Building on the Franklin Campus where all records are maintained and the business of the Association is conducted.

## ADMISSIONS POLICIES AND PROCEDURES

### College Entrance Examination Board Scholastic Aptitude Test

All applicants for admission to the freshman class are required to take the Scholastic Aptitude Test of the College Entrance Examination Board. The fee for this test is \$5.00 payable to the College Entrance Examination Board. Applications are available in the office of any high school principal. As the name indicates, the Scholastic Aptitude Test is a test of the candidate's aptitude for college studies. It calls for no special preparation other than that which college-bound students receive in the regular class work of their secondary school. During the academic year 1966-67 the Scholastic Aptitude Test of the College Entrance Examination Board will be given on the following dates:

Saturday, December 3, 1966	Saturday, May 6, 1967
Saturday, January 14, 1967	Saturday, July 8, 1967
Saturday, March 4, 1967	

By requiring this test the College obtains helpful and uniform counseling data on all entering students before they arrive on the campus at the beginning of the academic year to plan their program of freshman studies.

Applicants make all arrangements for taking the Scholastic Aptitude Test directly with the College Entrance Examination Board authorities. Applicants who live in the Middle West, the South, or the East in the United States and Canada, should address their inquiries to the College Entrance Examination Board, Box 592, Princeton, New Jersey. Applicants living in New Mexico, Colorado, Wyoming, and Montana and other states to the West, and those living in the Canadian provinces of Manitoba and Northwest Territory, and other provinces to the West, as well as applicants residing in Mexico, Australia, New Zealand, Tasmania, Japan, Formosa, and the Philippines, should address their inquiries to the College Entrance Examination Board, Box 1025, Berkeley, California 94701. Applicants residing in all other foreign countries, should address their inquiries to the College Entrance Examination Board, Box 592, Princeton, New Jersey. Requests to take this test should, in general, be received by the College Board four weeks in advance of the date on which the test is scheduled to be given.

Since the test scores form part of the data to be submitted at the time of application, it is necessary that the applicant take the test early. The applicant should arrange, if at all possible, to take the test in December or January.

Applicants for scholarships must take the test in December in order to meet the Scholarship Committee deadline of January 1.

### Application for Admission or Readmission

Applicants seeking admission for the first semester must submit all of their application credentials, including their scores on the Scholastic Aptitude Test, to the Office of Admissions by June 15. Those seeking

admission for the second semester must submit all of their application credentials, including their scores on the Scholastic Aptitude Test, by November 15. No application postmarked after these dates will be processed unless accompanied by a \$10 late application fee. After August 1, no application will be processed for the first semester; after January 1, no application will be processed for the second semester. Since the applications must be made on the forms provided by the College, the applicant should send for these early. The necessary forms consist of:

- Application for Admission
- Applicant's Personal Record
- Secondary-School Record
- Pastor's Recommendation
- Student 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. This form will be mailed to the consistory by the College after the applicant has been accepted for admission.

When all of the application forms and the scores on the Scholastic Aptitude Test have been received by the Office of Admissions, the Director of Admissions will notify the prospective student regarding his status of admission. At the time that an applicant is granted admission, he will also be assigned his permanent student number. Applicants who are admitted for the fall semester will receive a communication during the month of August informing them when to report for Orientation and Registration.

Prospective students should not apply for admission to Calvin College until they have reached their senior year in high school. Subjects which are in progress during the student's senior year must be included on the transcript of the high school record.

Applicants wishing to take the Nursing Program must make application with the Director of the School of Nursing at Blodgett Memorial Hospital. This application should be submitted during the early part of the senior year in high school. No application will be acted upon until all forms are at Blodgett. Admission to the Nursing Program is determined by the Admissions Committee of the Blodgett Memorial Hospital School of Nursing.

A student who withdraws from College and later wishes to re-enroll should make formal application on a readmission form provided by the College. Students seeking readmission for the first semester must submit their applications by July 1. Students seeking readmission for the second semester must submit their applications by December 1.

### **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 transcript from an accredited school.

2. Amount of work. This transcript must testify to the satisfactory completion of 15 units of work. By a unit of work is meant the equivalent of five recitations a week for 36 weeks in one branch of study.

3. Prescribed work. The 15 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:

Advanced Algebra .... 1/2 or 1 unit      Trigonometry ..... 1/2 unit  
 Solid Geometry ..... 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**

Biology ..... 1 unit      Physics ..... 1 unit  
 Botany ..... 1 unit      Zoology ..... 1 unit  
 Chemistry ..... 1 unit  
 0, 2, 3

**D. SOCIAL STUDIES GROUP**

Ancient history, 1 unit  
 European history, 1, 1 1/2, or 2 units  
 American history, 1/2 or 1 unit  
 American government, 1/2 unit  
 Economics, 1/2 unit  
 Minimum requirements from above groups ..... 10

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 Director of Admissions, 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.

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.

**PLAN B. ADMISSION BY EXAMINATION.** Applicants who are unable to furnish a transcript, and who are therefore unable to meet the first requirement of Plan A, may be admitted if, by passing examinations satisfactorily, they can meet the other requirements of Plan A. This applies especially to applicants who have successfully completed the General Educational Development tests.

**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 Veterans, Children of Disabled Veterans, and Children of Deceased Veterans**

Calvin College has been approved by the Veterans Administration as an institution of higher education for the training of discharged servicemen. Veterans and children of disabled or deceased veterans who wish to attend college should contact the nearest regional office of the Veterans Administration.

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. A maximum of 9 semester hours will be given for courses taken through correspondence.

### **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 immigrant students who are in the United States on student visas.

Foreign students should begin making application for admission to college early in their last year of high school. To prevent loss of time they should proceed as follows:

1. Write to the Director of Admissions of Calvin College, declaring their intention of seeking admission, and requesting the necessary application blanks.

## Suggested High School Programs

STUDENTS who expect to pursue in Calvin College any one of the courses listed below are advised to submit for admission the following subjects, if possible:

**1—For General A.B., A.B. in Education, Pre-Law, Pre-Nursing, and Pre-Medical Technology courses:**

English	3 units
Math.	2 units (Algebra and Geometry)
Foreign Language	2 units
Science	2 units (Biology and Chemistry or Physics)
History	2 units

Plus one additional unit in any of the last four subject areas to make a second major sequence of 3 units. To the total of the 12 units suggested above, four additional elective units may be added of any subjects ordinarily accepted for graduation from high school. (This total assumes that the student is required to complete 16 units for graduation.)

**2—For Pre-Seminary course:**

English	3 units
German	2 units
Latin	2 units
Math.	2 units (Algebra and Geometry)
Science	2 units (Biology and Chemistry)
History	2 units

Total suggested above: 13 units; additional elective units: 3 units = 16 units.

**3—For Pre-Medical and Pre-Engineering courses:**

English	3 units
Foreign Languages	2 units
History	2 units
Science	3 units (Biology, Chemistry, Physics)
Math.	3½ units (Algebra 2 units, Geometry 1 unit; Trig. ½ unit)

Total suggested above: 13½ units; additional elective units: 2½ units = 16 units.

**4—For Pre-Business Administration course:**

English	3 units
History	2 units
Foreign Language	2 units
Math.	3 units (Algebra 1½ units, Geometry 1 unit, Trig. ½ unit)
Science	2 units (Biology, Chemistry)

Total suggested: 12 units; additional elective units: 4 units = 16 units.

Also recommended in each of the above courses: Typing.

2. Immediately make arrangements to take the Scholastic Aptitude Test of the College Entrance Examination Board. All freshmen must submit their scores on the Scholastic Aptitude Test. However, students who qualify for Senior Matriculation or who transfer from another college or university, having earned at least one semester of credit, are not required to take the Scholastic Aptitude Test.

3. Return all blanks, properly filled in, to the College as soon as possible. This includes official transcripts of all high school or college preparatory records and such credits as were earned on the college or university level.

4. Upon receipt of acceptance for admission from the Director of Admissions of the College, they should immediately make application with the American Consul in the area of their residence, for passport and visa. As soon as the applicant is accepted for admission, the College will send him an I-20 Form.

### Advanced Standing

*Transfer credit* is granted in the following cases:

1. When the applicant submits from an accredited college, junior college, or college of education, a transcript of the courses completed, provided that these courses were of an academic nature, the grades received were "C" or better, and that the student is entitled to honorable dismissal. However, no applicant is allowed more than 16 hours of credit for each semester of work taken at another recognized institution. No more than 70 semester hours of advanced credit will be allowed for work taken at an accredited junior college.

2. When the applicant submits evidence of having satisfactorily completed college credit in courses taken by correspondence at accredited colleges and universities. A maximum of nine semester hours will be allowed for courses taken by correspondence.

3. When a Calvin College student takes courses at another accredited institution which have been approved by the Calvin College Registrar. No credits earned at a junior college, however, will be accepted for transfer after the student has accumulated a total of 70 hours of college credit.

*Advanced credit* is granted in the following cases:

1. When the applicant, at the time of entrance, satisfactorily passes departmental examinations in the subjects in which he desires advanced standing.

2. When the applicant submits from an accredited high school, in excess of 16 units for admission, credits in academic subjects which are also taught in college; provided that for at least one semester he has successfully continued work in these subjects at Calvin College. The limit of such college credit allowance is six hours.

3. 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.

4. When the applicant submits evidence of having passed an Advanced Placement Examination of the College Entrance Examination Board with a grade of "3" or better.

Admission to advanced standing does not excuse the student from meeting the specified requirements for graduation from Calvin College.

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 must have their official transcripts submitted to the Office of Admissions.

### **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 Registrar of the Seminary permits them to take and as the Registrar 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 Registrar of the College, and the professor whose course is involved.

### **Special Students**

Applicants who meet all of the requirements for admission but who do not desire to become candidates for an academic degree, may be enrolled for such studies as their preparation qualifies them to pursue with profit.

## STUDENT EXPENSES

### Tuition Rates

The semester tuition rate, which includes an \$8 organization fee, a \$5 student center fee, a \$2.50 health service fee, and laboratory fees, is \$465.

For students who are members of a Christian Reformed Church at the time of registration, and who thus contribute indirectly to the support of Calvin College, the tuition rate is determined on the basis of the postal zone (as calculated from Grand Rapids) or the Canadian province in which the student resides. An unmarried student's residence will generally be determined to be that of his parents. The rate for the various categories:

<i>Local Zone</i> (within 10 miles of Calvin College Campus) .....	\$380
<i>Zones 1, 2, and 3</i> (extending up to 300 miles from Grand Rapids) ..	330
<i>Zones 4 and 5</i> (from 300 to 1,000 miles from Grand Rapids) .....	295
<i>Zones 6, 7, and 8</i> (more than 1,000 miles from Grand Rapids) .....	255
<i>Manitoba, Ontario, and Quebec Provinces of Canada</i> .....	295
<i>Alberta, British Columbia, and Saskatchewan Provinces</i> .....	255

(The College reserves the right to interpret these rates and categories and to determine the rate in cases about which there is question.)

### SPECIAL PROVISIONS FOR STUDENTS WHO ARE MEMBERS OF A CHRISTIAN REFORMED CHURCH

1. If there are two or more students from a single family attending Calvin College, a reduction of \$25 from the regular tuition rate shall be allowed for each such student.
2. If the student's parents are not members of the Christian Reformed Church, the tuition is based on the zone in which the Christian Reformed Church of which the student is a member is located.
3. The residence of a married student is considered that of his former established home.

### SPECIAL PROVISIONS FOR ALL STUDENTS

1. Students taking in excess of 18 semester hours will be charged \$15 for each such excess semester hour.
2. Students taking less than a normal load can elect to pay on the basis of a part-time rate. This rate is \$35 for each semester hour, except that in the case of those who are members of the Christian Reformed Church it is \$29 per semester hour. For those taking less than 12 semester hours of credit this charge does not cover the organization, student center, health service, or laboratory fees.
3. If a student discontinues before the end of the twelfth week of a semester, he shall be charged a pro-rata share for the portion of the

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. Additional information is available from the Dean of Women.

### **Apartments**

A number of apartments are available for seniors who desire to do their own cooking. Permission to stay in an apartment must be obtained from the Dean of Students, for men; and from the Dean of Women, for women students. All apartments must be supervised and on the approved list. Freshmen, sophomores, and juniors under 21 years of age are not permitted to stay in apartments.

### **Payments of Room and Board**

*Freshmen and Sophomores* — All payments for rooms, both College-owned and private, and for meals in the Dining Halls are to be made in advance, and each advance payment must cover at least one quarter of the semester charge. A schedule will be published for each semester listing the due dates of the quarterly payments. It is important that this schedule of payments be followed closely. Accounts not paid on time are subject to a \$2 Deferred Payment Fee.

*Juniors and Seniors* — Payment for room and board in private homes or apartments, supervised by the landlord living on the premises, is an arrangement between landlord and student. Students are expected to meet these obligations promptly. Payments for room and utilities in apartments with a college-appointed supervisor are made through the college.

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

## SCHOLARSHIPS AND AWARDS

Calvin College awards approximately 100 scholarships to entering freshmen and a smaller number to upperclassmen. Scholarships are awarded as recognition for academic excellence and are renewable on a competitive basis. Cash stipends given to scholarship winners will vary in amount, depending on the student's need, and such stipends can be supplemented by loans and work opportunities provided by the College. All students holding scholarships awarded by the College are expected to meet part of their expenses through work or loans.

Calvin College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Scholarship winners—both freshmen and upperclassmen—who apply for scholarship amounts beyond the minimum stipend must submit a Parents' Confidential Statement for processing by the College Scholarship Service.

### Freshman Scholarships and Awards

**Freshman Scholarships — Calvin College Honor Scholarships.** Each year the College awards up to five Honor Scholarships to students of superior academic achievement. The minimum stipend is \$100 and can be supplemented by an additional stipend up to 80% of the student's need and by work opportunities and loans.

**Freshman Scholarships — Calvin College Scholarships.** These are awarded to entering freshmen who have done excellent work in high school. The minimum stipend is \$50, but this can be supplemented by an additional stipend up to 25% of a student's need and by work opportunities and loans. These scholarships are allocated as follows:

*Christian High School Graduates:* At least one scholarship will be awarded to a graduate of each of the accredited Christian High Schools in the United States and Canada. Each candidate for the scholarship will be nominated by the faculty of his Christian High School. Calvin College will select the winners. If the nominee of a particular high school does not meet college scholarship standards, he will not be awarded a scholarship but may be eligible to receive a Grant-in-Aid.

*Public High School Graduates:* A number of scholarships are reserved for graduates of accredited public high schools in the United States and Canada who are members of the Christian Reformed Church.

*Undesignated:* A limited number of scholarships can be awarded to applicants who do not fall into either of the above categories but who have a special reason for wanting to attend Calvin and who meet all other conditions for an award.

*All awards listed above are made in accordance with the following conditions:*

1. Applicants should expect to complete a three- or four-year course at Calvin College.
2. Recipient must have fulfilled regular College admission requirements. An Application for Admission, Pastor's Recommendation,

Health Record, Applicant's Personal Record, an official high school transcript, and the scores on the Scholastic Aptitude Test must be submitted before a student is considered for admission.

3. All applicants are required to take the College Entrance Examination Board Scholastic Aptitude Test. The test should be taken early enough to permit the scores to reach Calvin College by January 1. This means that the test should be taken in December.
4. An applicant must be recommended by the faculty of his high school. This recommendation should attest to the student's scholastic ability, Christian character, personality, and promise of growth.
5. Public High School graduates should give evidence that they were unable to attend a Christian High School because of lack of opportunity. The reasons for not attending a Christian High School should be explained.

*Applications will be available after November 1. All applications and recommendations must be received by the Chairman of the Scholarship Committee not later than January 1.*

**Freshman Pre-Nursing Scholarships.** Each year Calvin College offers two scholarships to students who plan to enter the one-year Pre-Nursing Course. One award is made to a graduate of a Christian High School, and one to a graduate of a Public High School, who is a member of the Christian Reformed Church. The stipends and the other conditions are like those for the Calvin College Scholarship described above, except that applicants are not expected to complete a three- or four-year program.

**Freshman Scholarship — Certificate of Merit Award Winners.** Calvin College offers one of the Calvin College Scholarships described above to each high school graduate who has received a National Merit Scholarship Corporation Certificate of Merit, provided he or she has satisfied the other conditions for receiving a College Scholarship described above. The winner of such a certificate who seeks to qualify for the scholarship must notify the Chairman of the Scholarship Committee not later than April 1 of the year in which he is applying for admission and must present a copy of the certificate to the Scholarship Committee. Winners of Letters of Commendation are not eligible.

**Julius Bergsma Memorial Awards —** The Bergsma Brothers Foundation gives three duplicate awards to young men and young women finalists in the Annual Young Calvinist Federation Speech Contest: Two first-place winners - \$350 tuition and/or college-related expenses, two second-place winners - \$100 cash award, two third-place winners - \$50 cash award.

Contestants must be members of a Young Calvinist Federation youth group. Schooling of contestants must not exceed the twelfth grade. The first-place award will be held in trust for three years to permit the contestant to meet college entrance requirements. If a first-place winner does not plan to enter college or is prevented from doing so, the next

ranking contestant becomes eligible for the award. Complete details on rules and awards may be obtained from The Young Calvinist Federation, 2365 Nelson Avenue, S.E., Grand Rapids, Michigan 49507.

**The Alvin M. Bentley Foundation Scholarship** — Calvin College has been allocated one tuition scholarship, to be awarded each year under the Alvin M. Bentley Foundation Scholarship Plan. The maximum award for a commuting student is \$500, and for a resident student \$750. The award is intended for an outstanding high school senior, who is a resident of the state of Michigan, and who is seeking admission to Calvin College. The same general criteria used in the selection of candidates for other scholarships will be used in the selection of a candidate for the Bentley Scholarship. The student is expected to have outstanding talents. Consideration will be given to scholarship, character, personality, promise of growth, and financial need. Applications and recommendations must be in the hands of the Chairman of the Scholarship Committee by January 1.

**Consumers Power Company Scholarship** — The Consumers Power Company offers a scholarship of \$300 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 Consumers Power Company. The winner is to be selected by officials of Calvin College, and applications must be in the hands of the Chairman of the Scholarship Committee by January 1.

**Detroit Edison Company Scholarship** — The Detroit Edison Company offers a scholarship of \$400 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. The scholarship is renewable if the student maintains at least a B average.

Applications must be in the hands of the Chairman of the Scholarship Committee by January 1.

**General Motors Scholarship** — Calvin College has been allocated one scholarship to be awarded each year under the General Motors College Scholarship Plan. This four-year award is intended for a high school graduate who is seeking admission to Calvin College. The applicant must be a citizen of the United States, and is expected to have outstanding talents. Primary consideration in making the award will be given to scholarship, Christian character, personality, and promise of growth. The amount of the award will be based upon the applicant's financial need. In selecting a candidate for this award the College will apply such standards relating to scholarship and all-around 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 must be in the hands of the Chairman of the Scholarship Committee on or before January 1.

**Classis Muskegon Young Calvinist Alliance Scholarship** — The Young Calvinist Alliance of Classis Muskegon of the Christian Reformed Church offers a scholarship or grant-in-aid of \$300, to a Christian or public high school graduate who is or was a member of the Alliance, for study at Calvin College. The award is given to a prospective Freshman or to a current undergraduate student. It is renewable for one year. Applications are received by the Executive Committee of the Young Calvinist Alliance and a nomination of two or three is presented to the Delegate Board, which in turn selects one for the award.

**Regulations:**

1. The recipient must be a member of the Christian Reformed Church and a member or former member of the Muskegon Young Calvinist Alliance.
2. If in the opinion of the Executive Committee of the Alliance no suitable candidate is available, no award will be made that year.
3. Selection is made on the basis of Christian character and life, loyalty to the church and societies, financial need, intellectual ability, and leadership.
4. A Freshman receiving this scholarship or grant-in-aid must have fulfilled regular college admission requirements.
5. Application for this scholarship must be made by March 1. The applicant should inform the pastor of his church of his interest. Application forms will be forwarded to the applicant.
6. This scholarship or grant-in-aid may be for either Freshmen or upperclassmen.
7. The recipient of this scholarship should expect to complete his course at Calvin College.

**Steelcase Foundation Scholarship** — The Steelcase Foundation of Grand Rapids, Michigan, offers two scholarships annually, of \$250 each, to applicants for admission to Calvin College who are the children of employees of Steelcase, Incorporated. The scholarships are renewable for three years. Continuation of the scholarship shall require maintenance of at least a C+ average. The winners are to be selected by the Scholarship Committee of the College, and the applicants are to be judged on the basis of scholastic ability, character, and need. If scholarships are not filled by the children of Steelcase, Incorporated, employees, for whatever reasons, the scholarships shall be open to other Michigan residents. Applications must be in the hands of the Chairman of the Scholarship Committee no later than January 1.

**George M. Pullman Educational Foundation Scholarships** — The George M. Pullman Educational Foundation awards each year a number of scholarships to college students with financial need. Applicants should be residents of Cook County, Illinois. Non-residents of Cook County,

Illinois, are eligible for consideration only if they are sons or daughters of employees of the Pullman-Standard Car Manufacturing Company or of the Pullman Company.

Applications are accepted from entering Freshmen and from current undergraduate students. The application deadline for entering Freshmen is January 15, and for current undergraduate students April 15. High school seniors should obtain information about application procedures from high school placement officials. Other candidates should address their inquiries to the Educational Director, George M. Pullman Educational Foundation, 1451 East 55th Street, Chicago 15, Illinois. The National Merit Scholarship Qualifying Test or the College Board Scholastic Aptitude Test is required of prospective freshman candidates. Arrangements to take either of these tests must normally be made before December of the senior year of high school.

**State of Michigan Competitive Scholarships** — Each year the Michigan Higher Education Assistance Authority awards a number of state scholarships to beginning freshmen. These scholarships are to be used for tuition and fees and are not to exceed \$800. Scholarship winners must demonstrate college potential and financial need. To be eligible for consideration for a state scholarship, each applicant must: (1) be a continuous resident of Michigan for three years, (2) have successfully completed the program of instruction at a Michigan high school or be currently enrolled as a student at such a school and engaged in a program which will be completed by the end of August, (3) be a person of good moral character, and (4) qualify as a result of his performance on the State Competitive Examination. Additional information and application forms can be secured from the principal's office of any Michigan high school.

**Friends of Calvin Tuition Scholarship** — Each year, two renewable, full-cost tuition scholarships are made available by the *Friends of Calvin* for worthy, needy, Christian Negro students who reside in Grand Rapids and environs. The scholarships are provided for the twofold purpose of giving such students a Christian collegiate education and giving the community competent Christian leadership. Renewal of the scholarships is dependent upon satisfactory performance. The winners are to be selected by the Scholarship Committee of the College, the applicants being judged on the basis of scholastic ability, character, and need. All applications and recommendations must be in the hands of the Chairman of the Scholarship Committee by May 1.

**Kent Medical Foundation Tuition Grants** — To qualify for a grant, a student must matriculate in a health career recognized as scientific in nature. Applications must be in the hands of the Chairman of the Scholarship Committee by April 1.

## Sophomore, Junior, and Senior Scholarships and Awards

**Calvin College Scholarships - Upperclassmen** — Each year Calvin College offers a number of scholarships to members of the freshman, sophomore and junior classes who have achieved superior records in their previous college work. Awards can consist of cash stipends up to 25% of a student's need and of work opportunities and loans. Holders of Freshman Honor Scholarships and Calvin College Scholarships, as well as other qualified students, are encouraged to apply for Upperclassman Scholarships.

Awards are made subject to the following conditions:

1. Applicants must plan to enroll in a full-time program at Calvin College, with a view to eventually meeting the requirements for graduation.
2. An applicant should have the recommendation of two members of his College Faculty. Recommendations shall be on the basis of scholarship, Christian character, personality and promise of growth. Only students of high academic rank who may be expected to do superior work in their remaining college years should be recommended.
3. Winners will be selected by the Faculty from among the applicants. The Faculty reserves the right to reject any candidate who may have made application and may have been recommended for a scholarship.
4. Preference will be given to applicants who have been in residence at Calvin College for all their previous college work.
5. Applicants must have their applications and recommendations in the hands of the Scholarship Committee not later than April 15.

**Calvin College Scholarship - Trinity Christian College Graduate.** — Each year Calvin College offers a scholarship similar to the Upperclassman Scholarships to a member of the sophomore class of Trinity Christian College, Palos Heights, Illinois, who has been recommended by the Trinity Faculty. The scholarship can consist of a cash stipend up to 25% of the recipient's need and of work opportunities and loans. The award is made in accordance with the following conditions:

1. The Faculty of Calvin College will select and appoint the winner. If, in the opinion of the Faculty, no suitable candidate is available, no award will be made. The Faculty of Calvin College reserves the right to reject any candidate who may be recommended.
2. The recommendation of the Trinity Faculty shall be on the basis of scholarship, Christian character, personality and promise of growth. Only students of high academic rank who may be expected to maintain a good record at Calvin should be nominated.
3. The recipient should expect to complete a four-year course at Calvin College. He should have been in residence at Trinity College during both his freshman and sophomore years.

4. Recommendations must be in the hands of the Chairman of the Scholarship Committee not later than March 15.

**Alumni College - Faculty Memorial Scholarships** — The Calvin College Alumni Association each year provides the College, in memory of deceased college faculty members, with three annual scholarship grants of \$300 each, one to be given to a freshman for use in the sophomore year, one to a sophomore for use in the junior year, and one to a junior for use in the senior year.

The rules are as follows:

1. The Faculty of Calvin College, through its Scholarship Committee, will select candidates for the awards; these names will be submitted to the Alumni Association for final selection.
2. If, in the opinion of the Faculty, no suitable candidate is available in a given year, the funds for that year will be added to the Alumni scholarship fund.
3. Application must be made for the award, and recommendation secured from two members of the Faculty. Applications and recommendations must be in the hands of the Chairman of the Scholarship Committee no later than March 15.
4. The recommendation must be on the basis of scholarship, Christian character, promise of growth, and personality.
5. The applicant should have been in residence at Calvin College for at least the preceding year and should expect to complete his college work at Calvin College.

**Associated Women Students Scholarship** — Each year the Associated Women Students of Calvin College, of which every woman student is a member, offers a scholarship consisting of \$100 per semester for two semesters, to a sophomore woman student for her junior year. The selection of a candidate or candidates for the scholarship is made by the Executive Board of the Associated Women Students, subject to the approval of the Faculty Scholarship Committee. Recommendations shall be on the basis of scholarship, Christian character, personality, promise of growth, and need.

Application blanks may be obtained from the Office of the Dean of Women of Calvin College. Application must be made by March 1.

**Dow-Employees Scholarship Fund** — The Dow-Employees Scholarship Fund provides Calvin College with an annual scholarship grant to cover an amount approximately equal to the institution's cost of educating a student during the year immediately preceding the year in which the grant is given. The grant will cover the student's tuition as well as the additional cost to the school.

The stipend is to be given preferably to an outstanding science or engineering major in his junior year, or to a major in another department, if the College so elects, for use in his senior year. The recipient must have the ability, initiative, and personality to contribute to his field in coming years. The recipient is to be selected by the Scholarship Committee of the College, on the recommendation of the department

concerned. Departments should submit names and recommendations to the Chairman of the Scholarship Committee by March 15.

**Spalink Memorial Missions Scholarship** — An annual senior scholarship award of \$500 is presented by Mr. and Mrs. John Spalink, in memory of their son, John Spalink, Jr. Its purpose is to encourage superior students to enter missions. The scholarship is awarded to a junior student of either sex who shows a definite interest in a missionary vocation. The award is given primarily for achievement in scholarship, although other factors, such as financial need, will be taken into account. Generally, members of the Christian Reformed Church who aspire to a career with that church's missions will be shown a certain preference. The Scholarship Committee makes final determination of the award. The rules are as follows:

1. Application must be made no later than March 1.
2. Applications must include the following:
  - a. a statement of mission vocational aims;
  - b. a plan of study.
3. Recommendations from two members of the Faculty must accompany the application.
4. Applicant must be prepared to give evidence of confirmed interest in missions, and the intention to work in missions after training.

**Summer School Scholarship** — Twelve scholarships in the amount of \$200 each, one for each National Union of Christian Schools district, will be available to Christian school teachers for undergraduate study at Calvin College during the summer of 1967. The National Union and Calvin College each contributes \$1,200 for this undergraduate program. The cash awards must be used for payment of tuition and other expenses involved in work for personal and professional enrichment, work toward the validation of a teaching certificate, or toward a degree at Calvin College.

To be eligible for a scholarship the teacher:

1. Must have completed three years of successful teaching in the Christian schools.
2. Must be able to produce satisfactory evidence of possessing:
  - a. Ability to pursue academic work successfully.
  - b. Qualities of personality, character, and conviction that are assets to a Christian teacher.
  - c. Loyalty to the Reformed faith.
  - d. Superior teaching ability.
3. Must agree to serve a National Union member school at least one year after using a scholarship.
4. Must submit a statement of 250 words or less on the reason(s) for applying for a scholarship.

For details and applications for these scholarships and for grants-in-aid write directly to the Director of Scholarships, National Union of Christian Schools, 865-28th Street, S.E., Grand Rapids, Michigan 49508.

Application must be made by February 1.

**Michigan Education Association Scholarship** — The Michigan Education Association Scholarship Program provides one \$500 scholarship annually to a worthy and outstanding teacher candidate in each of the institutions of higher education in Michigan whose program of teacher preparation meets the standards of and is approved by the National Council for the Accreditation of Teacher Education. The award recipient must be a full-time student who has completed his basic requirements and has been accepted in the teacher education program. Students interested in this scholarship should contact the Chairman of the Department of Education for further information.

**Kent Medical Foundation Grants** — Each year the Kent Medical Foundation makes available two tuition grants to qualified students at Calvin College. These grants are designated for students who are residents of Kent County or vicinities bordering thereon and who have not received a professional degree. To qualify for a grant, a student must be matriculated in a health career recognized as scientific in nature. Applications must be in the hands of the Chairman of the Scholarship Committee by April 1.

### Music Awards

**Anna Bruinsma Award in Music** — The interest on \$750, given by the late 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. This award is open only to seniors.

**Oratorio Society Tuition Scholarships in Music** — Five college tuition awards of \$200 each are presented by the Calvin College Oratorio Society to prospective freshmen. These scholarships are awarded to four instrumentalists and one vocalist who can meet college admission requirements and have records of superior achievement in high school music activities. Recipients must maintain a C average for four semesters and will be expected to participate in the scheduled rehearsals and performances of at least one of the following: Calvin College Band, Orchestra, or Choir.

**Oratorio Society Tuition Grants in Music** — A number of college tuition grants are presented by the Calvin College Oratorio Society to prospective freshmen. These grants are awarded to instrumentalists and vocalists who can meet college admission requirements and who have records of superior achievement in high school music activities. Recipients must maintain a C average for the duration of the grant and are expected to participate in the scheduled rehearsals and performances of at least one of the following: Concert Band, Orchestra, Radio Choir, A Cappella Choir.

**Vander Heide Voice Award** — One tuition award of \$200 is offered annually by Mr. and Mrs. Jan Vander Heide to a vocalist who can meet College admission requirements, and who has a record of superior achievement in high school music activities. The recipient will be expected to participate in the scheduled rehearsals and performances of

at least one choral ensemble, and to maintain at least a C average for four semesters. Only freshmen are eligible. Applicants will be judged on the basis of evidence of talent and financial need.

Application blanks for the Oratorio Society and Vanderheide awards may be secured from the Music Department after April 1, and must be returned on or before April 21, 1967. Auditions in person or by tape recording will be held May 6, 1967.

### Miscellaneous Awards

**The Beets Calvinism Award** — The late Dr. and Mrs. Henry Beets established a fund which now amounts to \$1,500, 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 a Calvin College student. The prize will be awarded at the discretion of the Bible Department, in consultation with the President of Calvin College. If, during any given year, the Bible Department considers the essays or papers submitted of insufficient merit to deserve the prize, the interest of such a year, or years, will be added to the principal.

**The William B. Eerdmans Literary Awards** — The late Mr. William B. Eerdmans, Sr., established the William B. Eerdmans Literary Awards in the interest of encouraging originally expressive writing among Calvin students.

Under the terms of the foundation three awards—1st, \$35; 2nd, \$25; 3rd, \$15—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.

**The Rinck Memorial Award** — A fund of \$1,500 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 this fund is devoted to an award for outstanding work in mathematics. The prize is awarded annually to the senior student majoring in the Mathematics Department who has, in the opinion of the members of the Department, done superior work in undergraduate mathematics.

**Jewish Evangelization Award** — Dr. and Mrs. William J. Yonker, for the year 1966-'67, offer a prize of \$75 for the best essay and a prize of \$25 for the second-best essay on a subject bearing on the Evangelization of the Jews. The contest is open to all college students.

**The Edward D. VanderBrug Memorial Award** — In memory of Mr. Edward D. VanderBrug, the VanderBrug family has provided two awards to be made annually to students who have done excellent work in the department of education. The awards, consisting of fifty dollars' worth of books, are given, without application, to those two students who, in the judgment of the Department of Education, have shown particular application to their training as teachers and who show strong intention to teach in the Christian schools.

## Speech Awards

**Baker Extemporaneous Speaking Awards** — Through the generosity of the Baker Book House 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 women's divisions of the Extemporaneous Speaking Contest. In each division the winners of first, second, and third places are awarded credit vouchers of \$25, \$10, and \$5 respectively. The first place winners of each division represent Calvin at the annual State Extemporaneous Speaking Contest.

**Berghuis Forensic Awards** — Students who represent the College in State Oratory, Extemporaneous Speaking, and Interpretative Reading Contests, and students who represent the College in the State Debate Tournament are eligible for the Berghuis 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 are made possible through the generosity of Mr. and Mrs. J. P. Berghuis of Prinsburg, Minnesota.

**Broodman Oratorical Awards** — Through the generosity of the Dr. G. J. Broodman family of Grand Rapids, Michigan, a gold medal and a \$25 Savings Bond are awarded to the first place winner in a men's oratorical contest. Silver and bronze medals are given annually to the winners of the second and third places, respectively, in a men's oratorical contest. These awards are presented in memory of the late Dr. G. J. Broodman. The first-place winner represents Calvin in the State Oratorical Contest of the Michigan Intercollegiate Speech League.

**Drama-Interpretative Reading Awards** — An anonymous donor annually presents the Speech Department with \$100 to be used as awards in the areas of drama and interpretative reading. This enables the Speech Department each year to make the following awards:

1. A \$25 award to a Senior student who has done outstanding work in acting in Thespian productions.
2. A \$25 award to a Senior student who has made valuable contributions in the areas of the technical aspects of Thespian productions.
3. \$15 awards to each of the two students selected to represent Calvin College at the League Division of the Annual Interpretative Reading Festival of the Michigan Intercollegiate Speech League.
4. \$10 awards to each of the two students selected to represent our College at the Junior Division of the Annual Interpretative Reading Festival.

**Monsma Debate Award** — Each year Mr. and Mrs. John W. Monsma, Jr., offer an award of \$100 to an outstanding Calvin College debater. The award is given on the basis of the student's ability as a debater, his academic record, his character and personality, and his financial need. The Speech Department will select the nominee to receive the annual award.

**Thespian Oratorical Awards** — The Thespians, dramatics club of Calvin College, offers three awards in oratory for women, of \$15, \$10 and \$5.

The first award winner represents Calvin in the state oratorical contest of the Michigan Intercollegiate Speech League.

### **Scholarships for Continuing Graduate and Seminary Study** (Available through and at Calvin College)

**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 awarded annually to a pre-medical student. The scholarship shall normally be awarded 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 scholarship is granted. The scholarship, consisting of \$400, will be awarded to a student who has taken his pre-medical work at Calvin College. Payment will be made to the student upon his matriculation at an accredited medical college which awards the degree of Doctor of Medicine.

Students who are interested must apply to the Chairman of the Scholarship Committee before March 1. Final award need not necessarily be limited to the student who has made formal application.

**Board of Trustees Scholarship** — Calvin Seminary, under the authority of the Board of Trustees of Calvin College and Seminary, offers a scholarship consisting of \$500 to a member of the graduating class of Calvin College. The award will be made to a student who plans to enter Calvin Seminary and, eventually, the ministry in the Christian Reformed Church.

Applications should be in the hands of the Chairman of the Scholarship Committee by March 1.

**University of Michigan State College Fellowship** — This is a prestige fellowship to the Graduate School of the University of Michigan totalling \$2,250 plus tuition for a year's academic work. The Faculty of each accredited college in the state of Michigan is authorized by the Board of Regents of the University of Michigan to nominate an outstanding senior for this fellowship. Alternative nominations are also made. Completed applications must be in the office of the Graduate Dean not later than the February 15 preceding the academic year for which application is made.

Because the nominations are made by the Faculty upon recommendation of the Scholarship Committee, students do not apply for this fellowship. Students interested in information concerning it, however, may consult the Coordinator of Graduate Fellowships, Dr. Charles J. Miller.

**Michigan Scholars in College Teaching Fellowship** — One or more fellowships of \$2,250 plus tuition are granted each year by the Michigan Scholars in College Teaching Program, a Ford Foundation sponsored cooperative program of five Michigan Liberal Arts Colleges and the University of Michigan, for students enrolled in the program at Calvin to assist in their first year's graduate study at the University of Michi-

gan. This program identifies potential college teachers during their junior year and, through curricular coordination, makes possible the completion of a master's program three years later after one year in graduate school. Although nominations for these fellowships are made by the Scholarship Committee, students interested in the program or the fellowships may consult the Coordinator of Graduate Fellowships, Dr. Charles J. Miller.

**University of Chicago Cooperative Three-Year Master of Arts Fellowships in the Humanities** — An undesignated number of fellowships, carrying a stipend of \$2,000 plus tuition, are available for students in the University of Chicago Cooperative Three-Year Master's program who wish to enter graduate study at the University of Chicago in one of the Humanities. This program, conducted with the collaboration of thirty-six midwestern Liberal Arts colleges and financed by the Ford Foundation, has as its purpose the training of college and university professors. In most fields a master's degree can be completed in eleven months of graduate study.

All seniors enrolled in this program will receive fellowship application forms from the University of Chicago. Questions concerning this program and the fellowships should be directed to the Coordinator of Graduate Fellowships, Dr. Charles J. Miller.

**Competitive National Graduate Fellowships** — Many competitive national fellowships are available to Calvin seniors with outstanding records. These include the Woodrow Wilson fellowships, the Danforth Foundation fellowships, the Rhodes fellowships, the Marshall fellowships, the National Science Foundation fellowships, the various Fulbright grants, and many others. The conditions for these grants vary from year to year as do the deadlines. For most of them, however, application must be made early in the fall and students are advised to take the Graduate Record Examinations at the earliest possible date. Students interested in any of these grants are advised to consult their departmental chairmen and the Coordinator of Graduate Fellowships, Dr. Charles J. Miller.

**University of Michigan Scholarships for Graduates of the Pre-Engineering Course** — The University of Michigan offers a limited number of scholarships to worthy and needy students who have completed their pre-engineering course and who transfer to the University of Michigan to complete their work for an engineering degree. The amount of the scholarship is \$500, or more, a year. These scholarships are offered only to residents of Michigan. Pre-engineering students who are interested should see the Chairman of the Engineering Department or the Chairman of the Scholarship Committee before March 1.

**University of Michigan School of Business Administration Tuition Scholarship** — This scholarship is awarded annually to a graduate of Calvin College who has majored in Business Administration and who is recommended for the scholarship by the members of the Economics Department. Seniors who are interested should see the Chairman of the Economics Department before February 15.

## STUDENT SERVICES

### Financial Aids

Financial Aid at Calvin College is available through scholarships, grants, loans, and employment. The use of several of these possibilities should assist in covering the financial costs of attending Calvin College. Students with extreme financial need are invited to discuss their need with the Coordinator of Student Financial Aid. With the many avenues of assistance available, a prospective student should not deny himself a Calvin College education because of costs. Students who plan to request Financial Aid should have their parents complete a Parents' Confidential Statement.

#### I. Policies

- A. Financial Aid is awarded only by the action of the Financial Aid Committee.
- B. Any full-time student in good standing (including Freshmen with regular or provisional admission) may apply for Financial Aid.
- C. National Defense Loans are granted only in cases of proven financial need.
- D. Campus Employment applicants are given priority on the basis of financial need.
- E. A student's financial needs over the entire academic year are used as the basis for awarding Financial Aid.
- F. The parents' ability to contribute is considered an important factor in all Financial Aid considerations.
- G. Financial Aid awards are given for one year only, except for the Educational Opportunity Grants and College Work Study Programs.
- H. The Financial Aid Committee reserves the right to suspend any or all aid commitments at any time for reasons which they deem sufficient.
- I. Students who receive aid are expected to live economically, and to establish an acceptable record in all phases of college life.

#### II. Types of Aid

- A. Scholarships (see pages 35-47)
- B. Grants

##### 1. Grants-in-Aid

If there are funds available after all scholarships have been awarded, Calvin College will award Grants-in-Aid to eligible applicants.

##### 2. Educational Opportunity Grants

The Federal Government is sponsoring this program to make possible a college education for exceptionally needy students. It is intended as an encouragement for students of average or

better-than-average ability to go to college. Up to one-half of the student's financial need may be supplied. The other half must come from loans or employment. Grants range from \$200 to \$800. The student must be able to prove extreme financial need.

### C. Loans

Loans are available to students through many sources today. Most of the loans have no interest charge while the student is in school and a reduced interest charge after graduation. Repayment is also deferred until after graduation.

The following types of loans are available at Calvin College:

1. National Defense Student Loan Program exists for U.S. citizens. The maximum loan is \$1,000. Preference will be given to needy students and those students entering the teaching profession.
2. Federal Guaranteed Loan Program provides loans through local banks. The interest subsidy is paid by the U.S. Government for U.S. citizens.  
The loans are available for students at any class level. The maximum loan is \$1,000. Financial need is not stressed in this program. The agencies that are used for the guaranteeing of these loans are:
  - a. Various State Higher Education Assistance Authorities.
  - b. United Student Aid Fund, Inc.
3. Canada Student Loan Plan — Many Canadian students receive this loan. Application is made through the Provincial Financial Aid Office.
4. Calvin Loan Funds are available for students. This loan is to be repaid at the end of the summer. Primary consideration is given to non-citizens.
5. Emergency Loans for amounts up to \$50 are available from the Kiwanis Club through the office of the Dean of Women or the Dean of Students.
  1. College Employment includes a variety of opportunities, such as jobs in the dining halls, residence halls, offices, maintenance department, and many other possibilities.
  2. College Work Study Program — Students with definite financial need may apply for this program. Work may be for off-campus agencies as well as for the College. The College works with the Federal Government in providing employment to help defray educational costs. Where it is possible, the work will be assigned in areas related to the student's curricular interest.

#### D. Campus Employment

1. College Employment includes a variety of opportunities, such as jobs in the dining halls, residence halls, offices, maintenance department, and many other possibilities.
2. College Work Study Program — Students with definite financial need may apply for this program. Work may be for off-campus agencies as well as for the College. The College works with the Federal Government in providing employment to help defray educational costs. Where it is possible, the work will be assigned in areas related to the student's curricular interest.

### III. Procedures

- A. An application for Financial Aid will not be processed until after the student has been accepted by the Admissions Office.
- B. For information and application forms correspond with the following:
  - Scholarships—Dr. Melvin E. Berghuis, Vice-President for Student Affairs
  - Grants and Educational Opportunity Grants—Mr. Donald Lautenbach, Coordinator of Admissions and Student Financial Aid
  - Loans—Mr. Donald Lautenbach, Coordinator of Admissions and Student Financial Aid
  - Regular Campus Employment:
    - Men—Mr. Philip Lucasse, Dean of Students
    - Women—Miss Catherine W. Van Opynen, Dean of Women
  - College Work Study Program—Mr. Donald Lautenbach, Coordinator of Admissions and Student Financial Aid
- C. Applications for NDEA Loans will be reviewed and awards made beginning June 15 preceding the fall semester for which application is made. Applications received prior to that date will be held until then. Late applications will be acted upon as they are received.
- D. Commitments for Grants-in-Aid, Educational Opportunity Grants, and College Work Study Program will begin after May 15. Later applications will be acted upon as they are received.

### IV. Parents' Confidential Statements

Calvin College requests that every student who is asking for financial aid from the resources of the College submit a Parents' Confidential Statement. Forms for this purpose are available at any high school office and at Calvin College. After the form has been completed by the parents, it should be forwarded to the College Scholarship Service at the address indicated on the Confidential Statement. An

evaluation of the parents' ability to contribute to the education of his child will then be sent to the College Financial Aid Office. The College will use this evaluation in its assessment of the applicant's financial need.

### **Off-Campus Student Employment Service**

*A Student Employment Service* is operated under the supervision of the Office of the Dean of Students. Students desiring part-time employment may fill in application cards with this service at the time of registration or at the Employment Desk in the Student Personnel Office any time during the semester. This office has on file the names of business firms and individuals interested in employing students on a part-time basis.

### **Teacher Placement Bureau**

The College maintains a Teacher Placement Bureau, administered by the Director of Student Teaching, to assist graduates in securing teaching positions. Personal data, recommendations from members of the Faculty, and other information relative to the teaching ability of the candidates are made available to school boards and/or administrators throughout the United States and Canada. All seniors and graduates of the College who have completed the requirements for teachers' certificates are entitled to use this service without charge. All communications should be addressed to the Teacher Placement Bureau at Calvin College.

### **Graduate Placement Bureau**

Arrangements are made each spring semester by the Student Personnel Office for interviews with prospective employers. The schedule of these interviews is made available to all interested students through the *Inter-Campus Bulletin*.

### **Student Health Insurance**

There is available to all students a Group Accident and Sickness Expense Protection Plan. The premium cost is extremely low considering the coverage that is provided under the plan. A family plan is also available. Although participation is voluntary, the College Administration strongly urges all students not covered by a medical plan to participate (see policy re injuries, page 58). Detailed information is available at the Business Office.

### **Inter-Campus Bulletin**

The *Inter-Campus Bulletin* is published daily and posted in designated places on both campuses. Notices regarding class changes, programs, and information of general interest are included. It is each student's responsibility to read this bulletin each day.

### **Inter-Campus Transportation**

The shuttle bus service is available, free of charge, between campuses.

## ACADEMIC INFORMATION AND REGULATIONS

### Religious Instruction, Worship, and Services

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 students. Nine hours of such religious instruction must be taken during the four college years in accordance with a set program.

Chapel services are held on Monday, Wednesday, and Friday. All students are required to attend these services at times assigned to them.

It is understood that on Sunday every student attends worship services in a local church, or the extension services on the Knollcrest campus. The latter extension services, conducted under the auspices of four local consistories, are held in the auditorium of the Fine Arts Center.

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. Conferences with the college chaplain can be arranged by any student during the course of the school year.

The Christian Reformed Church, which sponsors Calvin College, is eager to have all its students live the full, Christian life—a life dedicated to the glory of God and the service of our Lord Jesus Christ—and to resist all manifestations of worldliness.

The College, therefore, expects its students to conduct themselves, both on and off campus, as responsible and committed Christians. As in its academic ideals Calvin College seeks to manifest the profession of Christ, it expects its students to do the same in their personal and social lives.

The College, if necessary, shall refuse admission to, discipline, or request withdrawal of any student who, in the judgment of those delegated to deal with such matters, is guilty of conduct unworthy of the ideals and standards of Calvin College.

### College Year

The school year of 36 weeks is divided into two semesters of 18 weeks each. Summer sessions of six and eight weeks are 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.

### **The Libraries**

The Hekman Memorial Library on the Franklin Campus, and the Knollcrest Library hold a total of more than 165,000 volumes, to which about 10,000 are added annually. Almost 1,300 periodicals are currently received. The Hekman Library houses the Cayvan Collection of some 11,000 phonograph records, and the Curriculum Center for students in education. At the Knollcrest Library are the theological collection, the Freshman library, the Colonial Origins collection of historical documents, the Calvin microfilm collection, and most of the library holdings in bibliography. Library hours during the school year are as follows: 8:00 a.m. to 12:00 p.m., Monday through Thursday (Knollcrest closes at 11:00 p.m.); 8:00 a.m. to 9:30 p.m. on Friday; 8:00 a.m. to 5:00 p.m. on Saturday. Hours during vacations are 8:00 a.m. to 5:00 p.m., Monday through Friday.

### **In-Service Institute Program**

During the 1966-'67 academic year, Calvin College will conduct an in-service institute for secondary teachers of science and mathematics, under the sponsorship of the National Science Foundation. Teachers in grades 7 through 12 in any public, private, or parochial school, who teach at least one course in science and/or mathematics, are eligible to apply for this institute. Two courses in mathematics will be offered in this institute: one in advanced analysis, intended primarily for senior high school teachers of mathematics; the other an introduction to modern mathematics, intended primarily for junior high school teachers.

Classes will meet on Saturday mornings from 9 a.m. to 12 noon throughout the academic year. Regular undergraduate credit is offered. Selection of participants for this institute is made from applications submitted by interested teachers. Each teacher selected for the program will receive free tuition and fees, a book allowance, and an allowance toward travel expenses. For additional information and application blanks, write to Director, NSF In-Service Institute Program.

### **The Psychological Institute**

The Calvin Psychological Institute was established in 1964 to provide facilities for the expansion of instructional activities, particularly for the Departments of Psychology and Education, and for research by faculty members and advanced students. The Institute will also provide psychological, educational, and occupational guidance services to the Calvin College student body, to Christian schools, and to individual clients. The Institute is housed in the Professor Johannes Broene Center, located at 752 Gidding Avenue, S.E., Grand Rapids, Michigan 49506. The telephone number is 241-2606.

The staff of the Institute is composed of members of the Psychology and Education Departments and certified educational and psychological

specialists. The services of consultants from the professions of medicine, psychology and education will also be utilized.

The Institute does not aim at long term treatment for severely emotionally disturbed or retarded individuals. Rather, the main task of the various guidance services is conceived to be guidance in milder emotional and social problems, learning problems, and vocational problems.

Requests for further information should be sent to the director of the Institute, Dr. Roelof J. Bijkerk, Psychology Department.

### **Cooperative Three-Year Master's Program**

Calvin College is participating in two cooperative programs, one with the University of Michigan and the other with the University of Chicago, leading to an enriched Master of Arts degree for students who look forward to teaching on the college level. These programs, sponsored by the Ford Foundation, are designed to integrate meaningfully the last two years of undergraduate work at our college with the first year of graduate work at the University, with a view toward facilitating the progress of capable students preparing for a career in college teaching. Some fellowships are available in both programs for first-year graduate study.

To be eligible for participation in the program, a student, by the time he is a junior, should:

1. Indicate an interest in college teaching as a goal;
2. Have, in addition to personal qualifications, an overall academic record of B average or better, and a B+ in his major field;
3. Be recommended by his major department.

For further information consult the Coordinator of Graduate Fellowships, Dr. Charles J. Miller.

### **The Summer Session Program**

The program of studies offered during the summer is planned to meet the needs of:

1. Teachers who wish to continue study toward the bachelor's degree.
2. Teachers who desire credits to meet certification requirements.
3. High school graduates who desire to begin college in the summer.
4. Discharged veterans and others who wish to speed up their program.

Credit earned during this session has the same value as credit earned during the year and is transferable to other institutions. The credits are expressed in semester hours.

### **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 on the Franklin Street campus. Its facilities consist of examination room,

dispensary, men's sick bay, and women's sick bay. The health service is staffed by a campus nurse on full-time duty and physicians with consultation hours each morning. 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.

### Grades and Honor Points

Grade reports are sent out at the end of each semester. Mid-semester grade reports are prepared for Freshmen only during their first semester of residence at Calvin College.

Each student receives one final grade in each course which he takes. This grade is a combination of the results of classwork, tests and final examination. Grades are indicated by letters. The honor point value assigned to grades is indicated in the following table:

A	Excellent	4
B	Good to very good	3
C	Graduation average	2
D	Unsatisfactory; just passable	1
F	Failure	0
X	Absent from examination	0
I	Incomplete work	0
W	Withdrawn	0
+	Add .3 honor points per registered hour (effective September, 1962)	+ .3
—	Subtract .3 honor points per registered hour (effective September, 1962)	— .3

To meet graduation requirements the student must satisfactorily complete 125 hours of credit with an average of two honor points for each registered hour. Honor points are computed on the basis of registered hours.

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

A student may also repeat a course marked D to improve his grade-point average. A student's grade-point average will not be changed by repeating a course in which a grade of C- or better has been recorded.

If a student is absent from a final examination the grade X may be given. This grade must be removed by taking the examination at the time scheduled for re-examination. If the examination is not taken within one year, the grade X automatically becomes F.

The number of honor points earned in a course is determined by multiplying the number of honor points received per registered hour by the number of registered hours in a given course. For example, a grade of B in a four-hour course gives  $3 \times 4$ , or 12 honor points. A grade of B+ in a four-hour course gives  $3.3 \times 4$ , or 13.2 honor points. A grade of B— in a four-hour course gives  $2.7 \times 4$ , or 10.8 honor points.

**"I" Incomplete**

The grade I signifies the absence of a certain amount of reading to be completed, or of papers to be handed in. This grade 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 grade of I or X 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 grade of I or X within the allotted time, *the grade automatically becomes F*.

Seniors must have all incompletes removed by May 1 of the year in which they expect to graduate.

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 Registrar of the College and the instructor concerned.

**"W" Withdrawn**

A grade of W is given in a course when a student officially withdraws from that course or from the College at a time preceding the established date for withdrawing from courses without penalty. A student may not withdraw from a course without penalty after November 1 of the first semester and after March 15 of the second semester.

WP is given to indicate that a student has officially withdrawn from a course after the penalty date and that he was doing passing work in that course when he withdrew.

WF is given to indicate that a student has officially withdrawn from a course after the penalty date and that he was doing failing work in that course when he withdrew.

**Grade-point Average**

A student's grade-point average may be obtained by dividing the total number of honor points earned by the total number of registered hours for which the student enrolled during any period. Cumulative and current semester totals and grade point averages are indicated on the grade report.

**Dean's List**

To gain a place on the Dean's List a student must:

1. Have registered for at least 12 hours of work during the semester.
2. Have a grade-point average of 3.50 or higher for the semester, based upon letter grades and pluses and minuses.

### **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.

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.

### **Latest Date of Registration**

No student will be permitted to enroll after the first week of classes.

### **Schedule Changes**

No schedule changes will be permitted after the second week in any semester.

### **Dropping of Courses**

After the second week of classes no student may drop a subject without the approval of his instructor, faculty counselor, and the Registrar. Such permission will be granted only in exceptional cases after November 1 of the first semester and after March 15 of the second semester.

### **Auditing a Course**

To audit a course a student must meet the requirements for admission to Calvin College. There is no additional charge for full-time students. The fee for students who are not enrolled full time will be one-half of the regular hourly charge. Anyone desiring to audit a class should make application for this at the time of registration. No one will be permitted to audit a class unless he has the permission of both the Registrar and the instructor of the class.

Auditors are required to attend class and conduct themselves in class just as if they were full-time students working for credit. They are not required to take tests or final examinations and do not receive credit.

### **Class Visitors**

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

### **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.

### **Withdrawal During a Semester**

Students who desire to discontinue College during a semester must present a Withdrawal Request at the Registrar's Office signed by either

the Dean of Students or the Dean of Women. The student's parents will be notified of his withdrawal.

### **Use of Automobiles**

Automobiles owned or operated by Calvin students must be properly registered with the College and carry an official college automobile permit. They may be parked only in approved parking places when in the vicinity of the campus.

All 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 \$3 per year.

Students are held responsible for full knowledge of these approved parking places as well as all other student automobile regulations. The use of an automobile 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.

### **Injuries Sustained While Attending Calvin College**

All students are reminded that ordinarily the College is not liable for injuries sustained by students in their activities as students, even though such injuries occur upon the college premises; for example, in required laboratory work or physical education classes. The College does not undertake to be an insurer of its students. The liability of the College under the law must be based on fault. It is necessary, in order to establish liability of the College for such injuries, not only to prove negligence or carelessness on the part of the College, but also to show that the student was free from any negligence or carelessness which might have contributed to the injuries.

Because of this fact, any liability insurance policy which the College might have does not and cannot provide reimbursement for medical costs resulting from such injuries. Hence, each student or prospective student is urged to review his personal health and accident insurance status. If he is no longer covered by his father's family plan (normally coverage expires upon reaching the age of 19), and he does not have an individual policy, we suggest that he participate in the Student Group Plan available through the College.

Contact the Business Office for details.

## REQUIREMENTS FOR GRADUATION

### Requirements for Classes Graduating in 1971 or Later

Effective September, 1967, both the college calendar and graduation requirements will be revised. The calendar will be changed from the present two-semester plan to the 4-1-4 plan, consisting of two semesters, each approximately four months in length, plus a one-month interim term. Normally, during each of the two semesters, a student will take four courses and during the interim he will take one. It is anticipated that as part of the new curriculum an Honors Program will be established for the superior student and a special program of assistance for students admitted on probation.

The academic year normally will be nine months in duration, commencing in September and continuing through May. In 1967, the academic calendar will begin on Wednesday, August 30, with a six-day period of freshman orientation and registration. Upperclassmen will register on Friday and Saturday, September 1 and 2, and all classes will start on Tuesday, September 5. The first semester, including examinations, will be completed by Thursday, December 21, and will be followed by a two-week Christmas vacation. The four-week interim term is scheduled immediately after Christmas vacation, starting on Thursday, January 4, 1968. The second semester will commence on Monday, February 5, and will conclude with Commencement on Saturday, May 25.

Students entering Calvin College in September, 1967 or later will be required to meet the new graduation requirements. All four-year degree programs shall require the completion of thirty-seven and one-half course units, including four interim courses. The required core curriculum normally shall consist of the following:

The Disciplines	Number of Courses
Mathematics .....	1
Chemistry, Physics, or an integrated course in physical science	1
Biological Science .....	1
Economics, Political Science, or an integrated course .....	1
Psychology, Sociology, or an integrated course .....	1
Fine Arts: Literature, Music, Art, Speech, or an integrated course in the arts (At least 1, but no more than 2, in American, English, or English and American literature) .....	3
History .....	2
Religion and Theology .....	2
Philosophy .....	2
 <b>The Competences</b>	
Written Rhetoric, competence required; normally demonstrated by completing one credit course satisfactorily .....	1
Spoken Rhetoric, competence required; normally demonstrated by completing one-half credit course satisfactorily .....	1/2
Physical Education, 4 semesters of participation .....	1
<b>Foreign Languages</b> .....	2

Every student at the time of admission must present credit for at least two high school years of at least one foreign language.

Students planning to enter the ministry or those planning to major in fields dependent upon ancient learning, are advised to take at least two years of Latin in high school.

No credit toward the completion of college graduate requirements shall be given for the first college year of a student's first foreign language. If a student has had no more than two high school years of foreign language, he must complete at least two college courses in at least one foreign language at the second college-year level. If he has had more than two high school years of foreign language, he must complete at least one college course in foreign language at the level of the second semester of the second college year or higher.

**Christian Perspectives of Learning** (subject to faculty approval)

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### Requirements for Classes Graduating Before 1971

The College graduates students from the following courses: General College, Education, Pre-Medical, Pre-Dental, Pre-Law, Pre-Engineering, and Pre-Medical Technology.

Every student (except those few who register as "special") must, in addition to the required physical education (see page 63), fulfill the requirements of the course and curriculum from which he elects to graduate. The requirements in each course are listed below. Students enrolled at Calvin College prior to September, 1967, may have the option of graduating under the requirements of either the present program or the new one, with accommodations necessary to convert from the credit hour to the course system; however, they must meet all of the requirements of the program under which they elect to graduate.

All full-time students registered at Calvin College are required to take courses in Religion and Theology. This requirement must include Religion and Theology 301. Students in residence for a full year are required to complete three semester hours; those in residence for two years at least six semester hours; those in residence three or four years at least nine semester hours.

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 COURSES OF INSTRUCTION.

All prescribed freshman and sophomore courses must be completed in the first two years. This includes required physical education.

A student enrolling for more than 18 hours a semester must have the approval of his academic counselor or the Registrar.

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

Every candidate for a baccalaureate degree, a three-year pre-professional diploma, or a provisional teacher's certificate must file an application to graduate, in the Registrar's Office, not later than the beginning of the semester or summer session in which he expects to receive his degree or certificate.

## BACHELOR OF ARTS - GENERAL COLLEGE COURSE

The requirements for the Bachelor of Arts - General College Course degree apply to all four-year students who complete the curricula outlined below:

General College  
Pre-Seminary  
Pre-Medical  
Pre-Dental

Pre-Law  
Pre-Engineering  
Pre-Business Administration  
Music Major

### General College

1. AMOUNT AND GRADE OF WORK. The student must complete 125 hours of work with an average grade of C. Honor points are computed on the basis of registered hours.

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

Religion and Theology 103, 206, 301	9
English 103, 104	6
History (101, 102 for entering Freshmen)	6
Philosophy (not including Logic)	6
*Mathematics 109, Physics 110 (Physical Science), Biology 111	12
Foreign Language	(see following explanation)
Physical Education -- 65-66 -	(See page 63)

### 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 modern language.
- b. Students who have earned credit for foreign language in high school may have this credit applied toward the fulfillment of the college language requirement. 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. However, a foreign language taken in high school is not credited toward a major or a minor nor toward the 125 hours required for graduation.
- c. The foreign language requirements must be completed by the end of the sophomore year.
- d. In exceptional cases, the Registrar of the College may approve a deviation from any or all the above rules.

### 3. DISTRIBUTION OF WORK. MAJORS AND MINORS

All students pursuing the course leading to a General College A.B. degree must, not later than the beginning of their junior year, apply to the chairman of the department of their selection for permission to major or to concentrate in that department. The department chairman, on

accepting 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, Spanish, Speech.
- Group II. Biology, Chemistry, Geography, Mathematics, Physics, Psychology.
- × Group III. Religion and Theology, Economics, Education, History, Philosophy, Political Science, Psychology, Sociology.

The student must distribute the total 125 hours (incl. those prescribed) among the three groups, complying with the following restrictions:

- 24  
+  
12 core group  
+  
language  
+  
english  
+  
wild  
to  
them
- a. At least 24 semester hours in one subject chosen from one of the above groups, I, II, or III. This constitutes a major. To make certain that he meets the major sequence requirements of his department, the student should check the requirements listed under Courses of Instruction.
  - b. At least 12 semester hours in one subject, other than the major subject, but in the same group from which the major subject is chosen. This constitutes the required minor in the major group.
  - c. At least 18 semester hours chosen from one of the other two groups, that is, other than the major group. At least 12 of these 18 semester hours must be in one subject. This constitutes a second minor.

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

A maximum of 8 semester hours of credit in applied courses will be allowed towards the bachelor's degree, except for music majors concentrating in Applied Music, in which case the maximum is 16 hours.

4. DEGREES A.B. and B.S. On satisfactory completion of this course, the student will receive the degree of Bachelor of Arts. If he has met all the requirements of this course and has completed 60 or more hours in Group II he may elect to receive the degree of Bachelor of Science instead of Bachelor of Arts.

5. BACHELOR OF ARTS DEGREE WITH STATE PROVISIONAL TEACHER'S CERTIFICATE. To be eligible for recommendation by Calvin College for a State Provisional Teacher's Certificate, a student must apply for admission to the Teacher-Education Program as explained on pages 74-79, and meet its requirements.

Directed Teaching must be taken at Calvin College to receive credit for graduation and to be recommended for a State Provisional Teacher's Certificate. This is in keeping with a general practice among colleges that student teaching be taken at the institution where the degree is earned and that is to recommend a student for a teaching certificate.

\*A student may, if he prefers, take mathematics plus a one-year sequence in biology, chemistry, or physics.

Prospective secondary school teachers who plan to teach in Canada should take the regular General College Course at Calvin and reserve their teacher preparation courses for a fifth year to be taken in Canada.

Prospective elementary school teachers who plan to teach in Canada should pursue the curriculum for elementary teachers, as outlined on pages 75-77.

### The Required Physical Education Program

#### *Requirement*

Physical education is a requirement for all freshman and sophomore students. (see p. 110 for course description.) All classes meet twice a week.

#### *Credit*

All students must meet the physical education requirement to graduate. Failure to meet this requirement will result in the withholding of the degree and diploma.

A grade of "Cr." (Credit) or "N.C." (No Credit) will be given for each course. In order to receive credit for a course a student must earn a passing physical education average. This average is based on ability, progress, attitude, attendance, skill, and written tests.

#### *Exemptions*

There will be no excuses from the physical education requirements. Older students and students with medical difficulties will be placed in restricted activities according to ability and need. Such students are asked to enroll in the Foundations Course and consult with the Director of Required Physical Education as soon as possible after registration.

#### *Equipment, Uniforms, Lockers*

Equipment for activities other than tennis will be supplied by the college.

Students enrolled in the instructional courses are required to buy a standard uniform. Warm-up suits are optional but the purchase of them is encouraged. These can be purchased at the Physical Education Building during registration.

Lockers and laundry service is available for all students. A \$5.00 deposit is necessary in securing a locker and will be returned at the end of the school year if all articles are returned in satisfactory condition.

### Pre-Seminary

To qualify for the degree of Bachelor of Arts from Calvin College, a student must meet all of the requirements for the General College Course outlined on pages 61-63. To qualify for admission as a degree candidate to Calvin Theological Seminary, a Calvin College student, in addition to earning a Bachelor of Arts degree, with a grade-point average of 2.67 (B-) or higher, should complete the course work outlined below.

1961  
2nd  
3rd  
4th  
1965  
1965  
4

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 institution 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.

3. 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 to attend eventually.

4. DIPLOMA AND DEGREE. Upon satisfactory completion of this course, and one year of successful work in a recognized medical or dental school, the student will be 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.

An average record of B is required for recommendation to a medical school.

It is the responsibility of the student who desires to secure a baccalaureate degree on the Combined Curriculum Plan to notify the Registrar's Office by April 1 of the year in which he expects to receive the degree.

### Four-Year Pre-Medical

1. AMOUNT AND GRADE OF WORK. The student must complete 125 hours of work with an average grade of C. Honor points are computed on the basis of registered hours. However, for admission to medical schools an average grade of B is required.

#### 2. 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 College Course, instead of the Bachelor of Arts.

b. The student must meet the prescribed course requirements of the Three-Year Pre-Medical Course, and, if possible, in the order given.

3. DISTRIBUTION OF ELECTIVES. Not less than 12 hours of his elected courses over and above the courses prescribed under 2 (above), but including philosophy, must be in Groups I and III.

### Three-Year Pre-Law

(See note regarding Pre-Law entrance requirements on page 28.)

For those students who wish to secure a baccalaureate degree from Calvin College on the combined curriculum plan, the following requirements must be met:

1. **AMOUNT AND GRADE OF WORK.** The student must complete 94 hours of work with an average grade of C. Honor points are computed on the basis of registered hours. He must obtain an average grade of B, to warrant faculty recommendation to a law school.

2. **PRESCRIBED WORK.** Of the 94 hours required, certain hours are prescribed as follows:

Religion and Theology .....	9 hours	Math-Science sequence .....	12 hours
English 103-4 .....	6 hours	Philosophy .....	6 hours
History 101-2 .....	6 hours	Foreign Language	

(See requirements on page 28.)

In addition, the student, in consultation with the pre-law adviser, must select a major and two minors. (Suggested fields are political science, history, economics, and philosophy.) Since the student cannot complete the required hours for a recognized major or minor, it is expected that he accumulate as many hours as possible in his selected fields.

For their electives, students should choose such subjects as are required for admission to the law school which they expect eventually to attend.

A suggested program for a three-year pre-law student who has selected a history major would be:

<i>Freshman Year</i>			
FIRST SEMESTER	<i>Hours</i>	SECOND SEMESTER	<i>Hours</i>
Religion and Theology 103 (1st or 2nd Sem.) .....	3	Mathematics 109 (1st or 2nd Sem.) .....	4
English 103 .....	3	English 104 .....	3
History 101 .....	3	History 102 .....	3
Foreign Language .....	4	Foreign Language .....	4
Speech .....	2	Speech .....	3
	<hr/> 15		<hr/> 17

<i>Sophomore Year</i>			
FIRST SEMESTER	<i>Hours</i>	SECOND SEMESTER	<i>Hours</i>
Religion and Theology (1st or 2nd Sem.) .....	3	Foreign Language .....	3
Foreign Language .....	3	Biological Science .....	4
Physics 110 (Physical Science) ....	4	Political Science 204 .....	3
Political Science 203 .....	3	History 216 .....	3
History 215 .....	3	Elective .....	3
	<hr/> 16		<hr/> 16

<i>Junior Year</i>			
FIRST SEMESTER	<i>Hours</i>	SECOND SEMESTER	<i>Hours</i>
Religion and Theology .....	3	History 314 or 316 .....	3
History 313 or 315 .....	3	Philosophy .....	3
Philosophy .....	3	Economics 202 .....	3
Economics 201 .....	3	Speech 202 .....	1
Philosophy 200 .....	3	Electives .....	5
	<hr/> 15		<hr/> 15

3. **DIPLOMA AND DEGREE.** On satisfactorily completing this course, and one year of successful work in a recognized law school, the student will



*Junior Year-Tentative*

FIRST SEMESTER	INTERIM	SECOND SEMESTER
<i>Courses</i>	<i>Courses</i>	<i>Courses</i>
Engineering Statics 1	Engineering -	Engineering
Philosophy ..... 1	Mathematics .... 1	Dynamics ..... 1
Fine Arts Elective 1		Engineering Mechs.
Technical Elective 1		of Materials .... 1
4		Philosophy ..... 1
	1	Elective ..... 1
		4

**TWO-YEAR PRE-ARCHITECTURAL PROGRAM**

Students planning to enter a pre-architectural program should consult with Professor Edgar Boeve of the Art Department or Professor James Bosscher of the Engineering Department. A suggested program for a two-year pre-architectural student would be:

*Freshman Year*

FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
Art 231 .....	3	Art 232 or Engineering 102 .....	3
Economics 201 .....	3	Economics 202 .....	3
English 103 .....	3	English 104 .....	3
Engineering 101 .....	3	Mathematics 112 .....	4
Mathematics 111 .....	4	Religion and Theology 103 .....	3
	16		16

*\*Sophomore Year*

FIRST SEMESTER	INTERIM	SECOND SEMESTER
<i>Courses</i>	<i>Courses</i>	<i>Courses</i>
Art - Design ..... 1	Elective ..... 1	Art - Design ..... 1
Literature ..... 1		Religion & Theology
Physics ..... 1		or Philosophy .... 1
Engineering Statics 1		Physics ..... 1
Spoken Rhetoric .. 1/2		Engineering Mechs.
		of Materials ..... 1
4 1/2	1	4

\*It is anticipated that students beginning their programs in 1966-'67 will move into the new Calvin 4-1-4 Course plan in their sophomore year.

**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 Registrar of the College.

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

Students planning to enroll in this program should have completed high school algebra, geometry, and chemistry or physics.

1. AMOUNT AND GRADE OF WORK. The student must complete 94 hours of work with an average grade of C. Honor points are computed

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

2. PRESCRIBED WORK. Of the 94 hours required, the following are prescribed:

Religion and Theology (including Religion and Theology 103) .....	6
Biology, General .....	8
Biology, Microbiology .....	4
Biology, Additional* .....	4
Chemistry, General .....	8
Chemistry, Additional† .....	8
English, Freshman .....	6
English or American Literature .....	6
Foreign Language .....	8
History .....	6
Mathematics .....	3 or 4
Psychology .....	3
Sociology, Principles or Problems .....	3
Philosophy, Perspectives or Ethics .....	3
Electives .....	18 or 17
	94

\*The remaining biology courses to complete the requirements may be selected from the following subjects: Human Anatomy and Physiology, Comparative Anatomy, Parasitology, Histology, Genetics, or other biology courses acceptable toward a biological science major.

†The other chemistry courses to complete the requirements may be selected from: Qualitative Chemistry, Quantitative Chemistry, Organic Chemistry, Organo-Biochemistry, Physical Chemistry, or other chemistry courses acceptable toward a chemistry major.

### Suggested Program

#### Freshman Year

FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
Biology 109 .....	4	Biology 110 .....	4
Chemistry 103 .....	4	Chemistry 104 .....	4
English 103 .....	3	English 104 .....	3
*Foreign Language .....	4	*Foreign Language .....	4
	15		15

\*If a student has had foreign language in high school, the number of hours prescribed may be reduced by four for each year of a foreign language completed in high school. If this requirement has been met, the student may substitute eight hours of electives.

#### Sophomore Year

Hours	Hours		
Religion and Theology 103 (1st or 2nd Sem.) .....	3	Mathematics (1st or 2nd Sem.) .....	3 or 4
Biology 107 .....	4	Chemistry 304 .....	4
Chemistry 303 .....	4	History 102 .....	3
History 101 .....	3	Electives .....	6
Psychology 201 .....	3		
	17		16 or 17

#### Junior Year

Hours	Hours		
Religion and Theology .....	3	Sociology .....	3
English 201 or 203 .....	3	English 202 or 204 .....	3
Philosophy 201 .....	3	Electives .....	9 or 10
Electives .....	5 or 6		
	14 or 15		15 or 16

3. **DIPLOMA AND DEGREE.** Upon satisfactory completion of this course, and 12 months of successful work in an accredited school of medical technology, the student will be eligible for the degree of Bachelor of Science in Medical Technology on the Combined Curriculum Plan.

It is the responsibility of the student who desires to secure a baccalaureate degree on the Combined Curriculum Plan to notify the Registrar's Office by April 1 of the year in which he expects to receive the degree.

### **Major in Business Administration**

Candidates for a Bachelor of Arts 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. 61). For students interested in Business Administration but who desire to earn a Bachelor of Business degree at one of the universities a two- or three-year course can be arranged. Since the emphasis in the professional schools today is upon a broad liberal arts training, however, 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. To complete the major group requirements he should elect 24 hours in economics and 12 hours in another department listed in Group III (see p. 62). The student may elect to complete his minor group requirements by selecting subjects either in Group I or 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 of Arts 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.

### **Pre-Business Administration**

Students interested in business administration may select a pre-Business Administration program, or a four-year Bachelor of Arts degree program in the Department of Economics at Calvin College. The latter should complete the subjects prescribed for the General College course (see p. 61), and should confer with the Economics staff for an appropriate selection of courses.

For students in a pre-Business Administration program who desire to earn a Bachelor of Business degree at one of the universities, a two- or three-year course can be arranged.

Since the emphasis in the professional schools today is upon a broad liberal arts training, however, the student should consider the advisability of remaining at Calvin College for four years and transferring to a uni-

versity 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. To complete the major group requirements he should elect 24 hours in economics and 12 hours in another department listed in Group III (see p. 62). The student may elect to complete his minor group requirements by selecting subjects either in Group I or Group II. The 24 hours in economics must include Economics 201 and 202 and Economics 305 and 306.

### Major in Music

Permission to major in music must be obtained from the department through its chairman. Application for permission to major in music must be made at the end of the sophomore year.

Candidates for the A.B. degree in the General College Course or in the Education Course may select music as a major field. The major sequence consists of a minimum of 40 hours. The following requirements apply:

- a. The general course requirements as prescribed for either the General College Course (see p. 61) or the Education Course (see p. 74).
- b. Sufficient proficiency at the piano to pass the minimum keyboard requirement test. Concentrates in Vocal Music Education must pass a piano test demonstrating ability equivalent to Music 142.
- 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 History and Literature of Music .....	12 hours
*Applied Music .....	8 hours
Electives in Music .....	2 hours

#### 2. MUSIC THEORY

Advanced courses in Music Theory .....	12 hours
*Applied Music .....	8 hours
Electives in Music .....	2 hours

#### 3. SOLO INSTRUMENT OR VOICE

†Applied Music (Private lessons in one instrument or voice) up to .....	16 hours
Electives in Music .....	6 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
Private lessons on the major instrument, of which at least four semesters are required .....	4 hours

\*More than eight hours of applied music may be taken but only eight 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.

Music 333 (Teaching of Instrumental Music) .....	3 hours
Proficiency on secondary instruments, equivalent to two semesters each on string, wood-wind, and brass instruments and one semester on percussion instruments and also one semester in 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 331 and 332 (Teaching of Vocal Music) .....	6 hours
Music 313-314 (Conducting) .....	2 hours
Music 141-142 or equivalent (Piano) .....	2 hours

Candidates for the A.B. degree in the Education Course, or for the A.B. degree in the General College Course, with a Michigan State Teacher's Certificate, 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. 74) in addition to the requirements given under "a" through "e" (see p. 72).

If the student intending to major in music is not a pianist or organist, it is recommended that piano study begin *before* entering Calvin. Non-credit piano lessons will be required of all prospective music majors who cannot successfully pass the minimum keyboard requirement test during the opening weeks of school.

#### 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

Music minors interested in earning a Michigan State Teacher's Certificate must add to these requirements Music 331 for the Elementary Certificate, or Music 332 for the Secondary Certificate.

#### 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 or Voice. In addition the student should elect Music 303-304 (Counterpoint), Music 219-220 (Church Music), Music 313-314 (Conducting), and Music 117-118 (Voice) or Music 109-110 (Organ). The ensemble requirement should be met by participation in one of the choirs.

## 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 15 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.

The College Chamber Band is a select group of musicians chosen from the Concert Band to play literature particularly suitable to a smaller wind ensemble.

The College Varsity Band is organized as an activities band, performing at athletic events, student activities, Knollcrest functions, and at an annual spring concert.

The Meistersingers, a student-directed chorus of selected male voices, serves an important purpose on our campus. Organized primarily to sing at campus functions such as Homecoming and the annual Moonlight Musicales at Knollcrest, the choir also sings several sacred concerts each season.

The Chamber Singers, a student-directed mixed chorus of selected voices, studies and performs vocal music suitable for a small ensemble.

The Women's Chorus, a student-directed chorus of selected women's voices, studies and performs vocal music suitable for a small ensemble of treble voices.

## BACHELOR OF ARTS IN EDUCATION — TEACHER EDUCATION PROGRAM

To obtain a Bachelor of Arts degree in Education, and to secure a Michigan State Provisional Teacher's Certificate a student must be a *citizen of the United States or have filed a statement of intention*, must be admitted to the Teacher-Education Program and complete its requirements for either the elementary or secondary level. Students interested in special fields in education should confer with the Chairman of the Education Department.

*Admission to the Program* — To be admitted to the Teacher-Education Program a student may make formal application as soon as he has sophomore standing. He should do this before the end of the sophomore year

because delay of application until the junior or senior year may make it difficult to complete requirements in four years.

Application forms are available in the Education Department Office.

At the time of application the student should ask for a copy of the pamphlet, *So You Want To Be a Teacher*. This pamphlet outlines in detail the steps to follow in completing the Teacher-Education Program.

### Curriculum and Major and Minor Sequences for Elementary Teachers\*

I. **AMOUNT AND GRADE OF WORK.** The student must complete 125 hours of work with an average grade of C. To be eligible for student teaching, he must attain a C average (2.00 honor points) at the end of the school year preceding the year in which he plans to do his student teaching.

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

A. <i>General Education (Degree Requirements):</i>	<i>Hours</i>
Religion and Theology 103, 206, 301 .....	9
Biology 111 .....	4
Physics 110 (Physical Science) .....	4
Mathematics 109 .....	4
English 103-104 .....	6
History 101-102 .....	6
Psychology 201 .....	3
Speech 109 or 303 .....	3
Physical Education .....	3 semesters
Foreign Language .....	14

Students who have earned credit for a foreign language in high school may have this credit applied toward fulfillment of the college language requirement, if the same language is continued. However, a foreign language taken in high school is not credited toward a major or a minor nor toward the 125 hours required for graduation.

Four semesters of one foreign language in *high school* is the equivalent of two semesters of the language in college.

B. <i>Professional Education Courses:</i>	<i>Hours</i>
Psychology 202 .....	3
Education 203-204 .....	6
Education 315 .....	3
Education 322 .....	3
Education 343 .....	8

C. <i>Additional Courses:</i>	<i>Hours</i>
Art 201 or 306 .....	3
Geography 103 .....	3
Music 221 or 222 .....	3
Psychology 204 .....	3
Sociology 203 or 204 .....	3

\*Prospective elementary teachers who plan to teach in Canada, as well as those who plan to teach in the United States, must follow this curriculum.

### III. DISTRIBUTION OF WORK. Major and Minor Sequences.

A student is required to complete 30 semester hours in one area and 18 semester hours in another. Recommended major and minor sequences are listed below.

Concentrating in an area, however, does not preclude the possibility of majoring or minoring in a specific subject. For example, students who desire to major in English may, within their English Studies major, reduce the courses in Speech to 3 hours and take 27 hours in English. An additional three-hour course in English would then also give the student an English major. Similar arrangements can be worked out for majors or minors in Speech, History, Sociology, Psychology, Art, and Music. The coordinator of elementary education will give the necessary guidance if such a program is desired.

Students desiring to teach Art, Music, or Physical Education may follow the elementary or secondary program, since those who major in these subjects may teach them at all grade levels, K through 12. It is advisable, however, to follow the program for the grade level at which the student expects to do most of his teaching.

#### ENGLISH STUDIES

Major sequence — 30 hours

Required (21 hours):	Hours
English 103-104 .....	6
English 201-202 .....	6
Speech 109-303 .....	6
Education 225 .....	3

Recommended electives (9 hours):

English 203-204 .....	6
English 309 .....	3
Speech 202 .....	1
Speech 215 .....	2

Minor sequence — 18 hours

Required (11 hours):	Hours
English 103-104 .....	6
Speech 109 or 303 .....	3
Speech 215 .....	2

Recommended electives (7 hours):

English 203-204 .....	6
Other courses listed under Major sequence	

#### ART AND MUSIC STUDIES

Major sequence — 30 hours

Required (15 hours):	Hours
Art 306, 231, 232 .....	9
*Music 221-222 .....	6

Recommended electives (15 hours):

Art 201 .....	3
Art 306 .....	3
Music 103-104 .....	6
Music 211-212 .....	6
Music 305-306 .....	6
Music 313 .....	1
Music 314 .....	1
Music 331 .....	3

\*Students electing Music 103 will not be required to take Music 221; students electing Music 331 will not be required to take Music 222.

**Minor sequence — 18 hours****Required (9 hours):**

Art 201 or 306 .....	3
*Music 221-222 .....	6

**Recommended electives (9 hours):**

May be selected from courses listed under  
Major sequence.

**SOCIAL STUDIES****Major sequence — 30 hours****Required (21 hours):**

History 101-102 .....	6
History 215-216 (or 209-210) .....	6
Sociology 203 or 204 .....	3
Geography 103 .....	3
Political Science 203 .....	3

**Recommended electives (9 hours):**

History 205-206 .....	6
History 305-306 .....	6
Political Science 204 .....	3
Economics 203 .....	3
Philosophy 205 .....	3
Sociology 203 or 204 .....	3
Sociology 309 .....	3
Sociology 310 .....	3

**Minor sequence — 18 hours****Required (12 hours):**

History 101-102 .....	6
Geography 103 .....	3
Sociology 203 or 204 .....	3

**Recommended electives (6 hours):**

History 215-216 or 210 .....	6 or 7
Political Science 203 .....	3
Other courses listed under Major sequence.	

**SCIENCE STUDIES****Major sequence — 30 hours****Required (18 hours):**

Biology 111 .....	4
Physics 110 (Physical Science) .....	4
Mathematics 109 .....	4
Psychology 201-204 .....	6

**Recommended electives (12 hours):**

Biology 105-106 .....	6
Biology 107 .....	4
Psychology 209, 212, 302, 311 .....	3

**Minor sequence — 18 hours****Required (18 hours):**

Biology 111 .....	4
Physics 110 (Physical Science) .....	4
Mathematics 109 .....	4
Psychology 201-204 .....	6

**Recommended electives:**

Psychology 209 or 212 .....	3
Biology 105 or 106 .....	3

*any soc, any hist or any polit. Sci.*

*only 1 Econ-203 & only 1 Phil. 205.*

*Hours applies*

## Curriculum and Major and Minor Sequences for Secondary Teachers

I. **AMOUNT AND GRADE OF WORK.** The student must complete 125 hours of work with an average of C. To be eligible for student teaching, he must attain a C average (2.00 honor points) at the end of the school year preceding the year in which he plans to do his student teaching.

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

A. <i>General Education (Degree Requirements):</i>	<i>Hours</i>
Religion and Theology 103, 206, 301 .....	9
Biology 111 .....	4
Physics 110 (Physical Science) .....	4
Mathematics 109 .....	4
<b>English 103-104</b> .....	<b>6</b>
<b>History 101-102</b> .....	<b>6</b>
Psychology 201 .....	3
Foreign Language .....	14
Physical Education .....	3 semesters

Students who have earned credit for a foreign language in high school may have this credit applied toward the fulfillment of the college language requirement, if the same language is continued. However, a foreign language taken in high school is not credited toward a major or a minor nor toward the 125 hours required for graduation.

Four semesters of one foreign language in *high school* is the equivalent of two semesters of the language in college.

B. <i>Professional Education Courses</i>	<i>Hours</i>
Psychology 202 .....	3
Education 203-204 .....	6
Education 314 .....	5
Education 344 .....	6

### III. MAJOR AND MINOR SEQUENCES

A student is required to complete a major of 30 hours and a minor of 18 hours, these to be selected from the following subject matter areas:

Art	Geography	Music
Biology	German	Physics
Chemistry	History	Physical Education
Economics	Political Science	Sociology
English	Latin	Spanish
French	Mathematics	Speech

Psychology may be selected as a minor, provided Sociology is not selected as a major or minor. Psychology 202 may not be included in the psychology minor.

Prospective secondary school teachers, when selecting specific courses within their major and minor fields of concentration, should make their

**selections** in consultation with the chairmen of the departments involved and with the approval of the coordinator of secondary education.

The Michigan State Department of Public Instruction does not consider either religion and theology or philosophy as a major or minor for a teacher's certificate.

According to the current practice, education students who desire preparation in commercial and vocational teaching are referred to colleges or universities offering the required courses.

Prospective secondary school teachers who plan to teach in Canada should take the regular General College Course at Calvin and reserve their teacher preparation courses for a fifth year to be taken in Canada.

General College Course requirements in the freshman and sophomore years may have to be moved up if course sequences in a major area should require this, e.g. History 101-102 may have to be postponed if a student is to start physics in the freshman year.

**Note:** Directed Teaching must be taken at Calvin College to receive credit for graduation and to be recommended for a State Provisional Teacher's Certificate. This is in keeping with a general practice among colleges that student teaching be taken at the institution where the degree is earned and that is to recommend a student for a teaching certificate. Upon completion of requirements for the A.B. degree in education, a student must make application in the Education Office for the Michigan Provisional Certificate.

### Nursing Program

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

#### FIRST SEMESTER

<b>Courses taken at the College:</b>	<i>Hours</i>	<b>Courses taken at the Hospital:</b>
Religion and Theology 103 .....	3	
Biology 105 .....	3	
Biology 107 .....	4	Basic Nursing I
English 103 .....	3	
Psychology 201 .....	3	Trends in Nursing I
	<hr/>	
	16	

#### SECOND SEMESTER

<b>Courses taken at the College:</b>	<i>Hours</i>	<b>Courses taken at the Hospital:</b>
Biology 106 .....	3	
Chemistry 101 .....	3	
English 104 .....	3	Nutrition
Sociology 203 .....	3	
	<hr/>	
	12	Basic Nursing II

Upon completion of these two semesters and an additional 27 months of clinical experience at Blodgett Memorial Hospital the student is granted a diploma in nursing by the Blodgett Memorial Hospital School of 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.

Applicants wishing to take the Nursing Program must make application with the Director of the School of Nursing at Blodgett Memorial Hospital. This application should be submitted during the early part of the senior year in high school. No application will be acted upon until all forms are at Blodgett. Admission to the Nursing Program is determined by the Admissions Committee of the Blodgett Memorial Hospital School of Nursing.

### Pre-Librarianship

The educational requirement for professional library work is a Bachelor's degree from an accredited college and a Master's degree in library science.

Calvin College offers courses of study which are acceptable for admission to any library school and for any type of specialization. While no special major is required, the course of study should stress a broad cultural background in liberal arts and science. Proficiency in typing should also be acquired. A reading knowledge of a modern foreign language is required.

Pre-library students may be given the opportunity for part-time work experience in the library.

### Pre-Library Work Counseling

Detailed information regarding types of library work, library school requirements, and work-study programs may be obtained from the Director of the Library.

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

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

# Courses of Instruction

I—Offered first semester  
 II—Offered second semester

## Art

BOEVE (acting chairman), JENSEN, OVERVOORDE

201. **Introduction to Art.** I and II Three hours  
 Information and practice in the basic elements and principles of art as applied to drawing, values, color, design, lettering, and poster work. The student learns to manipulate various art media. Prerequisite for all studio art courses and Art 306.
203. **Creative Drawing.** I and II Three hours  
 Various media will be used to explore the possibilities and problems in drawing from a creative, personal point of view. Famous artists of the past and present will be studied to acquaint the student with a variety of approaches to the medium. Six class hours per week.
207. **Introduction to Design.** I Three hours  
 Pure design, design in pictorial representation, perspective drawing; various black and white media used in basic art elements, i.e. line, shape, texture, pattern. Work may include three-dimension problems. Six class hours per week.
208. **Introduction to Design.** II Three hours  
 Continuation of 207. Prerequisite: 207.  
 Work in color — hue, value, intensity; the utilization of these elements in organization of pure design and pictorial representation. Media to include water colors, tempera, and acrylic paint. Six class hours per week.
210. **Three-Dimensional Design.** II Three hours  
 Construction, carving, and modeling in various materials will be pursued in relation to problems of space, movement, balance, rhythm and integration of the total form. Six class hours per week.
220. **Print Making.** I Three hours  
 The course aims to give the student experience in the media of wood block printing and silk screen process. Six class hours per week.
231. **An Introduction to the History of the Fine Arts.** I Three hours  
 A survey of the history of architecture, painting, and sculpture in Ancient, Medieval and Renaissance times. The character of ancient art from Egypt through Rome will be followed by a study of medieval art from its beginning in the early days of the Christian era to its climax in the Gothic period of the thirteenth century. This course will be concluded with an introduction to the art of the Renaissance in Italy to 1600.
232. **An Introduction to the History of the Fine Arts.** II Three hours  
 Continuation of 231. The history of art from 1600 to the present.
240. **Contemporary Painting and Architecture.** I Three hours  
 A study of painting from Impressionism to the present with emphasis on Expressionism, Abstractionism, Non-objectivism and Abstract Expressionism. Architecture will be studied in relation to programming, technology, materials, and site, beginning with Sullivan, Eiffel, and Gaudy and continued into the 20th century with Wright, La Corbusier, Neutra, Mies, Vander Rohe, and Saarinen. Outside reading and papers will be required. Prerequisite: Art 231-232.

301. **Advanced Painting. I** Three hours  
 Prerequisite: 207-208.  
 A study of the traditions in painting emphasizing techniques and methods of communicating ideas visually. Studio work will give opportunity to experiment in various techniques and subjects. Six class hours per week.
302. **Advanced Painting. II** Three hours  
 Continuation of 301.  
 An exhibition will be expected of each student at the conclusion of the year. Six class hours per week.
306. **Principles of Art Education. I and II** Three hours  
 Prerequisite: 201, or a studio art course.  
 A course emphasizing methods and techniques of organizing and motivating art instruction. It includes lectures and demonstrations.

### Astronomy

Students interested in graduate work in astronomy should major in mathematics and physics and should confer with the Chairman of the Physics Department.

### Biology

TEN BROEK (chairman), BENGELINK, A. BRATT, M. DE BOER, GEBBEN, KARSTEN, \*KLOOSTER, VAN HARN

A. Students expecting to do *graduate* work in Biology should take Biology 109-110 plus 24 hours of advanced course work. These 24 hours should produce a background in each of the following areas:

1. Animal morphology (Biology 201, 208, or 311)
2. Plant morphology (Biology 203 or 204)
3. Genetics (Biology 207)
4. Physiology (Biology 314\*\*)
5. Ecology (Biology 313)
6. Systematics (Biology 301)

B. *Biology Minor*: The student minoring in biology should take Biology 109-110, plus other courses determined by major department in consultation with Biology department.

C. *Education Students Majoring or Minorng in Biology*: A student intending to teach biology in the secondary school should take the following:

Major—Biology 109-110, 201, 203 or 204, 313, 314\*\*, 207, 301.

Minor—Biology 109-110, 201, 203 or 204, and one of the following: 313, 314\*\*, 207, or 301.

105. **Human Anatomy and Physiology. I** Three hours  
 An introduction to the study of human biology, including elements of anatomy, histology, and physiology. Two hours of lectures and one laboratory session per week.
106. **Human Anatomy and Physiology. II** Three hours  
 Continuation of 105 which is prerequisite.
107. **Microbiology. I** Four hours  
 An introduction to the principles and techniques of microbiology, with emphasis on the bacteria. Three hours of lecture and one laboratory period per week.
109. **General Biology. I and II** Four hours  
 An introduction to the protists, plant diversity, and plant structure and function. Three hours of lecture and one laboratory period per week.

\*On leave of absence 1966-'67.

\*\*Prerequisites are Chemistry 103-104 and Chemistry 301-302 or 303-304.

- 110. General Biology. I and II** Four hours  
 An introduction to animal diversity, structure, and function. Three hours of lecture and one laboratory period per week.
- 111. Biological Science. I and II** Four hours  
 An introduction to the principles and concepts of biology, and the history and philosophy of biological thought for the liberal arts student. Lectures and laboratory. Prerequisites: Mathematics 109 and Physics 110.
- 201. Invertebrate Zoology. I** Four hours  
 Anatomy, physiology, behavior and classification of animals representative of the invertebrate groups. Three hours of lecture and one laboratory session per week. Prerequisite: Biology 109-110.
- 203. Plant Morphology. I** Four hours  
 A consideration of structure, life cycles, and phylogeny of the algae, fungi, and bryophytes. Three hours of lecture and one laboratory session per week. Prerequisite: Biology 109-110.
- 204. Plant Morphology. II** Four hours  
 Continuation of 203 dealing with the vascular plants. Prerequisites: Biology 109-110, Biology 203 advised but not required.
- 206. Natural History of the Vertebrates. Not offered 1966-'67.** Four hours  
 A study of the classification, identification, habits, and habitats of the vertebrate animals. The course consists of lectures, museum studies, laboratory work, and field work. Three hours of lecture and one laboratory session per week. Prerequisite: Biology 109-110.
- 207. Genetics. I** Three hours  
 An introduction to the principles and concepts of heredity. Three hours of lecture per week. Prerequisites: Biology 109-110.
- 207L. Genetics Laboratory. I** One hour  
 An introduction to the experimental phase of genetics.  
 Prerequisites: Biology 207 and consent of instructor.
- 208. Introduction to Embryology. II** Four hours  
 A study of the development of animals. Three hours of lectures and one laboratory session per week. Prerequisite: Biology 109-110.
- 301. Plant Taxonomy. II**  
 An introduction to the principles and concepts of plant systematics. Lectures, laboratory work, field trips, and special projects. Two hours of lecture and two laboratory sessions per week. Prerequisites: Biology 109-110. Biology 204 and 207 recommended.
- 306. Biological Problems. Not offered 1966-'67.** Two hours  
 The history of biology and the evidences for evolution and organic teleology are considered. Lectures, assigned readings, recitation, and reports. Prerequisite: Biology 109-110 or equivalent courses.
- 307. Parasitology. II** Four hours  
 An introduction to the study of the parasites of man and of common animals. Classification, life-cycles of the parasites, and reactions of the hosts will be studied. Three lectures and one laboratory period per week. Prerequisite: Biology 109-110.
- 308. Histology. I** Four hours  
 A study of mammalian tissues. The relationship of microscopic structure to function is emphasized. Three lectures and one laboratory period per week. Prerequisites: Biology 109-110, 105-106, or consent of instructor.

311. **Comparative Anatomy of Vertebrates. II** Five hours  
 A comparative study of the anatomy of vertebrate animals. Three lectures and two laboratory sessions per week. Prerequisites: Biology 109-110, Biology 208 recommended.
313. **General Ecology. I** Four hours  
 An introduction to the principles and concepts of ecology. Three lectures and one laboratory or field session per week. Prerequisites: Biology 109-110, Biology 301, or consent of instructor.
314. **General Physiology. II** Four hours  
 An introduction to the principles and concepts of the physiology of plants and animals. Three lectures and one laboratory session per week. Prerequisites: Biology 109-110, Chemistry 103-104; and Chemistry 301-302 or Chemistry 303-304. Physics 201-202 strongly recommended.
380. **Biology Journal Seminar. I and II** One hour  
 This course consists of the presentation and discussion of papers from biological journals and is open to majors in biology at the Junior and Senior levels.
381. **Senior Research. I and II** Two hours  
 Laboratory or field research on an assigned problem. Open only to selected seniors majoring in biology. Prerequisite (or taken concurrently): Biology 380.

## Chemistry

DIRKSE (chairman), BROENE, DE VRIES, VANDER LUGT,  
 VAN DOORNE, WOLTHUIS

A student who plans to do graduate work in chemistry and who expects to receive certification by the American Chemical Society Committee on the Professional Training of Chemists should complete the following courses: Chemistry 103-4, 201, 301-2, 305, 307-8, 309, 310, 320. In related fields, he should complete mathematics through calculus, and Physics 205, 206, 303, 304. Students planning to enter graduate school should have a reading knowledge of both German and French.

Students who desire a chemistry major for teaching in secondary schools may select Physics 201-2 or Physics 205-6 as partial fulfillment of the Chemistry major sequence.

101. **Chemistry for Nurses. II** Three 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 per week.  
 No prerequisite.
103. **General Chemistry. I** Four hours  
 A study of the basic laws, theories and principles of chemistry, with emphasis on the laws of chemical combination, theories of atomic structure and chemical bonding, the periodic law, kinetic theory, and chemical and physical equilibria. Three classroom hours and one laboratory period per week.  
 Prerequisite: a high school chemistry course is strongly recommended.
104. **General Chemistry. II** Four hours  
 A continuation of the study of chemical principles with emphasis on the nonmetallic elements and their compounds. The laboratory work deals with the systematic separation and identification of anions and cations. Three classroom hours and one laboratory period per week. Prerequisite: Chemistry 103.

201. **Quantitative Analysis. I** Four hours  
 Two hours of classroom work and two three-hour laboratory periods each week. This course consists of a study of the theory and practice of acidimetry, alkalimetry, permanganimetric and iodometric analyses, and gravimetric determinations. Prerequisite: Chemistry 104.
204. **Physical Chemistry for Pre-Medical Students. II** Three hours  
 A study of the states of matter, properties of solutions, chemical kinetics, and the colloidal state. Three lecture hours per week. Prerequisite: Chemistry 201.
301. **Organic Chemistry. I** 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 three-hour laboratory period per week. Prerequisite: 103 and 104. Chemistry 201 is desirable.
302. **Organic Chemistry. II** Four hours  
 Continuation of 301, with emphasis on aromatic compounds and isolated topics. Hours the same. Prerequisite: 301.
303. **Organo-Biochemistry. I** Four hours  
 A study of organic compounds, with special emphasis on their biochemical 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 hours of laboratory per week. Prerequisites: 103 and 104.
304. **Organo-Biochemistry. II** Four hours  
 Continuation of 303. Hours the same.
305. **Qualitative Organic Analysis. I** Four hours  
 Two hours of lectures and two or three three-hour laboratory periods per week. This course is based on Shriner and Fuson's text. Prerequisite: 302.
307. **Physical Chemistry. I** Four hours  
 A study of the kinetic theory of gases, solids and liquids. Three lecture hours and one laboratory period per week. Prerequisites: Chemistry 104, Mathematics 112.
308. **Physical Chemistry. II** Four hours  
 Continuation of 307. Hours the same. A study of electro-chemistry, chemical thermodynamics and kinetics.
309. **Advanced Quantitative Analysis. II** Four hours  
 This course consists of two lecture hours and two laboratory periods per week. A study of optical, electrometric, chromatographic, and radiochemical methods of analysis. Emphasis is placed on the theoretical basis for each method. Prerequisite: Chemistry 307.
310. **Advanced Inorganic Chemistry. II** Three hours  
 A course dealing with the chemistry of the elements with emphasis on chemical periodicity and the nature of chemical bonding. Crystal field theory and ligand field theory are discussed in connection with the chemistry of the transition metals. Prerequisite: Chemistry 308.
320. **Chemical Research. II** Three hours  
 Library and laboratory research on an assigned problem. Only for approved Seniors majoring in chemistry.

## Dutch

LAGERWEY

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

- |      |  |             |
|------|--|-------------|
| 101. | Elementary Dutch. I<br>An introductory course in the comprehension and use of spoken and written Dutch.  | Four hours  |
| 102. | Elementary Dutch. II<br>Continuation of 101  | Four hours  |
| 201. | Intermediate Dutch. I<br>Selected readings of modern Dutch prose and poetry. Review of grammar and syntax; collateral reading reports.   | Three hours |
| 202. | Intermediate Dutch. II<br>Continuation of 201.   | Three hours |
| 205. | Readings in Dutch Church History. I<br>A study, in the Dutch language, of Source Documents pertaining to the History of the Reformed Churches in the Netherlands in the period 1450-1700.                  | Three hours |
| 206. | Readings in Dutch Church History. II<br>Continuation of 205 for the period 1700-1945.  | Three hours |
| 305. | Dutch Classics. Not offered 1966-'67.<br>Study and discussion of several Dutch literary texts representative of the classical and modern periods of Dutch literature. Required outside reading and essays. | Three hours |
| 306. | Dutch Classics. Not offered 1966-'67.<br>Continuation of 305.  | Three hours |

## Economics

BROUWER (chairman), R. BOSSCHER, KUIPERS, PRUIS

All students majoring in Economics must take Economics 201-2, 322, and at least one course in Accounting (students planning to pursue a business career or who plan to do graduate work in Business Administration must take the Economics 305-6 sequence in Accounting).

It is strongly recommended that all Economics majors take cognate work in Mathematics, such as (1) a minor in Mathematics, or (2) the Mathematics 205-6 sequence (this sequence does not apply toward a major in Economics).

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|------|--|-------------|
| 201. | Principles of Economics. I<br>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.   | Three hours |
| 202. | Principles of Economics. II<br>A continuation of the principles of economics and an application of the same to current industrial problems and institutions.   | Three hours |
| 203. | Principles of Economics. I and II<br>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. This course may serve as a prerequisite to advanced courses for students not concentrating in economics. Not open to Freshmen. | Three hours |

- 301. Money and Banking. I** Three hours  
 A study of the nature and functions of money, with a view to the understanding of the role of currency systems in our national and international life. Prerequisites: 201 and 202 or their equivalents.
- 302. Financial Principles. II** Three hours  
 An introductory course in business finance including study of forms of business organization, types and sources of capital, and other areas of financial administration. Prerequisite: 305.
- 303. Labor Economics. I** Three hours  
 The problems of labor-management relations are considered from the standpoint of economic and social principles. The labor market, wages and hours, unemployment, and economic insecurity are analyzed in the light of developing labor legislation and trade unionism. Prerequisites: 201 and 202.
- 305. Essentials of Accounting. I** Three..hours  
 First semester of a one-year introductory course in accounting. Intended to give students the necessary accounting background for entrance into schools of business administration or for business uses when graduated from college. Emphasis is placed on the principles of accounting and the accounting procedure in corporations. Prerequisites: 201 and 202 or their equivalents.
- 306. Essentials of Accounting. II** Four hours  
 Continuation of 305, with the addition of a two-hour lab period.
- 307. Essentials of Accounting. I** Three hours  
 A one-semester course stressing the theory of accounting. Designed for Economics majors not planning graduate work in Business Administration or careers in business and for students in other majors (e.g. pre-engineering, pre-law, sociology, political science). Not open to freshmen.
- 309. Business Law: Contracts. I** 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.
- 311. History of Economic Thought. II** Three hours  
 A systematic study of the development of economic doctrine, emphasizing the development of economic thought from Smith through Keynes; it introduces the student to the way in which economic thinking and analysis emerge and develop against the background of changing historical conditions. Prerequisite: Principles of Economics, or permission of instructor.
- 312. Cost Accounting. II** Three hours  
 Principles and methods of accounting for manufacturing and operating costs, with emphasis on cost analysis for managerial control. Prerequisite: 306, or 305 and permission of instructor.
- 314. International Economics. II** Three hours  
 A general course in the field of international economic relations. The fundamentals of international trade theory are stressed, including the balance of payments, problems of international dis-equilibrium, trade barriers, and efforts to promote international economic stability and growth. Prerequisites: 201 and 202.
- 321. The National Income. I** Three hours  
 An intermediate course in macro-economic theory. Monetary and fiscal determinants of the national income, economic growth, and the price level are stressed. Prerequisites: 201 and 202.

**322. The Price System. II** **Three hours**

An intermediate course in micro-economic theory, with emphasis on the theories of consumer behavior, price determination, and the distribution of income. Prerequisite: 201 and 202.

### Education

VAN BRUGGEN (chairman), BEVERSLUIS, BOS, DE BEER, P. DE BOER, HAAN, HENDRICKS, HOEKSTRA,\* KASS, D. OPPEWAL, REYNOLDS, SNAPPER, VANDER ARK, YOUNGS, ZYLSTRA

#### A. PSYCHOLOGY

**202. Educational Psychology. I and II** **Three hours**

A psychological study of the learner, the learning process, and the kinds of learning. Psychology 201, or its equivalent, is a prerequisite.

#### B. HISTORY

**203. Historical and Philosophical Foundations of Education. I and II** **Three hours**

An analysis of the relationship between educational theory and practice and their social and philosophical setting. Course materials may be drawn from either ancient and medieval European or contemporary American education.

**204. Historical and Philosophical Foundations of Education. I and II** **Three hours**

A study of the American school systems in their historical setting from Colonial times to the present. Special attention is given to the ways in which social and intellectual movements affect educational theory and practice.

#### C. PRINCIPLES

**314. Principles of Teaching in Secondary Schools. I and II** **Five hours**

A study of the principles, methods, and techniques appropriate to the direction of the learning process at the secondary level. Includes a study of the problems peculiar to the discipline taught by the student, who is concurrently enrolled in Education 344, Directed Teaching. Prerequisites: Psychology 202 and Education 203 and 204.

**315. Principles of Teaching in Elementary Schools. I and II.** **Three hours**

A study of the principles, methods, and techniques appropriate to the direction of the learning process. Prerequisites: Psychology 202; Education 203 and 204. Offered concurrently with Education 343.

#### D. PROFESSIONAL COURSES

**220. Teaching Arithmetic in Elementary Schools.** **Three hours**  
Not offered 1966-'67.

Both content and methods in arithmetic throughout the grades will be considered. Prerequisite: Psychology 202.

**222. Elementary School Music (A Methods Course). II** **Three hours**  
Prerequisite: Music 221.**225. Children's Literature. I and II** **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.

\*On leave of absence 1966-'67.

231. **Audio-Visual Aids in Education.** Not offered in 1966-'67      **Three hours**  
 The study of multi-sensory aids to learning, oriented in psychology. Includes study of graphic media, multi-dimensional models, field trips, magnetic recording, projected material and associated equipment, radio and television. Three class sessions include laboratory period.
307. **School Administration.** Not offered in 1966-'67.      **Three hours**  
 A study of the structure, organization, administration and management of the elementary and secondary school. Development of professional leadership and supervisory practices.
310. **Educational Measurements.** I and II      **Three hours**  
 A survey course in evaluation and measurements including concepts of testing, construction and uses of teacher-made tests, standardized tests, and marking systems.
322. **Teaching Reading in Elementary Schools.** I and II      **Three hours**  
 A study of the physiological, psychological, and behavioral prerequisites for success in reading, a sequential analysis of reading skills, and a consideration of the broader area of language arts.  
 Section A is geared toward the primary grades, Kindergarten through grade 3.  
 Section B is geared toward the intermediate grades 4 through 6.  
 Prerequisites: Psychology 202 and Education 203-204. Offered concurrently with Education 343.
340. **Curriculum.** Not offered in 1966-'67.      **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**  
 I and II  
 For students planning to teach in the elementary schools.
344. **Directed Teaching, including Observation and Participation.**      **Six hours**  
 I and II  
 For students planning to teach in junior or senior high schools.

## Engineering

BOSSCHER (acting chairman)

101. **Engineering Drawing and Graphical Solutions.** I      **Three hours**  
 1. A study of basic topics in engineering drawing to provide facility in the transmission of ideas through accepted graphical means. Areas covered include orthographic projection, freehand sketching, pictorial representation, auxiliary views, sections and conventions, basic dimensioning, and fasteners, culminating in the production of the working drawing.  
 2. A study of selected techniques in graphical mathematics and data presentation including graphical algebra and calculus, the determination of empirical equations from experimental data, functional scales, and basic nomography.
102. **Descriptive Geometry and Concept Design.**      **Three hours**  
 Not offered 1966-'67.  
 1. A study of basic graphical techniques for the solution of the spatial relationships involved in the solution of point, line, plane, and surface problems in three dimensions.  
 2. A study of and involvement in the engineering design process at the concept level through the medium of lectures and assigned design projects.

- 205. Principles of Engineering Materials. I** Three hours  
 An introductory course in the science of engineering materials. Engineering properties are correlated with internal structures — atomic, crystal, micro, macro — and service environments — mechanical, electrical, thermal, chemical, magnetic, and radiation. Prerequisite: Chemistry 104.
- 301. Statics. I** Three hours  
 Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Forces, components, vector algebra, moments, couples, friction, centroids, moments of inertia. Must be preceded or accompanied by Mathematics 211 and Physics 201 or 205.
- 304. Mechanics of Materials. II** 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, compounding of simple stresses, introduction to theories of failure and energy methods. Prerequisite: Engineering 301.
- 306. Dynamics. II** 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. Must be preceded or accompanied by Mathematics 212 and Physics 202 or 206.
- 309. Fluid Mechanics.** Not offered 1966-'67. Four hours  
 An introduction to the statics, dynamics, and thermodynamics of real and ideal fluids; laminar, turbulent, compressible, and incompressible flows; the Euler, Bernoulli, and continuity equations; dimensional analysis and similitude applied to a series of subjects. Lectures and laboratory. Prerequisites: Mathematics 212 and Physics 206.
- 310. Engineering Thermodynamics.** Not offered 1966-'67. Four hours  
 An introduction to concepts of work and heat, first law, second law, properties of a pure substance, irreversibility and availability, thermodynamic relations, and mixtures and solutions, with applications to heat-power cycles. Prerequisites: Mathematics 212 and Physics 206.
- 312. Principles of Analog Computation. II** One hour  
 An introduction to the theory and techniques of analog computation, including computer solutions for representative systems of linear and non-linear differential equations. Computer solutions contrasted with mathematical solutions where applicable. Lecture and laboratory. Prerequisite: Mathematics 212 or permission of the instructor.

### English

**TIMMERMAN** (chairman), **HARPER**, **HOLKEBOER**, **KUIPER**, **P. OPPEWAL**, **POTT**, **SLINGERLAND**, **TEN HARMSEL**, **TIEMERSMA**, **VAN DER WEELE**, **VAN HOUTEN**, **VAN NUIS**, **VAN'T HUL**, **WALTERS**, **WIERSMA**, **ZYLSTRA**

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

Sophomores who plan to take only 12 hours of English should take the comprehensive course in English Literature (English 203-204). Sophomores who plan to take more than 12 hours of English or who plan to become English minors are strongly urged to take English 203-204. Sophomores who plan to become English majors should *not* take English 203-204 but should elect American Literature (English 201-202) 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.

An English major program (24 hours) ordinarily consists of the following courses: English 103-104, 201-202, 309, 307 or 308, 316, 302 or 310. Additional courses may be taken in terms of the student's preferences and schedule.

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.

103. Freshman English. I and II Three hours  
Grammar, rhetoric, and composition. Textbooks and periodic themes.
104. Freshman English. I and II Three hours  
Continuation of 103.
103. Honors Freshman English. I Three hours  
An enriched Freshman English program including the essential formal disciplines of 103 and 104. Wide and intensive reading in the various literary types. Enrollment in the course is voluntary. Selection to be made from interested students upon distinguished achievement in the Departmental tests to be announced during registration.
104. Honors Freshman English. II Three hours  
Continuation of 103.
201. American Literature. I 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. II Three hours  
Continuation of 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  
Continuation of 203. The course proceeds from Johnson through Eliot.
205. Advanced Composition. II Three hours  
A practical course in advanced expository writing. Intensive reading in the formal essay and biography, with much systematic writing in such types of composition as description, the formal and informal essay, the informative and feature article, the editorial, the book review, and the like. Open by permission only to qualified students (B average in Freshman English).
301. Literature of the Romantic Period. I 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. I 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. I and II** 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. II** 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. **Creative Writing I** Three hours  
 A practical course in the writing of imaginative prose and poetry, major emphasis to fall on the short story and lyric poem. Class sessions devoted to an analysis of the techniques employed by contemporary writers and to an analysis of student writing. A minimum of twelve assignments required. Prerequisite: publication in a periodical other than a school newspaper. Published piece will be evaluated at time of registration.
307. **Literature of the Seventeenth Century. I** 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. **Milton. II** Three hours  
 An intensive study of the works of John Milton. Textbook, collateral reading, and reports.
309. **Shakespeare. I and II** Three hours  
 An intensive study of the sonnets and about fifteen plays of Shakespeare. Textbook and reports.
310. **Nineteenth Century English Prose. II** 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. I and II** 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. I** Three hours  
 A study of the General Prologue, representative Canterbury Tales, and Troilus and Criseyde. Emphasis will fall upon Chaucer's literary genius and the reflection in his work of the major cultural phenomena of his time. Collateral reading.
315. **The Principles of Literary Criticism. II** 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. II** 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.
319. **Non-Shakespearean Drama of the Renaissance. II** Three hours  
 This course will examine, in turn, the medieval background of English drama, the developments in drama during the Tudor Age, and the works of later Elizabethan and Jacobean dramatists.

329. **American Classis.** Not offered 1966-'67. **Three hours**  
 A critical study of American masterpieces as the literary embodiment of the evolving minds, ways, and values of the American cultural process. Emphasis upon selected writings of Edwards, Franklin, Emerson, Hawthorne, Melville, Whitman, Twain, H. James, Adams, Frost, Eliot, Hemingway, Faulkner.  
 Open only to non-English majors. May not be substituted for 203-204. May not be taken in addition to 201 and 202.
334. **The Development of the English Language.** II **Three hours**  
 An analysis of the sound, grammatical, and vocabulary changes that have occurred throughout the history of the English language based on an intensive study of the Oxford English Dictionary and selected passages from Chaucer, Shakespeare, and various English translations of the Bible.
380. **Advanced English Studies.** II **One hour**  
 Intensive study of selected texts in English literature, with readings in articles appearing in professional journals, leading to the preparation and presentation of a detailed paper. Open, by permission of the current director, to seniors majoring in English, and recommended for all those who intend to do graduate work in English. Conducted by various members of the department.

## French

A. OTTEN, HESS, HOLKEBOER, \*WESTRA

Students who wish to major in French should consult Professor A. Otten before the end of the sophomore year to determine a satisfactory sequence of courses as well as related course work in other departments. An independently-sustained reading program, based on the departmental reading list, will also be arranged at that time.

The facilities and materials of the language laboratory are available to all students of French.

## LANGUAGE

101. **Elementary French.** I **Four hours**  
 An introductory course in the comprehension and use of spoken and written French.
102. **Elementary French.** II **Four hours**  
 Continuation of French 101. French 101 and 102 should not be counted toward a departmentally-approved French major.
201. **Intermediate French.** I **Three hours**  
 Further training in spoken and written French, study of the structure of the language, and extensive reading of important literary texts. Special sections are reserved for students whose previous language training has not been at Calvin College. Conducted almost exclusively in French.
202. **Intermediate French.** II **Three hours**  
 Continuation of French 201. This course serves as prerequisite to further work in the department.
321. **Advanced French.** I **Three hours**  
 A course for the advanced student preparing for graduate study or for the teaching of French and for the student who wishes to improve his facility in the language to an exceptional degree. A wide variety of exercises, compositions and drills is designed to develop in the student a high degree of competence in speaking, reading and, above all, writing idiomatic French. Conducted in French. Offered the first semester of alternate years.

\*On leave of absence 1966-'67.

322. **Advanced French. II** **Three hours**  
Continuation of French 321, with training in the writing of the *dissertation* and the *analyse littéraire*. Offered the second semester of alternate years.

#### LITERATURE

207. **Introduction to French Literature. I** **Three hours**  
An introduction to the major writers and movements in the history of French literature from the Middle Ages through the eighteenth century. Extensive reading, written reports, lectures, *explications de texte*. Conducted in French.
208. **Introduction to French Literature. II** **Three hours**  
Continuation of French 207. Study of the nineteenth and twentieth centuries. French 207 and 208 are designed to give the student an acquaintance with a large number of masterpieces of French literature as well as the basic knowledge and historical framework necessary for advanced literary study.
311. **French Drama. Not offered 1966-'67.** **Three hours**  
An intensive study of dramatic literature from the Middle Ages to the present day, with special emphasis on classical and contemporary drama. Conducted in French. Offered the first semester of alternate years.
312. **The French Novel. Not offered 1966-'67.** **Three hours**  
An intensive study of fiction from the Middle Ages to the present day, with special emphasis on the nineteenth and twentieth centuries. Conducted in French. Offered the second semester of alternate years.
313. **French Poetry. I.** **Three hours**  
A study of the history and nature of French poetry by means of extensive reading and intensive examination of major poets, with special attention to the themes, forms and techniques of poets of the modern period, beginning with Baudelaire. Conducted in French. Offered the first semester of alternate years.
314. **French Prose. II** **Three hours**  
A study of major writers expressing French thought, spirit and sensibility in non-fiction from Montaigne to Sartre. Special attention is paid to Calvin, Pascal, *les philosophes* and the existentialists. Conducted in French. Offered the second semester of alternate years.
371. **Literary Doctrines and Problems. Not offered 1966-'67.** **Three hours**  
An advanced course devoted largely to literary theory, using as its point of departure a selection of such significant documents in the history of French literature as Du Bellay's *Défense et illustration de la langue française*, the various statements relating to the *Querelle des anciens et des modernes*, Hugo's *Préface de Cromwell*, the transcript of Flaubert's trial, and others. This course includes an examination of the situations and writings which elicited these documents. Normally this course should be taken after completion of the genre courses. Conducted in French. Offered the first semester of alternate years.
372. **French Civilization. Not offered 1966-'67.** **Three hours**  
A study of examples of non-literary artistic expressions of the French mind in painting, architecture and music, and of French religious, political, and social institutions. Designed to enhance the student's knowledge of French culture and to enrich his literary studies, this course is a complement to, rather than a substitute for, literary studies. Conducted in French. Offered the second semester of alternate years.

#### Geography

103. **Principles of Geography. I and II** **Three hours**  
A study of the fundamental principles underlying the relationship between man and his environment.

## German

FRIDSMA (chairman), BOERSMA, BRASHLER, W. BRATT, HEGEWALD,  
KRAJENBRINK, \*KREUZER

Freshmen who have had three years of German in high school should take German 202 immediately upon enrollment in the fall.

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|------|---|-------------|
| 101. | Elementary German. I<br>A beginners' course stressing both written and spoken German and aiming at familiarity with basic grammatical patterns.   | Four hours  |
| 102. | Elementary German. II<br>Continuation of 101.   | Four hours  |
| 201. | Intermediate German. I<br>Selected prose readings. Grammar review, composition, and collateral reading reports. Prerequisites: 101 and 102.   | Three hours |
| 202. | Intermediate German. II<br>More advanced readings in prose and/or poetry. Grammar review and composition continued. Collateral reading reports. Prerequisite: 201, or three units of high school German.  | Three hours |
| 205. | Advanced Oral and Written Composition. I<br>Prerequisite: 202.  | Two hours   |
| 207. | Reading in Major German Authors. I<br>Basic introduction to German literature. Selected readings in major German authors from 1750 on. Assigned readings and papers. Prerequisites: German 201-202.   | Three hours |
| 208. | Readings in Major German Authors. II<br>Continuation of 207.  | Three hours |
| 301. | Classicism. I<br>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.   | Three hours |
| 302. | Classicism. II<br>Continuation of 301.  | Three hours |
| 303. | Romanticism. I<br>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.   | Three hours |
| 304. | Realism. II<br>Reading 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.   | Three hours |
| 305. | Early Nineteenth Century Drama. Not offered 1966-'67.<br>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.   | Three hours |
| 306. | Later Nineteenth Century Drama. Not offered 1966-'67.<br>A study of Hebbel and Hauptmann and their times. Assigned reading and reports. Prerequisites: 202 and preferably 305.  | Three hours |
| 307. | Studies in Modern German Literature. Not offered 1966-'67.<br>A comprehensive study of the major writers and movements from 1890 to the present. Among the figures considered are Mann, Rilke, Kafka, Hesse, and Brecht. Assigned readings and papers. Prerequisites: German 207-208 or permission of instructor. | Three hours |

\*On leave of absence 1966-'67.

308. **Studies in Modern German Literature.** Not offered 1966-'67. **Three hours**  
Continuation of 307.
309. **Goethe's Faust.** Not offered 1966-'67. **Three hours**  
Reading and interpretation of the complete text of Part I and selections from Part II. Some attention will be paid to the history of the Faust legend and to the genesis and development of Goethe's drama.

### Greek

RADIUS (chairman), \*HARRIS, R. OTTEN, WEVERS

101. **Beginners' Greek. I** **Four hours**  
Text: Crosby and Schaeffer, *An Introduction to Greek.*
102. **Beginners' Greek. II** **Four hours**  
Continuation of 101. Completion of the text and the reading of the first book of Xenophon *Anabasis*, or its equivalent.
201. **Intermediate Greek. I** **Three hours**  
Reading in Attic prose, particularly Plato's *Apology* and earlier *Dialogues.*
202. **Intermediate Greek. II** **Three hours**  
An introduction to Greek poetic forms through readings in the Homeric epic and Attic drama.
311. **Greek History. I** **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 Classics majors; others must secure permission.
313. **New Testament Greek. I** **Three hours**  
The Gospel according to St. Mark is read with some notice of the parallel passages in the other Gospels. 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.
314. **New Testament Greek. II** **Three hours**  
A study is made of some of the Pauline Epistles. Prerequisite: 313.
319. **Plato's Republic.** Not offered 1966-'67. **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.** Not offered 1966-'67. **Three hours**  
Continuation of 319, which is also a prerequisite.

### History

IPPEL (chairman), R. BOLT, BRINKS, DE BEER, DE BIE, JELLEMA, MARSDEN, MILLER, R. OTTEN, RADIUS, RIENSTRA, STRIKWERDA, SWIERENGA, VANDER MOLEN, VAN KLEY, WEVERS

History majors in either the general A.B. or the B.A. in Ed. programs are required to complete a minimum of 30 hours of history including History 101-102, American History 215-216, and the Senior Seminar History 391, plus at least two of the following year sequences: Greek and Roman History 311-312; Medieval History 307-308; Early Modern European History 309-310; Modern and Contemporary History 205-206; English History 203-204 or 313-314; and Russian and Eastern European History 211-212. Economics 201-202 and Political Science 203-204 are recommended, and suggested minors are economics, political science,

\*On leave of absence 1966-'67.

NIST 211  
 Greek major or minor

English, foreign language, or philosophy. If possible at least two years of a modern foreign language or its equivalent should be completed except for students with a strong interest in ancient history, in which case two years of Greek or Latin is recommended.

Majors working toward a secondary State Provisional Teacher's Certificate are advised to follow the general A.B. program while meeting the minimum certification requirements of 20 hours of professional education courses, including psychology. Such courses should be so arranged as to avoid splitting year units in subject matter fields. Any student expecting to teach a second field is advised to complete at least 18 hours in that subject in order to meet the conditions of the North Central Association.

A minor in history should include History 101-102 and American History 215-216. A minimum of 18 hours should be completed by any student expecting to teach history.

A student who wishes to be identified as a departmentally-approved major should consult the chairman of the department at the close of his sophomore year. No student with a general average in history below B- will be recommended for advanced training.

History 101 and 102 are required of every Freshman who expects to earn the Bachelor of Arts degree.

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|------|--|-------------|
| 101. | Growth of Western Civilization. I<br>Surveys of Egyptian, Mesopotamian, Greek, and Roman History. The founding and spread of Christianity. The barbarian invasions, feudalism, the Church, the Empire, the Renaissance, and the Reformation. (Juniors and Seniors will be required to do additional work to receive full credit.)                                  | Three hours |
| 102. | Growth of Western Civilization. II<br>Continuation of 101. Outlines the rise of the great powers, the several revolutions of modern history, the Napoleonic period, and the major political phenomena of the nineteenth and the twentieth centuries. (Juniors and Seniors will be required to do additional work to receive full credit.)                          | Three hours |
| 203. | English History. I<br>The development of Britain from Roman times, through the Anglo-Saxon period, Norman England, the Middle Ages, with emphasis on the Tudor and Stuart eras.  | Three hours |
| 204. | Great Britain Since 1714. II<br>The development of Britain in the eighteenth, nineteenth, and twentieth centuries with emphasis upon the growth of democracy and the establishment of the British Empire.  | Three hours |
| 205. | Modern and Contemporary Europe Since 1815. I<br>Western Europe from the Congress of Vienna to about the end of the century. Outlines political and economic history and examines nationalism, liberalism, socialism, Darwinism, and industrialism. Not open to Freshmen.   | Three hours |
| 206. | Modern and Contemporary Europe Since 1815. II<br>Continuation of 205. Western Europe from about 1900 to the present, with particular emphasis on Russia and the modern Near Eastern Question. The problems of the new economic and political balance of power, the conflict of ideologies, cultural relativism, the new age of conservatism. Not open to Freshmen. | Three hours |
| 210. | Canadian History. II<br>A cursive tracing of the founding of New France. More intensively, an outline of the constitutional and political history of the nineteenth and twentieth centuries. Canada's role in world affairs and her challenging internal problems.   | Four hours  |
| 211. | Russian and Eastern European History. I<br>The study of Russian and East European history from the Byzantine and Slavic origins up to the Congress of Vienna. Assigned readings and reports.   | Three hours |

212. **Russian and Eastern European History. II** Three hours  
The study of Russian and East European history from the Congress of Vienna to the near present. The course will be concentrated upon the causes, nature, and consequences of the Russian Revolution. Assigned readings and reports.
215. **American History. I** Three hours  
European backgrounds, colonial development, the Revolution, the onset of the national period, Jacksonianism, sectionalism, and the Civil War.
216. **American History. II** Three hours  
Continuation of 215. The aftermath of the Civil War, the economic phenomena and political history of the late nineteenth century, the Roosevelt and the Wilson eras, the New Deal, and the Second World War.
217. **Introduction to East Asian Civilization. Not offered 1966-'67. Three hours**  
An introduction to the history of East Asian civilizations from the earliest times to the present day. Primary emphasis will be placed on the civilizations of China and Japan, and special attention will be given to the contacts between East Asia and the West.
218. **Introduction to East Asian Civilization. Not offered 1966-'67. Three hours**  
Continuation of 217.
303. **American Diplomatic History. Not offered 1966-'67. Three hours**  
The diplomatic relations of the United States since 1789, with emphasis upon colonial background, problems of a New Nation, War of 1812, Monroe Doctrine, and expansionist problems prior to the Civil War.
304. **American Diplomatic History. Not offered 1966-'67. Three hours**  
A continuation of 303 with particular emphasis upon the changing role of the United States in world affairs as shown in the Spanish American War, relations with Latin America, and participation in two World Wars.
307. **Medieval History. I** Three hours  
The study of European history from the establishment of Christianity as a civilizing force to the twelfth century rise of cities. Three or four interpretive papers are to be written. For Juniors and Seniors.
308. **Medieval History. II** Three hours  
Continuation of 307, from the Renaissance of the twelfth century to the Italian Renaissance. Intellectual and religious developments are emphasized. The same requirements as for 307.
309. **Modern Europe to 1648. I** Three hours  
A history of Europe between 1500 and 1648, with primary emphasis on the various phases of the Reformation, the Counter-Reformation, and the wars of religion.
310. **Modern Europe: 1648 to 1815. II** Three hours  
The age of Louis XIV, the Age of Reason, the Enlightenment. Includes the intellectual, religious, and cultural movements, as well as the colonial conflicts. Ends with the French Revolution.
311. **Greek History. I** Three hours  
The political, social, and cultural history of the Greek city-states up to the time of the Roman conquest. Some attention is given also to the history of the Near and Middle East. Open only to Juniors and Seniors who are pre-law, pre-seminary, history or classics majors; others must secure permission.
312. **Roman History. II** 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 their 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.** Not offered 1966-'67. 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.
314. **English Constitutional History.** Not offered 1966-'67. Three hours  
Continuation of 313.
315. **American Constitutional History. I** 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.
316. **American Constitutional History. II** Three hours  
A continuation of History 315.
325. **Dutch History. I** Three hours  
An introduction to the history of the Netherlands from medieval times until mid-18th century, with emphasis on the Burgundian period, the Reformation, and the Dutch "Golden Age."
326. **Dutch History. II** Three hours  
A continuation of 325. Emphasis on the era of the French Revolution, the revival of Calvinism in the later nineteenth century, and the position of the Netherlands in mid-twentieth century Europe.
327. **Social and Intellectual History of the United States. I** Three hours  
A study of influential ideas, systems of thought, religious values, and individuals prominent in the development of American culture and society from pre-Revolutionary times to the present.
328. **Social and Intellectual History of the United States. II** Three hours  
A continuation of History 327.
391. **Seminar in History. I and II** Three hours  
A course taught by the staff in the history of history, the interpretation of history, historical bibliography, and the writing of history. Required of all majors as defined in the departmental requirements, during the senior year, and open to others by permission.

## Latin

RADIUS (chairman), \*HARRIS, R. OTTEN, VAN VUGT, WEVERS

Pre-Seminarrians — (see page 63)

### Others —

Those who have had one year in high school take 101.  
Those who have had two years in high school take 105.  
Those who have had three years in high school take 202.  
Those who have had 101-2 in college take 201.

101. **Elementary Latin. I** Four hours  
For students who have had only one unit of high-school Latin or who have had no Latin. Emphasis is placed on the essentials of grammar and a basic vocabulary with constant comparison to English. *Sententiae* from the principal Latin authors will be read.

\*On leave of absence 1966-'67.

102. **Elementary Latin. II** Four hours  
 A continuation of 101. Emphasis is placed on grammar and the early reading of longer selections of authentic Latin dealing with Roman history and culture. Prerequisite: 101 or its equivalent.
105. **Intermediate Latin. I** Three hours  
 For students who enter with two units of high-school Latin. A thorough review of the essentials of grammar will accompany the reading of selected Latin prose.
106. **Intermediate Latin. II** Three hours  
 A continuation of 105. An introductory reading of Vergil's *Aeneid* in English translation leading to a study of selected books and passages in Latin.
201. **Latin Readings. I** Three hours  
 For students who have had one year of Latin in college. Open only by special permission to those who enter with two units of high-school Latin. Selected authors will be read with some attention to review of syntax.
202. **Vergil's Aeneid. I and II** Three hours  
 For those who have had 201 or three units of high-school Latin. A study of the Latin epic. The whole of the *Aeneid* will be read in English translation. Selected books will be read in Latin with a study of the prosody of Vergil.
205. **Readings in Latin Literature. I** Three hours  
 Intensive reading in the major writers of prose from the Late Republic to the Early Empire. Collateral reading in the literary history of the period. Prerequisite: 105 or 202.
206. **Readings in Latin Literature. II** Three hours  
 Intensive reading in the major writers of poetry from the Late Republic to the Early Empire. Collateral readings in the literary history of the period. Prerequisite: 106 or 202.
208. **Readings in the Church Fathers. II** Three hours  
 Reading of selected portions of Lactantius' *Divinae Institutiones* and other patristic literature. Prerequisite: 105 or 201.
301. **Lucretius and Cicero. Not offered 1966-'67.** Three hours  
 Selections from Lucretius and Cicero, designed to portray some of the major issues posed by classical thought. Collateral reading and reports. Alternates with Latin 303. Prerequisite 205 or 206.
302. **Seneca and Augustine. Not offered 1966-'67.** Three hours  
 Readings from Seneca and Augustine, selected to complete the survey begun in 301 and to give the first significant Christian critique of classical thought as delineated in the *De Civitate Dei* of Augustine. Collateral reading and reports. Alternates with 304. Prerequisite 205 or 206.
303. **Latin Poetry. I** Three hours  
 A study of Latin poetry from Catullus through the Elegiac Poets, with some attention to early Christian and Medieval Poetry. Collateral reading and reports. Alternates with 301. Prerequisite 205 or 206.
304. **Roman Historical Thought. II** Three hours  
 Representative selections from such historians as Sallust, Livy, Tacitus, and Suetonius. Collateral reading and reports. Alternates with 302. Prerequisite 205 or 206.
312. **Roman History. II** 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.

327. **Latin Grammar and Writing.** Not offered 1966-'67. **Three hours**  
 A thorough review of Latin grammar and syntax will be made, and attention will be given to Latin writing. There is also included an exposition of the pedagogy of presenting Latin grammar. For this reason the course should be postponed to the senior year of students who plan to teach Latin. Prerequisite: consult instructor.

## Mathematics

SINKE (chairman), BOONSTRA, NYHOFF, TIMMER, TULS, VELDKAMP, ZWIER

Students interested in a major program in mathematics should complete four years of mathematics in high school, including the equivalent of Mathematics 100. Students having this background in mathematics should enroll in Mathematics 111, which is the first course in the major program.

A student who desires to major in mathematics must receive departmental approval. He must file an application for such approval with the chairman of the department not later than the beginning of the junior year. Minimum requirements for a major in mathematics include: Mathematics 111, 112, 211, and 212, plus two additional courses numbered 300 or above. All major programs must be approved by the department. Students planning to pursue graduate study in mathematics are urged to acquire a reading knowledge of French and German.

Prospective teachers of high school mathematics must complete a major program of 30 semester hours, including Mathematics 111, 112, 211, 212, 309, 320, plus two additional courses numbered 300 or above.

Prospective secondary teachers who minor in mathematics must take Mathematics 111, 112, 211, or their equivalent, plus Mathematics 309 and 320.

100. **Algebra and Trigonometry. I and II** **Four hours**  
 Review of elementary algebra, topics in college algebra, including quadratic equations, inequalities, theory of equations, binomial theorem and mathematical induction, progressions, determinants. Introduction to trigonometry, the trigonometric functions and their properties. Prerequisite: Two years of high school mathematics.
109. **Elements of Modern Mathematics. I and II** **Four hours**  
 Set algebra, cardinal numbers, the arithmetic of counting numbers, logic, axiomatic systems, construction of the rational and real number systems, groups and fields, relations and functions, polynomials. Prerequisite: One year of high school algebra and one year of geometry. Open only to freshmen and not open to mathematics majors.
111. **Analytic Geometry and Calculus. I** **Four hours**  
 The real number system, straight lines, circles, functions, limits, derivatives, differentiation of algebraic functions, applications. Prerequisite: 100 or its equivalent.
112. **Calculus and Analytic Geometry. II** **Four hours**  
 Conic sections, definite integrals, transcendental functions, formal integration, applications. Prerequisite: 111.
205. **Mathematics for Business Analysis. I** **Three hours**  
 Functions and graphs, equations and inequalities, vectors and matrices, progressions, derivatives and integrals of simple functions, probability. Emphasis falls on business applications such as optimization, linear programming, interest and annuities. Prerequisite: Two years of high school mathematics.
206. **Elementary Statistics. II** **Three hours**  
 Description of sample data, probability, probability density functions including binomial and normal distributions, sampling, estimation, hypothesis tests, correlation and regression. Prerequisite: 205 or its equivalent.

- 211. Calculus and Analytic Geometry. I** **Five hours**  
Advanced formal integration, applications, properties of functions, parametric equations, polar coordinates, infinite series, solid analytic geometry, vectors. Prerequisite: 112.
- 212. Calculus and Differential Equations. I and II** **Five hours**  
Partial differentiation, multiple integrals, differential equations of first order and first degree, linear differential equations, operators, variation of parameters, equations of higher degree, power series solutions. Prerequisite: 211.
- 308. Mathematical Statistics. I** **Three hours**  
Probability, probability density functions, binomial, Poisson, and normal distributions, central limit theorem, limiting distributions, sample statistics, hypothesis tests, estimators. Prerequisites: 212 or equivalent.
- 309. Abstract Algebra. I** **Three hours**  
Sets, mappings, relations, operations, the real number system, integral domains, fields, polynomial domains, the complex number field, groups, rings. Prerequisite: 211 or its equivalent.
- 310. Linear Algebra. II** **Three hours**  
Elements of finite dimensional vector spaces, determinants, linear transformations, matrices, and canonical forms. Prerequisite: 211 or its equivalent.
- 311. Advanced Analysis. I** **Three hours**  
Complex numbers, complex functions, integration and the Cauchy integral formula, power series, residues and poles, conformal mapping. Prerequisite: 212.
- 312. Advanced Analysis. II** **Three hours**  
Laplace transform, Fourier series, Fourier integrals, orthogonal functions, Sturm-Liouville theory, Bessel functions and Legendre polynomials. Prerequisite: 311.
- 320. Foundations of Geometry. II** **Three hours**  
Consideration of Euclidean geometry as an axiomatic system. Introduction to non-Euclidean geometry, the Poincare model. Prerequisite: 112 or its equivalent.
- 321. Projective Geometry. II** **Three hours**  
Construction of projective space from Euclidean space, theorems of Desargues and Pappus, harmonic sequences and projective transformations, analytic projective geometry and conic sections. Affine, similarity, Euclidean, and non-Euclidean geometries from groups of transformations. Prerequisite: 309, 310.
- 331. General Topology. I** **Three hours**  
Elementary set theory, topological spaces, separation properties and connectivity, continuous mappings, homeomorphisms, product and quotient spaces, invariants under continuous mappings, compactness, metric spaces and completeness. Prerequisite: 211.

### Music

HAMERSMA (chairman), DE JONGE, GEERDES, HUISMAN, KNOL,  
RUS, SWETS, WORST

For major and minor programs in music, consult pages 72-73.

### THEORY

- 103. Theory and Harmony. I** **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. II Three hours  
Continuation of 103.
203. Theory and Harmony, Advanced. I Three hours  
Continuation of 103-104. Use of all diatonic triads and seventh chords, altered chords, color chords. Problems of composition involving smaller forms. Continuation of sight-singing and dictation. One hour laboratory period per week required.
204. Theory and Harmony, Advanced. II Three hours  
Continuation of 203.
303. Counterpoint. Not offered 1966-'67. Three hours  
The principles of contrapuntal composition, including a study of species counterpoint and a detailed analysis of Palestrinian counterpoint.
304. Counterpoint. Not offered 1966-'67. Three hours  
Continuation of 303.
315. Arranging. I 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: 103-104.
316. Arranging. II Three hours  
Continuation of 315.

#### HISTORY AND LITERATURE

211. Introduction to Music Literature. I 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. II Three hours  
Continuation of 211.
219. Church Music. Not offered 1966-'67. Two hours  
A 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 plain song, the Lutheran chorale and the Genevan-Dutch psalm tunes.
220. Church Music. Not offered 1966-'67. Two hours  
A 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: 219.
305. History of Music. I 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 textbook work.
306. History of Music. II Three hours  
Continuation of 305.

307. **Form. I** Two hours  
 A study of the development of musical forms, beginning with the early plain song, masses, motets, madrigals, and continuing through early orchestral and instrumental compositions. The relationship of musical form to problems of tonality, rhythm, unity and variety.
308. **Form. II** Two hours  
 Continuation of 307.
311. **Symphonic Literature.** Not offered 1966-'67. Three hours  
 A study of the development of the Symphony from the early sonatas, suites, and overtures, to the modern symphony.
312. **Symphonic Literature.** Not offered 1966-'67. Three hours  
 Continuation of 311. The second semester will be devoted primarily to the symphonic poem.
326. **Chamber Music.** Not offered 1966-'67. Three hours  
 A general course designed to provide the historical and musical background necessary for perceptive listening to music for small ensembles. The Cayvan Collection of recordings and scores will be used to give the student an insight into music written for trios, quartets, and quintets of string or wind instruments. The course is designed for the general college student who wishes to acquaint himself with this medium of musical expression.

#### MUSIC EDUCATION

221. **Elements of Music. I and II** Three 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. Not open to students who have taken Music 103.
222. **Elementary School Music. II** Three hours  
 A course designed to prepare the regular grade teacher for teaching music in the grades. Includes the study of child voice problems, rote-song teaching, conducting, music-reading, and an evaluation of basic music texts and supplementary music materials. Collateral reading. Prerequisite: Music 221 or its equivalent. Not open to students who have taken Music 331.
313. **Conducting. I** One hour  
 A beginning course in basic, general conducting, working with hymns, folksongs, and choral literature. One hour of class and one hour of conducting lab per week is required. Prerequisite 103-104.
314. **Conducting. II** One hour  
 A continuation of 313, with students studying in their area of special interest in either instrumental or choral conducting. One hour of class and one hour of conducting lab per week is required. Prerequisite: 313.
331. **Advanced Elementary School Music. I** Three hours  
 A course designed to prepare the vocal music education major for teaching, organizing and administering all aspects of vocal music in the elementary grades. Must not be taken later than junior year. Prerequisite: Music 103-104, or equivalent.
332. **Secondary School Vocal Music. II** Three hours  
 The study and evaluation of the aims, content, and procedures of a vocal music program for junior and senior high schools. Includes consideration of the changing voice, voice-testing and classification, general music class, and the principles underlying the organization and development of choral groups. Collateral reading. Must not be taken later than junior year. Prerequisite: Music 103-104 or equivalent.

**333. Organization and Administration of Instrumental Music**      **Three hours**  
Not offered 1966-67.

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.

Applied music concentrates are required to give the equivalent of one half recital in the sophomore or junior year, and a full recital in the senior year.

All applied music students and all music majors are required to attend repertory class and studio class each Thursday at 1:30 p.m. Studio classes for pianists and organists meet each Tuesday at 1:30 p.m. Attendance is necessary in order to receive credit in applied music.

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.

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**

109-110, 209-210, 309-310, 319-320 Organ	<b>One hour</b>
Individual lessons in organ. Fee: \$45 per semester. Practice fee: \$15 per semester.	
109c-110c, 209c-210c, 309c-310c, 319-320c Organ	<b>Two hours</b>
Individual lessons for the Music Major concentrating in organ. Fee: \$45 per semester. Practice fee: \$15 per semester.	
117-118, 217-218, 317-318, 327-328 Voice	<b>One hour</b>
Individual lessons in voice. Fee \$45 per semester.	
117c-118c, 217c-218c, 317c-318c, 327c-328c Voice	<b>Two hours</b>
Individual lessons for the Music Major concentrating in voice. Fee: \$45 per semester.	
141-142, 241-242, 341-342, 351-352 Piano	<b>One hour</b>
Individual lessons in piano. Fee: \$45 per semester.	
141c-142c, 241c-242c, 341c-342c, 351c-352c Piano	<b>Two hours</b>
Individual lessons for the Music Major concentrating in piano. Fee: \$45 per semester.	
161-162, 261-262, 361-362, 461-462 Strings	<b>One hour</b>
Individual lessons in violin, viola, violoncello or bass violin. Fee: \$45 per semester.	
161c-162c, 261c-262c, 361c-362c, 461c-462c Strings	<b>Two hours</b>
Individual lessons for the Music Major concentrating in violin, viola, violoncello, or bass violin. Fee: \$45 per semester.	

- 171-172, 271-272, 371-372, 471-472 **Woodwinds** One hour  
 Individual lessons in flute, oboe, clarinet, bassoon or saxophone. Fee: \$45 per semester.
- 171c-172c, 271c-272c, 371c-372c, 471c-472c **Woodwinds** Two hours  
 Individual lessons for the Music Major concentrating in flute, oboe, clarinet, bassoon or saxophone. Fee: \$45 per semester.
- 181-182, 281-282, 381-382, 481-482 **Brasses** One hour  
 Individual lessons in cornet, horn, baritone, trombone or bass horn. Fee: \$45 per semester.
- 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: \$45 per semester.
191. **Percussion** One hour  
 Individual lessons in snare drum, tympani and other percussion instruments. Fee: \$45 per semester.

#### Class Lessons

- 119-120. **Voice. I and II** One hour  
 Class lessons in voice for the music major concentrating in Instrumental Music Education.
- 163-164. **Strings. Not offered 1966-'67.** One hour  
 Class lessons in string instruments for the music major concentrating in Instrumental Music Education. Two class lessons per week.
- 173-174. **Woodwinds. Not offered 1966-'67.** One hour  
 Class lessons in woodwinds for the music major concentrating in Instrumental Music Education. Two class lessons per week.
- 183-184. **Brasses. I and II** One hour  
 Class lessons in brass instruments for the music major concentrating in Instrumental Music Education. Two class lessons per week.
193. **Percussion. Not offered 1966-'67.** One hour  
 Class lessons in percussion instruments for the music major concentrating in Instrumental Music Education. Two class lessons per week.
- 199-200. **Repertory Class. I and II** No credit  
 Students perform for their fellow students and for the music faculty to gain experience in public performance and to increase their knowledge of music literature. Attendance is required of all music majors and students of Applied Music. Others are invited.

#### Ensembles

- 101-102. **Oratorio Chorus. I and II** 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. I and II** One hour  
 Performs weekly as the Choir of the Back to God Hour over both the NBC and the Mutual Networks. 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.
- 113-114. **Varsity Band. I and II** No credit  
 Membership in this band is open to all students who have had some experience on a wind or percussion instrument. It is designed for students whose schedules or qualifications do not permit their immediate membership

in the concert band. The band plays for athletic events, Knollcrest campus activities, and other college functions. One rehearsal a week.

- 207-208. A Cappella Choir. I and II One hour  
 Representative works in the field of choral literature are studied and a limited number of selections are 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. I and II 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. Two rehearsals a week. One hour credit for each semester.
- 215-216. Orchestra. I and II 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. One two-hour full orchestra rehearsal per week, plus a one-hour string sectional rehearsal. One hour credit each semester.
- 227-228. Chamber Band. I and II No credit  
 This band offers instrumental music majors and other qualified players a chance to perform works particularly suited to a wind ensemble of about 40 members. Open to a select group of players from the Concert Band. One rehearsal per week.

### Philosophy

PRINS (chairman), DE VOS, ORLEBEKE, A. PLANTINGA, RUNNER, WOLTERSTORFF

Every candidate for the A.B. degree, General College, is required to take six hours of philosophy, exclusive of Logic. To fulfill this six-hour requirement, the student may choose any one of the following combinations, (a) being the usual sequence.

- (a) Perspectives 201 and 202.
- (b) Ethics and any one of the following: Perspectives 201, Perspectives 202, History of Philosophy: Ancient.
- (c) History of Philosophy: Ancient, followed by Perspectives 202.
- (d) Perspectives 201, followed by History of Philosophy: Modern.

#### Philosophy Majors:

Students who plan to major in philosophy should make application to the chairman of the department *not later than the beginning of the junior year*, and should thereafter arrange *each semester's* program in consultation with him.

Minimum total number of departmental hours required of a philosophy major is 27, distributed as follows:

Logic, History of Philosophy: Ancient, Medieval, Modern	12 hours
Kant	3 hours
Additional courses (advanced) in History of Philosophy, selection to be approved by departmental chairman	6 hours
Systematic disciplines, selection to be approved by departmental chairman	6 hours

Honors in Philosophy: All senior majors seeking honors should enroll in Philosophy 400 the second semester. The requirements for honors are:

- A. A senior thesis to be completed according to the following schedule:
  - Subject - October 15
  - Prospectus - November 15
  - Finished thesis - March 15

## Physical Education

STEEN (chairman), CZANKO, HONDERD, TIMMER, TUUK, VANDER BERG,  
VROON, D. ZUIDEMA, M. ZUIDEMA

### REQUIRED PHYSICAL EDUCATION

Both men and women students are required to take physical education for the four semesters of their freshman and sophomore years. The requirement must be completed by the end of the sophomore year. Juniors and Seniors who have not fulfilled their requirements will be assigned extra work upon enrolling in a course.

The Foundations Course (P.E. 140) must be taken in the first semester of the freshman year or the first semester a student is enrolled at Calvin. Following the guidelines established in the Foundations Course, students will enroll in activities in the Developmental, Recreational, and Advanced-Elective Courses.

Classes meet twice per week. Each course runs a full semester, but is divided into two units of activity. Both units must be completed to receive credit for the course.

There will be no excuses from the Physical Education Requirement. Students with medical problems will be placed in adaptive or remedial programs. Such students should enroll in the Foundations Course and confer with the Director of the Required Program as soon as possible after registration.

#### FOUNDATIONS PROGRAM ACTIVITIES - P.E. 140

##### DEVELOPMENTAL PROGRAM - P.E. 160

- 1st Unit: Combatives, Body Mechanics, Gymnastics, Motor Training, Movement Exploration, Weight, Training, Wrestling.
- 2nd Unit: Basketball, Field Hockey, Soccer, Touch Football, Track and Field, Wrestling.

##### RECREATIONAL PROGRAM - P.E. 180

- 1st Unit: Tennis, Golf, Volleyball, Softball.
- 2nd Unit: Badminton, Handball, Volleyball.

##### ADVANCED-ELECTIVE PROGRAM - P.E. 190

- 1st Unit: Wrestling I & II, Physical Conditioning, Gymnastics II, Badminton II, Handball II, Volleyball II, Paddleball.
- 2nd Unit: Archery, Field Hockey, Physical Conditioning, Soccer II, Tennis II, Golf II.

### PROFESSIONAL COURSES

Students desiring the degree of A.B. in Education may obtain a major or minor in this department. Biology 105 and 106 are required for the program.

Students must meet requirements for the Red Cross First Aid Certificate. This course will be offered annually.

104. **History and Principles of Physical Education.** I and II 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** Three hours  
I and II  
A study of the representative programs of physical education and evaluation of these programs. Not open to Freshmen.
204. **Community Recreation.** II 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. **Teaching of Basketball. I** **Two hours**  
A consideration of the fundamentals that make up the game of basketball; team conditioning, styles of play, and team strategy.
206. **Teaching of Spring Sports II** **Three hours**  
A study of the fundamentals of track, baseball and soccer. Methods of teaching and coaching of these sports are also discussed. Not open to Freshmen.
207. **Individual Competences — For Majors. I and II** **Four hours**  
See description of course under 208, immediately below.
208. **Individual Competences — For Minors. I and II** **Two hours**  
The course will offer opportunity to physical education majors or minors to develop the physical condition and skills necessary for the beginning teacher of physical education. By means of a program designed to meet the individual needs of such students, it will specifically require active participation and demonstrated competence in a wide variety of sport skills. The course will run for the entire period of a student's work in the major or minor program. Students should apply for admission to this course as soon as they have decided to enter the field of physical education. Credit will be given only for skills acquired after admission. Students majoring in physical education will be required to have 240 hours of participation; those minoring in physical education 120 hours.
209. **Teaching of Football. I** **Two hours**  
A study of the fundamentals and educational implications of the game of football. Includes the history, individual fundamentals, styles of play, special conditioning, and team strategy.
222. **Team Sports for Women. I** **Three hours**  
A study of fundamentals, history, and teaching methods of basketball, softball, soccer, and volleyball.
223. **Teaching of Physical Education in Elementary Schools. I** **Three hours**  
Theoretical and practical methods in the teaching of play activities to children of the elementary grades.
311. **Kinesiology. II** **Three hours**  
A study of human motion from a scientific standpoint. Particular attention is given to a mechanical analysis of musculoskeletal movements as applied to games, sports, and daily living. Prerequisites: Biology 105, 106.
315. **Measurement and Evaluation in Physical Education. I** **Three hours**  
Required of all Physical Education Minor students. A study of the evaluation techniques available in physical education. Emphasis on tests of physical fitness, body mechanics, growth, motor ability, sport skills, and knowledge of health practices and sport activities. Consideration is given to the organization of evaluation programs and the use of such programs. The course gives opportunity for practical experience in administering tests.
322. **Individual Sports for Women. II** **Three hours**  
A study of the background, fundamentals, and teaching methods of tennis, golf, badminton, archery and bowling.

## Physical Science

(See Physics)

### Physics

GRIFFIOEN (acting chairman), DE VRIES, EHLERS, KROMMINGA, VANDER LUGT

Students planning to major in physics should begin the Mathematics sequence 111, 112, 211, 212 in the first semester of their freshman year. Four semesters of algebra, two semesters of geometry, and one semester of trigonometry should be completed in high school. Those students who entered college in September 1965

should take Physics 205 and 206 in their sophomore year. Those who entered in September 1966 should take Physics 126 in the second semester of their freshman year and Physics 225 and 226 in their sophomore year. A student who plans to do graduate work in physics should also complete all of the 300-level physics courses and Mathematics 311-312. A reading knowledge of two modern foreign languages is desirable for those planning to enter graduate school.

**110. Physical Science. I and II** **Four hours**

This course attempts to evaluate primarily the basic assumptions used in the study of nature, the historical development of several theories and laws, and the results of modern scientific investigations in the fields of Physics and Chemistry. Emphasis is placed on the interrelation of these fields rather than on a study of each by itself. The student may elect to take Chemistry 103 or Physics 201 in place of this course. Prerequisite: Mathematics 109 or its equivalent. This course is taught by the staffs of the Chemistry and Physics Departments. It is not open to physics majors or minors.

**110L. Physical Science Laboratory. I and II** **One hour**

This course is designed to give the student laboratory experience in the areas of physical science covered in Physics 110 (Physical Science) and must be taken concurrently with Physics 110 (Physical Science). It is designed for elementary education students as a means of preparing them for their own teaching of a science course in the elementary grades. This course is taught by the staffs of the Chemistry and Physics Departments.

**126. Introductory Physics. II** **Four hours**

This course is the first course of a three-semester sequence (126, 225, 226) for students of science and engineering. This sequence gives an introduction to the major fields of physics: mechanics, heat, wave motion, electricity and magnetism, atomic and nuclear physics. Prerequisite: Mathematics 111.

**201. General Physics. I** **Four hours**

This course is designed for those who do not intend to do further work in Physics. Topics will include classical physics (mechanics, sound, heat, electricity and magnetism, and light) as well as descriptive material in modern physics (relativity, quantum theory, and particle physics). Three lectures and one laboratory period per week. Prerequisite: Plane trigonometry.

**202. General Physics. II** **Four hours**

Continuation of 201 which is a prerequisite.

**205. Introductory Physics. I** **Five hours**

A course for students of science and engineering. An introduction to the the major fields of physics: mechanics, heat, wave motion, electricity and magnetism, atomic and nuclear physics. Calculus will be used. Three lectures and one four-hour problem session laboratory period per week. Prerequisite: Mathematics 112. Not to be offered in 1967-'68.

**206. Introductory Physics. II** **Five hours**

Continuation of 205. Prerequisites: Physics 205 and Mathematics 211. Not to be offered in 1967-'68.

**225. Introductory Physics. Not offered 1966-'67.** **Four hours**

Continuation of Physics 126. Prerequisites: Physics 126 and Mathematics 112. To be offered 1967-'68.

**226. Introductory Physics. Not offered 1966-'67.** **Four hours**

Continuation of Physics 225. Prerequisites: Physics 225 and Mathematics 211. To be offered 1967-'68.

**NOTE: Prerequisites for the following courses are Physics 206 (or 226) and Mathematics 212.**

- 301. Mechanics. I** **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.
- 302. Mechanics. II** **Three hours**  
 Continuation of 301 which is prerequisite.
- 303. Modern Physics. I** **Three hours**  
 The theories of special relativity and wave mechanics, with applications to atomic and molecular structure and spectroscopy, X-rays, statistical mechanics, solid state physics, and nuclear physics.
- 304. Modern Physics. II** **Three hours**  
 Continuation of 303 which is a prerequisite.
- 305. Thermodynamics. Not offered 1966-'67.** **Three hours**  
 The principles of Thermodynamics with limited application to the kinetic theory of gases, chemical and electromagnetic systems.
- 318. Electronics. I** **Two hours**  
 This course provides an introduction to a.c. circuit theory and to the basic electronic circuits commonly used in physics research. Two three-hour laboratory periods per week.
- 319. Modern Physics Laboratory. I and II** **Two hours**  
 An introduction to the basic laboratory techniques in atomic and nuclear physics and a study of some of the more important experiments on which modern physical theory is based. One four-hour lecture-laboratory period per week. Prerequisite: Physics 318 or the permission of the instructor.
- 320. Physics Research. II** **Two hours**  
 Library and laboratory research on an assigned problem. Open only to approved Seniors majoring in physics.
- 341. Electromagnetic Fields and Waves. I** **Four hours**  
 A vector treatment of the basic experimental laws of Coulomb, Ampere and Faraday; the Poisson and Laplace equations and their solutions; the use of the vector potential; energy consideration in the fields; Maxwell's equations and their application; the phenomena of interference, diffraction and polarization. Three lectures and one problem session per week.
- 342. Electromagnetic Fields and Waves. II** **Four hours**  
 A continuation of Physics 341, which is a prerequisite.

### Political Science

IPPEL (chairman), DE BORST, WESTRA

A political science major requires a minimum of 24 hours. These must include particularly courses 203-204 (Introduction), and 305-306 (Political Thought).

Entry to any political science course which is numbered above 300 requires the completion of Political Science 203 and 204 or the permission of the instructor.

Majors in political science should present a minor in one of the following fields: Economics, History, Philosophy, or Sociology.

A minor in political science should include Political Science 203-204.

Students preparing to enter a school of law or contemplating careers in public administration should normally take Economics 307 (Essentials of Accounting) and Economics 309 (Business Law) in addition to a major in political science regardless of choice of minor. (See paragraph above.)

Students preparing for graduate work in foreign relations or who plan careers in foreign service should normally complete a political science major plus four years of a modern language plus one of the above-listed minors.

The meeting or satisfaction of any of the above-stated stipulations in no way releases students from the requirements (overall) of the General A.B. degree.

203. **Introduction to American Government. I** Three hours  
 The first semester is intended as an introduction to political science: the nature of government, the state, law; constitutions, forms of government, ideologies. Designed to provide a background for more intensive study of American government.
204. **Introduction to American Government. II** Three hours  
 Continuation of 203. A detailed study of American national government, analyzing its constitutional foundations, its structure and its functions; civil liberties, political parties, pressure groups.
205. **Government of Modern States. I** Three hours  
 A study of the governments of the major powers of Europe: Great Britain, France, Germany and Russia. Sketches the historical background and the major factors (social, economic, ideological) which influence the process of government in each of these countries. Special attention is paid to post-war developments, to political movements, and to comparison of democratic and dictatorial regimes.
206. **Government of Modern States. II** Three hours  
 Continuation of 205. Includes brief treatment of the governments of some minor European states: Switzerland, the Netherlands.
301. **State and Local Government. I** Three hours  
 The development and philosophy of the American federal system; constitutional bases of state and local government; state and local administrative problems; formal and informal distribution of power in local communities.
302. **Parties, Public Opinion, and Pressure Groups. II** Three hours  
 A study of the basic ideas of political parties and pressure groups; party organization, finance, electoral activity; pressure groups and public opinion; analysis of the competition for power among major organized interests such as business, labor and agriculture.
305. **History of Ancient and Medieval Political Thought. I** Three hours  
 The development of political theory up to the Reformation. The leading theorists from Plato to Machiavelli; Church and State in the Middle Ages; medieval constitutionalism.
306. **History of Modern Political Thought. II** Three hours  
 Representative political theorists from the Reformation to the present day.
307. **International Politics. I** Three hours  
 An analysis of basic factors involved in world politics; the modern state system, nationalism, militarism, imperialism; the evolution of international relations; the foreign policies of major powers.
308. **International Politics. II** Three hours  
 Continuation of 307. Special emphasis is placed on problems of American foreign policy; the process of foreign policy formulation in the United States; problems of international organization.
309. **Constitutional Law. Not offered 1966-'67.** Three hours  
 The American Constitution as interpreted by the Supreme Court. Analyzes the leading cases in which the Court has laid down principles governing the relations between the national government and the states and between the three branches of the national government; limitations on Congress; limitations on the states.
310. **Constitutional Law. Not offered 1966-'67.** Three hours  
 Continuation of 309. Special emphasis on constitutional issues in the field of civil liberties: freedom of religion, free speech, due process of law.

## Psychology

DALING (chairman), BIJKERK, DE BEER, \*KASS, C. PLANTINGA,  
REYNOLDS, VAN BRUGGEN, YOUNGS

The following courses are recommended for those intending to minor in psychology: 201, 204, 212, plus two 300-level courses. These courses should be taken in the order in which they are listed.

The minimum total number of hours in psychology required of a psychology major is 24. This constitutes a terminal major in psychology and should include the following courses: 201, 204, 212, 300 or 302, 301 or 304, 311, plus any two other courses at least one of which is a 300-level course.

Students who expect to be recommended for graduate work in psychology should take six additional hours of 300-level courses beyond the minimum of 24 hours; they also must take six hours in Mathematics (Probability Theory and Statistics), or Education 310. It is recommended that the Mathematics courses be taken in the sophomore year, or at the latest in the junior year.

The following courses are recommended for those who plan to do graduate work in the area of counseling and guidance: 201, 204, 212, 300 or 302, 301 or 304, 311, 312, 308, plus any two other courses.

The following courses are recommended for those who plan to go into graduate psychology studies: 201, 204, 212, 300 or 302, 301 or 304, 308, 311, 314, plus any other course and the 400 Senior Seminar course. Students with a general average in psychology below the grade of B cannot be recommended, nor those who have not had the 400 Senior Seminar course.

All majors who plan to do graduate work in psychology are strongly urged to take a course in the Philosophy of the Social Sciences.

The first minor for a psychology major may be taken in either Group II or Group III (the second minor could be in Group I).

### 201. General Psychology. I and II 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. I and II 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. I and II 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.

### 207. Adolescent Psychology. I Three hours

A specialized course in developmental psychology directed specifically to the period from puberty to adulthood. Prerequisite: 201 and 204.

### 209. Mental Hygiene. II Three hours

A study of personal attitudes toward reality and the solution of maladjustment by means of integration. Prerequisite: 201.

\*On leave of absence 1966-'67.

- 212. The Psychology of Abnormal People. I and II** **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.
- 216. Psychology of Exceptional (handicapped) Children** **Three hours**  
 I and II  
 A study of psychological disorders in children, such as mental deficiency, partial defects of intelligence, personality disorders, neuroses. Attention will be given to diverse childhood intellectual, emotional, and motivational disturbances as caused by poor environmental conditions or by constitutional defects of mind or body. Prerequisites: Psychology 201 and 204.
- 300. Advanced General Psychology. I** **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: 201.
- 301. History of Psychology. I** **Three hours**  
 A historical introduction to the problems and theories of modern psychology with special reference to the origin of divergences in the interpretation of human nature. Prerequisite: six hours of psychology.
- 302. Theories of Learning. II** **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. Permission of instructor required.
- 304. Contemporary Schools of Psychology. II** **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. Prerequisites: nine hours of psychology and preferably at least three hours of philosophy.
- 308. Experimental Psychology. I** **Three hours**  
 A critical survey of experimental methods, problems, materials, results, and conclusions, with major emphasis on perception and learning but also some attention to broader problems of personality investigation. Two classroom hours and one two-hour laboratory period per week. Prerequisites: open only to juniors and seniors intending to major in psychology or allied areas who have had a course in statistics plus at least nine hours of psychology.
- 310. Social Psychology. I and II** **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. Prerequisite: Psychology 201 and Sociology 203 or their equivalents. Offered first semester by department of sociology, second semester by department of psychology.
- 311. Theories of Personality. I** **Three hours**  
 An introduction to modern American and European theories concerning the psychological structure and dynamics of the human person. Prerequisite: nine hours of psychology, including Psychology 212.
- 312. Principles of Psychological Measurements. I** **Three hours**  
 This course aims to give the student a thorough introduction to the theoretical and practical issues, viewpoints, and techniques of psychological

testing in the areas of both intelligence testing and projective techniques. Open only to psychology majors in their junior or senior year. Prerequisite: Mathematics 206 or Education 310.

- 314. Clinical Psychology. II** Three hours  
 An introduction to the science, techniques, and art of employing psychological means to promote the welfare or mental health of a person. Prerequisites: Psychology 212, 311, and 312.
- 322. Perspectives of Psychology. II** Three hours  
 In this course the purpose is to explore relationships of psychology to (or its involvement in) various issues in our culture in such areas as literature or religion, art, morality. Normally, in any given semester, major emphasis will be focussed on only one of these areas. (In 1966-'67 the emphasis will be on Psychology in Literature.) Open, with permission of the instructor, to anyone who has had six hours of psychology and preferably at least three hours of philosophy.
- 400. Senior Seminar on Issues in Present-Day Psychology. I** Three hours  
 The seminar consists of presentation and discussion of papers based on current psychological literature or on empirical research. The final examination will cover all the areas explored in the individual projects. Open, by permission of the current director, to seniors majoring in psychology, and recommended for all those who intend to do graduate work in psychology.

### Religion and Theology

J. BRATT (chairman), W. DE BOER, HOEKSTRA, HOLWERDA, MINNEMA,  
 PRIMUS, SMEDES, SPYKMAN, SWEETMAN, \*C. VOS, L. VOS

Students who contemplate a major in Religion and Theology or Religious Education should confer with a member of the department staff before the beginning of their junior year.

- 103. Biblical Theology. I and II** Three hours  
 A study of the unfolding of the history of redemption as set forth within the historical framework of the Old Testament, Inter-Testament, and New Testament eras. Biblical books and Apocryphal literature are analyzed and the major themes of Scripture are explicated.
- 203. Principles of Missions. II** Two hours  
 This course begins with a survey of the most pertinent Biblical material 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. Religion and Theology 206 is a prerequisite.
- 204. History of Missions. I** 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 or failure. In the modern period the major revivals in America receive some attention. Not open to Freshmen. Religion and Theology 206 is a prerequisite.
- 205. Comparative World Religions. Not offered 1966-'67.** Three hours  
 An analytical and critical study of the major non-Christian religions of our day, especially Primitivism, Hinduism, Buddhism, and Islamism. Attention is given to cultural and religious relationships with Christianity and problems of missionary approach. Not open to Freshmen. Religion and Theology 206 is a prerequisite.

\*On leave of absence 1966-'67.

206. **Reformation Theology. I and II** Three hours  
 A study of Christian doctrine as formulated in the Protestant Reformation and refined and elaborated by later Reformed theologians. Comparisons are drawn between the Reformed system and that of other branches of Christendom. Calvin's Institutes of the Christian Religion serves as a basic text. Not open to Freshmen.
207. **The Old Testament Prophetical Literature. II** Three hours  
 An intensive study of the place and role of the major and minor prophets in the canon of the Old Testament, the commentary they offer upon the history of redemption in Old Testament times, together with an exploration in depth of their basic themes toward their fulfillment in New Testament revelation.
208. **The New Testament Epistolary Literature.** Three hours  
 Not offered 1966-'67.  
 An intensive study of the place and role of the epistles in the canon of the New Testament, the doctrinal and ethical interpretations which they give of the redemption portrayed in the Gospels, the light they shed on the early Christian Church, and their abiding relevance and significance.
301. **Studies in Calvinism. I and II** Three hours  
 An historically oriented study of Calvinism and its basic concepts. Its origin and development is traced, its impact upon cultures in which it took root as well as the impact of those cultures upon it is assessed, and its contemporary relevance is evaluated. Open *only* to Juniors and Seniors.
302. **Biblical Archaeology.** Not offered 1966-'67. Three hours  
 A study of the pertinent archaeological data which provide a background for or throw light upon the Biblical narrative. Open to Juniors and Seniors.
303. **General Church History.** Not offered 1966-'67. Three hours  
 A survey of the history of the Christian Church from its beginnings to the present time.
304. **American Church History. I** 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.
306. **History of the Christian Reformed Church. II** Three hours  
 The historical antecedents and the development of the Christian Reformed Church in America.
308. **Contemporary Theology.** Not offered 1966-'67. Three hours  
 Selected writings of significant contemporary theologians are read and evaluated. Religion and Theology 206 and Philosophy 302 are recommended as prerequisites.
311. **History of Christian Social Thought.** Not offered 1966-'67 Three hours  
 A study of the interrelatedness of Christian teaching and society. From the history of the Christian Church certain periods and movements will be selected demonstrating the interaction of Christian faith and social forces.
312. **Early Christian Theology.** Not offered 1966-'67. Three hours  
 A study of the Church's growth towards self-conscious commitment to an articulation of its faith from the subapostolic age through St. Augustine. Development and growth of thought will be emphasized and selected writings of major theologians will be studied.

313. **Roman Catholic Theology.** Not offered 1966-'67. **Three hours**  
The development of Roman Catholic theology from the medieval era to present times, finding its climax in Vatican II. The Counter-Reformation theology, papal encyclicals, and major schools of thought will be examined.
319. **Theological and Historical Foundations of Religious Education. I** **Three hours**  
A survey of the major religious education programs produced by a variety of theological and historical factors from Old Testament times to the present. Through integrating theoretical study and observation of existing religious education programs, the student will be guided in developing an approach to religious education which is both Biblical and relevant.
320. **Psychology and Teaching in Religious Education. II** **Three hours**  
A study of the relevance to religious education of selected materials from the social and behavioral sciences. Guided by the insights gained from this study, curriculum materials, teaching aids and unit and lesson planning will be developed and evaluated. Supervised classroom experience will be required of all students. Normally open only to Juniors and Seniors, to others with permission of the instructor.

### Sociology

VANDEN BERG (chairman), HOLSTEGE, RICE, ROTTMAN, SNAPPER, \*WILSON

A basic major in sociology is composed of 24 hours, including 203 and 204, and at least 15 upper division hours. However, a student who is preparing for graduate school either in sociology or social work, in order to receive the recommendation of the department, must take an additional three hours of upper division work and must include the following courses:

If preparing for graduate school in *Sociology*: 310, 317, 318, and 320. Mathematics 205 is strongly recommended but does not apply toward a major in sociology;

If preparing for graduate school in *social work*: 310, 317, and 320. A student intending to do graduate work in social work need not necessarily elect sociology as his (her) major.

Request for recommendation to graduate school should be made in writing on a blank provided in the sociology offices.

Anyone who minors in sociology must include a minimum of nine hours of 300-level courses.

Entry to any 300-level course requires the completion of 204 and either 203 or 210, or permission of the instructor.

203. **Principles of Sociology. I and II** **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. I and II** **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, crime and delinquency, divorce, race and minority cleavages, and urban problems. It is desirable, but not necessary, to precede this course with 203.
205. **The Fields of Social Work. I and II** **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

\*On leave of absence first semester 1966-'67.

with deviant forms of behavior and situations are studied both theoretically and in operation. Prerequisite: 203 and 204, or equivalent. Open only to sociology majors.

210. **Introduction to Anthropology. II** Three hours  
 The major areas of anthropology are critically evaluated in terms of a Biblical view of man and the world. These concern man in antiquity, the origin of the races, development of culture and cultural relativity. Relevant scriptural passages are considered.
304. **The Family. II** Three hours  
 This course aims at an intensive culturally comparative and historical analysis of the family as a social and educational institution, and a discussion of divorce and other problems connected with family life. Prerequisites: 203 and 204, or equivalent.
306. **Criminology and Delinquency. II** 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. Prerequisites: 203 or 204.
307. **Urban Community. I** Three hours  
 A descriptive and theoretical analysis of culturally variant urban communities. The emphasis is on function, process, value systems and styles of life, as well as on community structure. The suburban and "fringe" development is considered as well as urban relationships. Prerequisites: 203 or 204.
309. **Educational Sociology. II** Three hours  
 The school as a social institution, School-Community relations, social control of education, and structure of school society. Prerequisite: 203.
310. **Social Psychology. I** Three hours  
 Human behavior in relation to social environment, the shaping of personality through group membership, the impact of personality on the group, and collective behavior. (Credit applied either as psychology or sociology.) Prerequisite: Introductory courses in sociology and psychology.
315. **Introduction to Social Case Work. I and II** Three hours  
 The analysis of social work principles, problems, and methods based upon theoretical and case material. Prerequisites: 203 and 204, or equivalent. Open only to sociology majors.
317. **Social Anthropology. II** 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. Prerequisite: 203 or equivalent.
318. **Advanced Sociological Theory. I** Three hours  
 The development of sociology, including its European backgrounds and early beginnings in the 20th century in America. Calvinistic appraisal of sociological pioneers, selected sociological concepts, and a general analysis of contemporary journal articles. Prerequisite: at least 12 hours of sociology.
320. **Pro-Seminar in Sociological Research. II** Three hours  
 Involves the actual formulation of sociologically significant hypothesis, designing research to test them, collection and analysis of data, the use and misuse of statistics. Prerequisite: At least 12 hours of sociology, including 318 or permission of department chairman.

## Spanish

CORTINA, DE TORO, VILA

101. **Elementary Spanish. I** Four hours  
 An introductory course in the use and comprehension of oral and written Spanish.
102. **Elementary Spanish. II** Four hours  
 Continuation of Spanish 101.
201. **Intermediate Spanish. I** Three hours  
 Review of essential grammatical structures and further training in spoken and written Spanish. Readings from significant Spanish authors.
202. **Intermediate Spanish. II** Three hours  
 Continuation of Spanish 201.
207. **Readings in Spanish and Latin American Literature. I.** Three hours  
 An introductory survey of Spanish literature from the Middle Ages to the present. The first semester deals with Spanish Literature up to the 18th century. Emphasis will be placed on representative authors within the main literary currents. Lectures, readings, and reports. Prerequisite: Spanish 202.
208. **Readings in Spanish and Latin American Literature. II** Three hours  
 Continuation of Spanish 207. This second semester deals with Spanish Literature of the *Generación del '98* up to the present. Some representative Latin-American authors will also be studied.
303. **The Spanish Novel. I** Three hours  
 A study of the Spanish Novel from *La Celestina* to the present. Reading and interpretation of key chapters in Spain's outstanding novels together with a study of the chief characteristics of the various types of novels. Prerequisite: Spanish 202 or its equivalent.
304. **The Spanish Novel. II** Three hours  
 Continuation of Spanish 303.
307. **Modern and Contemporary Spanish Literature.** Three hours  
 Not offered 1966-'67.  
 A study of the works of representative Spanish authors from 1888 to about 1936. Lectures, readings, and reports. Prerequisite: Spanish 202 or its equivalent.
308. **Modern and Contemporary Spanish Literature.** Three hours  
 Not offered 1966-'67.  
 Continuation of 307, from the year 1936 to the present.

## Speech

BERGHUIS (chairman), MRS. BOEVE, BRAUN, \*D. BYKER, DE KOSTER,  
 HOLQUIST, OZINGA, M. VANDE GUCHTE

A student wishing to major in Speech should consult one of the members of the staff.

### PRACTICE — THEORY COURSES

103. **Fundamentals of Speech. I and II** Two hours  
 Basic principles of public speaking on the college level, with the aim of developing proper mental, vocal, and physical habits.

\*On leave of absence 1966-'67.

104. **Fundamentals of Speech. I and 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: 103 or its equivalent. Offered both semesters.
106. **Diction for the Foreign Student. I** **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.
109. **Speech for the Classroom Teacher. I and II** **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 activities in the classroom.
202. **Parliamentary Procedure. II** **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.
205. **Advanced Speech Composition. I and II** **Three 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. I** **One hour**  
Prerequisite to 208. A study of Adler's *How to Read a Book* intended to prepare the student for careful and critical reading of the Great Books chosen as basic for work in 208. Open to Freshmen by permission.
208. **Speech Based on the Great Books. II** **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: 207.
215. **Principles of Speech Correction. I and II** **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. Not open to Freshmen, except by special permission.
219. **Principles of Dramatic Productions. I and II** **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.
225. **Ancient and Medieval Orators and Theories of Speech.** **Three hours**  
Not offered 1966-'67.  
An historical and analytical study of ancient and medieval orators and rhetoricians, including Plato, Aristotle, Demosthenes, Cicero, Quintilian, Saint Augustine, and the patristic orators. Not open to freshmen.
226. **Renaissance and Modern Orators and Theories of Speech.** **Three hours**  
Not offered 1966-'67.  
An historical and analytical study of Renaissance and modern orators and rhetoricians with special reference to the social and political movements in history. Representative speeches will be selected for analysis. Not open to freshmen.

301. **Advanced Speech. I and II** Two hours  
 A practice course, designed for pre-seminary students. Open to others only by permission.
303. **Interpretative Reading. I and II** Three hours  
 The principles and techniques of interpretation and expression. Oral interpretation of prose and poetry. Intensive study of representative selections.
304. **Advanced Interpretation. II** Three hours  
 Continuation of 303. Application of its principles to drama. Study of development from Greek to modern drama. Collateral reading.
311. **Oral Discussion and Debate. I** Two hours  
 Theory and practice of discussion and debate in their various forms. The use of analysis, evidence, and argumentation is developed.
330. **The Teaching of Speech. II** One hour  
 Methods of teaching speech in the secondary schools. Attention will be given to the handling of extracurricular forensic activities. 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
220. **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.
310. **Intercollegiate Interpretative Reading** One hour per year
312. **Intercollegiate Debating** Two hours per year  
 League Debaters One hour per year  
 Tournament Debaters

#### SUMMARY OF ENROLLMENT

Fall 1965 and Summer 1965

Seniors .....	607
Juniors .....	619
Sophomores .....	710
Freshmen .....	912
Post-graduate .....	44
Special .....	50
Summer, 1965 .....	484
Total .....	3,426

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\*On leave of absence 1966-'67.

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