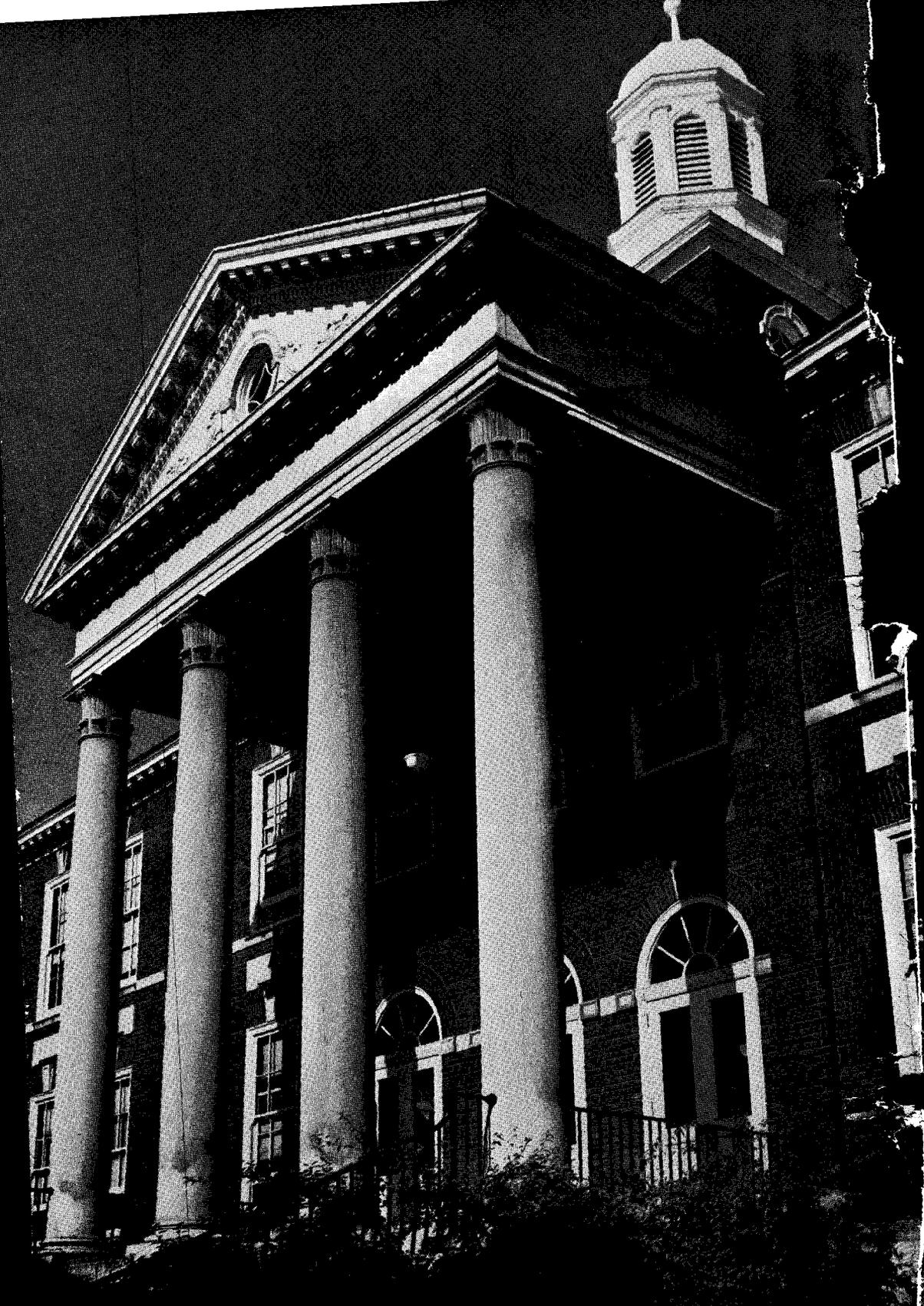


AERIAL VIEW OF CAMPUS



ADMINISTRATION BUILDING

# *Calvin College*

An Institution of the Christian Reformed Church

BULLETIN  
1961 - 1962

GRAND RAPIDS 6, MICHIGAN



## How to Address Correspondence

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

Requests for catalogs and for application blanks for admission to Calvin College should be addressed to the Registrar. Application blanks should be returned to the Office of Admissions.

Scholarship applications should be requested from the Chairman of the Scholarship Committee.

Transcripts of record at Calvin College are forwarded only upon request of the student himself, preferably in writing, and requests should be addressed to the Registrar.

For information concerning admission and graduation requirements, address the Office of Admissions.

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

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

Regarding part-time employment, address the Employment Office.

Regarding teaching positions after graduation, address the Placement Bureau.

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

All checks should be made payable to Calvin College. Correspondence concerning them should be sent to the Business Office.

● CALENDAR FOR 1961 ●																											
<b>JANUARY</b>							<b>APRIL</b>							<b>JULY</b>							<b>OCTOBER</b>						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	2	3	4	5	6	7	8	2	3	4	5	6	7	8	1	2	3	4	5	6	7
8	9	10	11	12	13	14	9	10	11	12	13	14	15	9	10	11	12	13	14	15	8	9	10	11	12	13	14
15	16	17	18	19	20	21	16	17	18	19	20	21	22	16	17	18	19	20	21	22	15	16	17	18	19	20	21
22	23	24	25	26	27	28	23	24	25	26	27	28	29	23	24	25	26	27	28	29	22	23	24	25	26	27	28
29	30	31					30							30	31						29	30	31				
<b>FEBRUARY</b>							<b>MAY</b>							<b>AUGUST</b>							<b>NOVEMBER</b>						
1	2	3	4				1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4					
5	6	7	8	9	10	11	7	8	9	10	11	12	13	6	7	8	9	10	11	12	5	6	7	8	9	10	11
12	13	14	15	16	17	18	14	15	16	17	18	19	20	13	14	15	16	17	18	19	12	13	14	15	16	17	18
19	20	21	22	23	24	25	21	22	23	24	25	26	27	20	21	22	23	24	25	26	19	20	21	22	23	24	25
26	27	28					28	29	30	31				27	28	29	30	31			26	27	28	29	30		
<b>MARCH</b>							<b>JUNE</b>							<b>SEPTEMBER</b>							<b>DECEMBER</b>						
1	2	3	4				1	2	3				1	2					1	2							
5	6	7	8	9	10	11	4	5	6	7	8	9	10	3	4	5	6	7	8	9	3	4	5	6	7	8	9
12	13	14	15	16	17	18	11	12	13	14	15	16	17	10	11	12	13	14	15	16	10	11	12	13	14	15	16
19	20	21	22	23	24	25	18	19	20	21	22	23	24	17	18	19	20	21	22	23	17	18	19	20	21	22	23
26	27	28	29	30	31		25	26	27	28	29	30	24	25	26	27	28	29	30	24	25	26	27	28	29	30	

● CALENDAR FOR 1962 ●																											
<b>JANUARY</b>							<b>APRIL</b>							<b>JULY</b>							<b>OCTOBER</b>						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6		1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
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21	22	23	24	25	26	27	22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
28	29	30	31				29	30						29	30	31					28	29	30	31			
<b>FEBRUARY</b>							<b>MAY</b>							<b>AUGUST</b>							<b>NOVEMBER</b>						
1	2	3					1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7		
4	5	6	7	8	9	10	6	7	8	9	10	11	12	5	6	7	8	9	10	11	4	5	6	7	8	9	10
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25	26	27	28				27	28	29	30	31			26	27	28	29	30	31	25	26	27	28	29	30		
<b>MARCH</b>							<b>JUNE</b>							<b>SEPTEMBER</b>							<b>DECEMBER</b>						
1	2	3					1	2					1						1								
4	5	6	7	8	9	10	3	4	5	6	7	8	9	2	3	4	5	6	7	8	2	3	4	5	6	7	8
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25	26	27	28	29	30	31	24	25	26	27	28	29	30	23	24	25	26	27	28	29	23	24	25	26	27	28	29

● CALENDAR FOR 1963 ●																											
<b>JANUARY</b>							<b>APRIL</b>							<b>JULY</b>							<b>OCTOBER</b>						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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27	28	29	30	31			28	29	30					28	29	30	31				27	28	29	30	31		
<b>FEBRUARY</b>							<b>MAY</b>							<b>AUGUST</b>							<b>NOVEMBER</b>						
1	2						1	2	3	4				1	2	3					1	2					
3	4	5	6	7	8	9	5	6	7	8	9	10	11	4	5	6	7	8	9	10	3	4	5	6	7	8	9
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24	25	26	27	28			26	27	28	29	30	31		25	26	27	28	29	30	31	24	25	26	27	28	29	30
<b>MARCH</b>							<b>JUNE</b>							<b>SEPTEMBER</b>							<b>DECEMBER</b>						
1	2						1						1	2	3	4	5	6	7	1	2	3	4	5	6	7	
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17	18	19	20	21	22	23	16	17	18	19	20	21	22	22	23	24	25	26	27	28	22	23	24	25	26	27	28
24	25	26	27	28	29	30	23	24	25	26	27	28	29	29	30						29	30	31				

# CALENDAR

## 1961-1962

### 1961

September	6	Wednesday .....	Faculty Conference
September	7-12	Thursday through Tuesday .....	Freshman Orientation
September	11-12	Monday and Tuesday .....	Registration of all students by alphabetical groups
September	13	Wednesday, 8:00 a.m. ....	Classes begin
		9:00 a.m. ....	Convocation
November	22	Wednesday, 12:00 noon .....	Thanksgiving recess begins
November	25	Saturday, 12:00 noon .....	Thanksgiving recess ends
December	20	Wednesday, 12:00 noon .....	Christmas vacation begins

### 1962

January	4	Thursday, 8:00 a.m. ....	Classes resume
January	18	Thursday, 9:00 a.m. ....	Final examinations begin
January	27	Saturday .....	First semester ends
January	29-30	Monday and Tuesday .....	Registration for second semester
January	31	Wednesday, 8:00 a.m. ....	Second semester begins
March	28	Wednesday, 5:00 p.m. ....	Spring vacation begins
April	5	Thursday, 8:00 a.m. ....	Classes resume
May	2	Wednesday .....	Honors Convocation
May	10	Thursday .....	Fine Arts Festival
May	21	Monday .....	Final examinations begin
June	1	Friday .....	Commencement

### Summer Session

June	18	Monday, 8:30 a.m. ....	Summer Session Registration
June	19	Tuesday, 8:00 a.m. ....	Classes begin
July	27	Friday .....	Summer Session ends (6-week)
August	10	Friday .....	Summer Session ends (8-week)

### General Session — 1962 - 1963

September	5	Wednesday .....	Faculty Conference
September	6-11	Thursday through Tuesday .....	Freshman Orientation
September	10-11	Monday and Tuesday .....	Registration of all students by alphabetical groups
September	12	Wednesday, 8:00 a.m. ....	Classes begin
		9:00 a.m. ....	Convocation

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(*Classis Alberta North*)
- The Rev. T. E. Hofman.....3704 - 15 A St., S.W., Calgary, Alta., Canada  
(*Classis Alberta South*)
- The Rev. H. Van Andel.....708 Second St., New Westminster, B. C., Canada  
(*Classis British Columbia*)
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(*Classis Cadillac*)
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(*Classis California*)
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(*Classis Grand Rapids West*)
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(*Classis Grandville*)
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(*Classis Hackensack*)
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(*Classis Hamilton*)
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(*Classis Holland*)
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(*Classis Hudson*)
- The Rev. T. Yff.....2746 Bronson Circle, Kalamazoo, Mich.  
(*Classis Kalamazoo*)
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(*Classis Lake Erie*)
- The Rev. R. Evenhuis.....Pease, Minn.  
(*Classis Minnesota North*)
- The Rev. J. Leugs.....P.O. Box 456, Edgerton, Minn.  
(*Classis Minnesota South*)
- The Rev. J. Breuker.....845 W. Hile Rd., Muskegon 51, Mich.  
(*Classis Muskegon*)
- The Rev. K. Slager.....RR 2, Grundy Center, Ia.  
(*Classis Northcentral Iowa*)

- The Rev. L. C. Bossenbroek.....P.O. Box 156, Ocheyedan, Ia.  
(*Classis Orange City*)
- The Rev. J. Griffioen.....521 S. 8th St., Sunnyside, Wash.  
(*Classis Pacific*)
- The Rev. J. H. Olthoff.....320 N. 6th St., Oskaloosa, Ia.  
(*Classis Pella*)
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(*Classis Rocky Mountain*)
- The Rev. H. Petersen.....Platte, S.D.  
(*Classis Sioux Center*)
- The Rev. H. A. Venema..259 Albion Rd., P.O., Rexdale, Toronto, Ont., Canada  
(*Classis Toronto*)
- The Rev. H. Exoo.....426 Geele Ave., Sheboygan, Wis.  
(*Classis Wisconsin*)
- The Rev. J. Gritter.....Jamestown, Mich.  
(*Classis Zeeland*)
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- Mr. E. Feenstra, Ph.D.....627 Gorham Lane, Kalamazoo, Mich.
- Mr. D. De Vries, M.D.....2500 Cascade Rd., S.E., Grand Rapids, Mich.
- Mr. G. Tinholt.....316 Lake Shore Ave., Holland, Mich.
- Mr. H. Kreulen, M.D.....2452 Godwin Ave., S.E., Grand Rapids, Mich.
- Mr. R. Hoekstra, A.B.....1031 Parmalee Ave., N.W., Grand Rapids, Mich.  
(*Central District*)
- Mr. B. De Boer, Ph.D.....311 Alpha, Grand Forks, N. Dak.  
(*Midwest District*)
- Mr. H. De Jong, D.D.S.....Ripon, Cal.  
(*Far West District*)

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William Spoelhof, Ph.D. ....President  
Henry J. Ryskamp, Ph.D. ....Dean of the College  
Melvin Berghuis, A.M. ....Registrar and Director of Admissions  
Philip Lucasse, A.M. ....Dean of Men  
Catherine Van Opynen, A.M. ....Dean of Women  
Henry Hocks, M.S. ....Assistant Registrar

### BUSINESS

Henry De Wit, M.B.A. (C.P.A.) ....Business Manager  
Sydney Youngsma ....Development Secretary  
Lester Ippel ....Assistant Business Manager

### HEALTH SERVICE

Staff available at the Health Center:

Harvey Bratt, M.D.

833 Lake Drive, S.E.

GL 1-0766

Tuesday and Thursday

Laurence H. Feenstra, M.D.

12 Burton Street, S.E.

GL 2-1022

Monday, Wednesday, Friday

Leonard Vander Linde, Ph.D.

1328 Madison Avenue, S.E.

CH 1-2677

By appointment

Mrs. Carlene De Roo, B.S., R.N.

1314 Sigsbee St., S.E.

### CLERICAL AND STENOGRAPHIC

#### Academic Office

Baker, Donna ....Secretary to the Registrar  
Bensema, Gretchen ....Secretary to the Dean of Men  
De Beer, Shirley ....Teacher Certification Clerk  
De Leeuw, Ethel ....Secretary, Directed Teaching and Observation Office  
Dykhouse, Marilyn ....Counseling and Student Employment Clerk  
Keen, Marlys ....Receptionist and Switchboard Operator  
Prins, Caroline..... Admissions Clerk  
Prins, Paula ....Record Clerk

Stonehouse, Alice .....Supervisor of Part-time Student Personnel  
 Veen, Adeline .....Secretary to the Dean of the College  
 Veen, Carol .....Secretary to the President  
 Vedders, Regina .....Secretary to the Dean of Women  
 Wierenga, Joyce .....Transcript Clerk

#### Bookstore

Klomp, Connie .....Clerk  
 Poel, Janna .....Manager

#### Business Office

Haan, Jo ....Secretary to the Business Manager and to the Development Secretary  
 Kamp, George .....Statistician  
 Kroeze, Elmer .....Manager of the Supply Office  
 Stuursma, Dorothy .....Building Fund Clerk  
 Van Huesen, Cora .....Revenue and Student Account Clerk

#### Library

Clark, Louise .....Clerk  
 Kamper, Marguerite .....Secretary to the Director of the Library  
 Lewen, Albert, A.M. ....Bibliographer  
 Vanden Berg, Emma .....Clerk

### HOUSING AND MAINTENANCE

#### Housing

Counselors .....Guild Houses 1302, 1304, 1310, 1320, 1324,  
 1332, College Hall, and Grace Hall  
 Mrs. Lula Nelson .....Housemother, Calvin Hall  
 Mrs. Ruth Vontom .....Housemother, Guild House 818 Bates Street  
 Miss Hermina E. Reinhart .....Housemother, Men's Dormitory,  
 701 Giddings Avenue

#### Maintenance

Peter De Loof .....Chief Engineer

## THE FACULTY

- WILLIAM SPOELHOF, PH.D., *President***  
1315 Alexander Street, S.E. Telephone CH 3-0636
- JACOB G. VANDEN BOSCH, A.M.**  
*Professor of English Language and Literature, Emeritus*  
857 Bates Street, S.E. Telephone CH 5-6054
- ALBERT E. BROENE, A.B.**  
*Professor of Modern Languages, Emeritus*  
1355 Sherman Street, S.E. Telephone GL 4-6363
- JOHANNES BROENE, A.M.**  
*Professor of Education and Psychology, Emeritus*  
629 S. Buena Vista, Redlands, California
- JOHN P. VAN HAITSMAN, PH.D.**  
*Professor of Biology, Emeritus*  
1027 Benjamin Avenue, S.E. Telephone CH 3-5306
- HENRY J. G. VAN ANDEL, A.M.**  
*Professor of Language and Culture of the Netherlands, Emeritus*  
1231 Giddings Avenue, S.E. Telephone CH 5-5096
- PETER HOEKSTRA, PH.D.**  
*Professor of History and Political Science, Emeritus*  
1015 Worden Street, S.E. Telephone CH 5-5057
- H. HENRY MEETER, TH.D.**  
*Professor of Bible, Emeritus*  
628 Billanntau Street, S.E. Telephone CH 5-7692
- HENRY VAN ZYL, PH.D.**  
*Professor of Educational Methods, Emeritus*  
1143 Fuller Avenue, S.E. Telephone CH 5-3656
- HARRY G. DEKKER, M.S., *Registrar Emeritus***  
*Professor of Chemistry, Emeritus*  
1309 Alexander Street, S.E. Telephone CH 3-1437
- RICHARD DROST, PH.D.**  
*Professor of History, Emeritus*  
1220 Sherman Street, S.E. Telephone CH 5-0951
- EMO F. J. VAN HALSEMA, S.T.M.**  
*Lecturer in the Department of Modern Languages, Emeritus*  
1042 Alger Street, S.E. Telephone CH 3-3109
- HENRY J. RYSKAMP, PH.D., *Dean of the College***  
*Professor of Economics and Sociology*  
1201 Sherman Street, S.E. Telephone GL 9-3857

**\*WILLIAM HARRY JELLEMA, PH.D.**

*Professor of Philosophy*

**SEYMOUR SWETS, A.M.**

*Professor of Music*

1110 Giddings Avenue, S.E.

Telephone CH 1-3551

**LAMBERT J. FLOKSTRA, PH.D., Secretary of the Faculty**

*Professor of Education*

1126 Alto Avenue, S.E.

Telephone CH 3-5979

**EDWIN Y. MONSMA, PH.D.**

*Professor of Biology*

719 Fuller Avenue, S.E.

Telephone CH 5-9861

**HARRY J. WASSINK, A.B., B.S.**

*Professor of Physics and Engineering*

835 Eastern Avenue, S.E.

Telephone GL 2-9502

**WILLIAM THOMAS RADIUS, PH.D.**

*Professor of Classical Languages*

1341 Colorado Avenue, S.E.

Telephone CH 5-1407

**ALBERT H. MUYSKENS, A.M.**

*Professor of Mathematics*

1557 Philadelphia Avenue, S.E.

Telephone CH 5-6752

**JOHN DE VRIES, PH.D.**

*Professor of Chemistry*

4461 - 36th Street, S.E.

Telephone CH 5-7354

**JOHN THOMAS DALING, PH.D.**

*Professor of Psychology*

0-1089 W. Leonard Road, RFD No. 5

Telephone OR 7-1186

**JOHN J. TIMMERMAN, PH.D.**

*Professor of English*

1133 Neland Avenue, S.E.

Telephone CH 5-0697

**JOHN HAROLD BRATT, TH.D.**

*Professor of Bible*

1206 Alexander Street, S.E.

Telephone CH 5-2041

**BERNARD FRIDSMA, PH.D.**

*Professor of Modern Languages*

1229 Sylvan Avenue, S.E.

Telephone CH 3-5340

**EARL STRIKWERDA, PH.D.**

*Professor of History*

1231 Franklin Street, S.E.

Telephone CH 3-7892

\*On leave of absence during 1961-'62.

- THEDFORD DIRKSE, PH.D.**  
*Professor of Chemistry*  
154 Holmdene Avenue, N.E. Telephone GL 8-9409
- CORNELIUS JAARSMA, PH.D.**  
*Professor of Education*  
2229 College Avenue, S.E. Telephone GL 2-3649
- JOHN VANDEN BERG, PH.D.**  
*Professor of Economics*  
1318 Adams Street, S.E. Telephone CH 3-1316
- CLARENCE BOERSMA, PH.D.**  
*Professor of Modern Languages*  
760 Rosewood Avenue, S.E. Telephone CH 1-5836
- JOHN LESTER DE BEER, ED.D.**  
*Professor of Education*  
1740 Giddings Avenue, S.E. Telephone GL 2-0396
- ENNO WOLTHUIS, PH.D.**  
*Professor of Chemistry*  
1702 Griggs Street, S.E. Telephone GL 2-9135
- CORNELIUS A. PLANTINGA, PH.D.**  
*Professor of Psychology*  
427 Mulford Drive, S.E. Telephone CH 3-3125
- HENRY P. IPPEL, PH.D.**  
*Professor of History*  
1327 Hope Street, S.E. Telephone GL 4-9192
- H. EVAN RUNNER, TH.M., PH.D.**  
*Professor of Philosophy*  
1220 Thomas Street, S.E. Telephone CH 3-2865
- BARNEY STEEN, ED.D.**  
*Professor of Physical Education*  
1858 Lotus Avenue, S.E. Telephone CH 3-4813
- JOHN VAN BRUGGEN, PH.D.**  
*Professor of Education*  
549 Benjamin Avenue, S.E. Telephone GL 4-2662
- CHARLES MILLER, PH.D.**  
*Professor of History*  
1250 Sherman Street, S.E. Telephone GL 2-9280
- TONY BROUWER, PH.D.**  
*Professor of Economics*  
1652 Shangrai-la Drive, S.E. Telephone GL 2-3337

- TUNIS PRINS, PH.D.  
*Professor of Philosophy*  
1805 Kendall Street, S.E. Telephone GL 2-5305
- BERT P. BOS, ED.D.  
*Administrative Director of Student Teacher Education*
- MARTIN KARSTEN, M.S.  
*Associate Professor of Biology*  
1304 Sherman Street, S.E. Telephone GL 2-4273
- JOHN TULS, A.M.  
*Associate Professor of Mathematics*  
101 Fuller Avenue, S.E. Telephone GL 4-4406
- HENRY R. VAN TIL, TH.M.  
*Associate Professor of Bible*  
1414 Dunham Street, S. E. Telephone GL 2-0085
- JAMES J. DE JONGE, M.S., M. Mus.  
*Associate Professor of Music*  
1300 Calvin Avenue, S.E. Telephone CH 3-7809
- JOHN WEIDENAAR, TH.M.  
*Associate Professor of Bible*  
2949 Oakwood Drive, S.E. Telephone CH 5-1776
- STEVE VAN DER WEELE, PH.D.  
*Associate Professor of English*  
1220 Fuller Avenue, S.E. Telephone GL 2-4598
- GEORGE HARPER, PH.D.  
*Associate Professor of English*  
1324 Bemis Street, S.E. Telephone GL 4-4295
- ANN M. JANSSEN, PH.D.  
*Associate Professor of Speech*  
1763 Kalamazoo Avenue, S.E. Telephone CH 1-4118
- ROBERT T. OTTEN, PH.D.  
*Associate Professor of Classical Languages*  
532 Ethel Avenue, S.E. Telephone GL 8-3165
- WALTER LAGERWEY, PH.D.  
*Associate Professor of Modern Languages*  
4558 Braeburn Street, S.E. Telephone GL 8-3109
- PETER OPPEWALL, PH.D.  
*Associate Professor of English*  
856 Benjamin Avenue, S.E. Telephone CH 3-0269

- HERMAN BROENE, PH.D.**  
*Associate Professor of Chemistry*  
1411 Rossman Avenue, S.E. Telephone GL 2-5600
- CARL J. SINKE, PH.D.**  
*Associate Professor of Mathematics*  
4511 - 36th Street, S.E. Telephone CH 3-0886
- LEWIS B. SMEDES, TH.D.**  
*Associate Professor of Bible*  
1237 Giddings Avenue, S.E. Telephone CH 5-9369
- GORDON J. SPYKMAN, TH.D.**  
*Associate Professor of Bible*  
928 Calvin Avenue, S.E. Telephone GL 2-9248
- NICHOLAS P. WOLTERSTORFF, PH.D.**  
*Associate Professor of Philosophy*  
1819 Kalamazoo Avenue, S.E. Telephone GL 2-0318
- LOUIS C. RUS, PH.D.**  
*Associate Professor of English*  
1709 York Drive, S.E. Telephone GL 2-9668
- DIRK W. JELLEMA, PH.D.**  
*Associate Professor of History*  
1001 Alexander Street, S.E. Telephone GL 2-5449
- GERTRUDE SLINGERLAND, A.M.**  
*Assistant Professor of English*  
2601 Almont Avenue, S.E. Telephone CH 5-7590
- CATHERINE W. VAN OPYNEN, A.M., A.M. IN ED., Dean of Women**  
2558 Belfast Avenue, S.E. Telephone CH 5-3920
- HENRY BENGELINK, M.S.**  
*Assistant Professor of Biology*  
1201 Sigsbee Street, S.E. Telephone GL 4-6602
- LESTER DE KOSTER, A.M., A.M.L.S., Director of the Library**  
*Assistant Professor of Speech*  
2800 Thornapple River Drive, S.E. Telephone GL 1-0973
- HELEN VAN LAAR, A.M.**  
*Assistant Professor of Education*  
1319 Sigsbee Street, S.E. Telephone GL 6-5083
- MELVIN E. BERGHUIS, A.M., Registrar and Director of Admissions**  
*Assistant Professor of Speech*  
1718 Radcliff Avenue, S.E. Telephone GL 2-3578

- ARTHUR J. OTTEN, A.M.**  
*Assistant Professor of Modern Languages*  
 553 Fuller Avenue, S.E. Telephone GL 1-0472
- JAMES P. BOSSCHER, M.S. in Aeronautical Engineering**  
*Assistant Professor of Engineering*  
 1429 Louise Avenue, S.E. Telephone CH 3-2841
- JOHN HAMERSMA, S.M.D.**  
*Assistant Professor of Music*  
 209 Morris Avenue, S.E. Telephone GL 4-2950
- WALTER D. DE VRIES, PH.D.**  
*Assistant Professor of History and Political Science*  
 1144 Benjamin Avenue, S.E. Telephone GL 2-7452
- HENRY DE WIT, M.B.A. (C.P.A.), Business Manager**  
*Assistant Professor of Economics and Business Administration*  
 1452 Cornell Drive, S.E. Telephone CH 5-1223
- HAROLD GEERDES, A.M.**  
*Assistant Professor of Music*  
 1244 Bates Street, S.E. Telephone CH 3-0621
- BERNARD TEN BROEK, PH.D.**  
*Assistant Professor of Biology*  
 1025 Alto Avenue, S.E. Telephone CH 3-9369
- RICHARD R. TIEMERSMA, A.M.**  
*Assistant Professor of English*  
 1333 Bemis Street, S.E. Telephone GL 9-6079
- LEONARD A. VANDER LUGT, M.S.**  
*Assistant Professor of Chemistry*  
 1818 Newark Avenue, S.E. Telephone CH 3-3022
- JOHN DE BIE, A.M.**  
*Assistant Professor of History*  
 1862 Morningside Drive, S.E. Telephone CH 3-8942
- ANDREW J. BANDSTRA, B.D.**  
*Assistant Professor of Bible*  
 1218 Alexander Street, S.E. Telephone CH 1-2595
- WINIFRED HOLKEBOER, A.M.**  
*Assistant Professor of English and Modern Languages*  
 1351 Sherman Street, S.E. Telephone GL 6-9114
- \*CLIFTON J. ORLEBEKE, A.M.**  
*Assistant Professor of Philosophy*

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\*On leave of absence during 1961-'62.

**DONALD E. PRUIS, M.B.A. (C.P.A.)***Assistant Professor of Economics and Business Administration*

7284 Grachen Drive, S.E., R. No. 3

Telephone OR 6-5397

**\*M. HOWARD RIENSTRA, A.M.***Assistant Professor of History***THEODORE A. ROTTMAN, A.M.***Assistant Professor of Sociology*

3501 Newcastle Drive, S.E.

Telephone GL 2-6178

**\*ROEL BIJKERK, DR.S.***Assistant Professor of Psychology***ROGER J. FABER, PH.D.***Assistant Professor of Physics*

2316 Floyd Street, S.W.

Telephone LE 4-1097

**STANLEY M. WIERSMA, PH.D.***Assistant Professor of English*

48 Auburn Avenue, S.E.

Telephone GL 9-3905

**J. MARION SNAPPER, ED.D.***Assistant Professor of Education*

1120 Watkins Street, S.E.

Telephone CH 5-9425

**GEORGE VAN ZWALENBERG, A.M.***Assistant Professor of Mathematics*

1141 Thomas Street, S.E.

Telephone CH 3-5950

**PAUL J. ZWIER, PH.D.***Assistant Professor of Mathematics*

1210 Sherman Street, S.E.

Telephone CH 3-7131

**DAVID TUUK, A.M.***Instructor in Physical Education*

1336 Dunham Street, S.E.

Telephone GL 2-5852

**MARTEN VANDE GUCHTE, M.ED.***Instructor in Speech*

662 Watkins Street, S.E.

Telephone CH 5-0691

**ALAN GEBBEN, A.M.***Instructor in Biology*

1338 Sigsbee Street, S.E.

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\*On leave of absence 1961-'62.

- ERNEST VAN VUGT, A.M.  
*Instructor in Classical Languages*  
 3549 Hillcrest Road, Hudsonville, Michigan Telephone MO 9-6409
- PHILIP R. LUCASSE, A.M., *Dean of Men*  
 851 Calvin Avenue, S.E. Telephone CH 5-7272
- HENRY HOLSTEGE, JR., A.M.  
*Instructor in Sociology*  
 1111 Franklin Street, S.E. Telephone CH 3-2572
- \*HENRIETTA TEN HARMSEL, A.M.  
*Instructor in English*
- \*\*RICHARD WESTMAAS, M.A.  
*Instructor in Psychology*
- EDGAR G. BOEVE, A.B., M.S.D.  
*Instructor in Education*  
 1421 Rossman Avenue, S.E. Telephone GL 2-9933
- WALLACE H. BRATT, A.M.  
*Instructor in Modern Languages*
- JOHAN G. WESTRA, A.M.  
*Instructor in History and Political Science*  
 1031 Underwood Avenue, S.E. Telephone CH 5-3672
- \*GEORGE HARRIS, A.M.  
*Instructor in Classical Languages*
- BERNARD B. KREUZER, A.M.  
*Instructor in Modern Languages*  
 850 Elliott Street, S.E. Telephone CH 5-7718
- DONALD OPPEWAL, A.M.  
*Instructor in Education*  
 5645 Burton Street, S.E. Telephone GL 2-3723
- GERTRUDE VANDER ARK, A.M.  
*Instructor in Education*  
 1909 Kalamazoo Avenue, S.E. Telephone CH 5-4304
- JOHN E. ZEGERS, A.M.  
*Visiting Instructor in Modern Languages*  
 1020 Benjamin Avenue, S.E. Telephone CH 3-7989
- ROGER D. GRIFFIOEN, PH.D.  
*Instructor in Physics*

\*On leave of absence during 1961-'62.

\*\*On leave of absence during the first semester, 1961-'62.

BEVERLY J. KLOOSTER, A.M.  
*Instructor in Biology*

GORDON L. VAN HARN, M.S.  
*Instructor in Biology*  
830 Benjamin Avenue, S.E.

EDWIN J. VAN KLEY, M.A.  
*Instructor in History*

CLARENCE J. VOS, TH.M.  
*Visiting Lecturer in Bible*

RICHARD F. WEVERS, M.A.  
*Instructor in Classical Languages*

MARVIN A. ZUIDEMA, M.A.  
*Instructor in Physical Education*  
5260 School Street, Hudsonville, Michigan

Telephone MO 9-9525

JOSEPHINE BAKER, A.M., A.M.L.S.  
*Librarian, Reader's Adviser*  
923 Eleventh Street, N.W.

Telephone GL 8-5744

BARBARA SLUITER, A.B., A.M.L.S.  
*Librarian, Cataloguing*  
1230 Diamond Avenue, N.E.

Telephone RI 2-5643

ANNETTE BUURSTRA, A.B., A.M.L.S.  
*Librarian, Circulation*  
932 Dickinson Street, S.E.

Telephone GL 2-6139

MILDRED ZYLSTRA, A.B., A.M.L.S.  
*Reference Librarian, Acting*  
711 Benjamin Avenue, S.E.

Telephone CH 3-5413

A. DONALD VROON, A.B.  
*Assistant in Physical Education*  
1519 Rosewood Avenue, S.E.

WINIFRED BYKER, A.B.  
*Assistant in Physical Education*  
901 Sigsbee Street, S.E.

Telephone GL 6-9824

JOHN BEVERSLUIS, A.M.  
*Assistant in Philosophy*

J. ARTHUR FABER, A.M.  
*Assistant in English*

PAUL E. SMITH, A.B.  
*Assistant in English*

JACK VANDEN BERG, A.B.  
*Student Assistant in English*

### Committees of the Faculty

1. ATHLETICS — Tuls, *Chairman and Faculty Representative on the M.I.A.A. Board*; J. De Vries, Karsten, Muyskens, John Vanden Berg, Vander Lugt, (Steen and Tuuk, advisory members).
2. DISCIPLINE — Wolthuis, *Chairman*; Bandstra, Bengelink, Brouwer, Janssen, Kreuzer, Strikwerda, Zwier.
3. EDUCATIONAL POLICY — Ryskamp, *Chairman*; Daling, Dirkse, Fridsma, Ippel, Timmerman, Van Bruggen.
4. FACULTY SOCIAL AND SPECIAL ACADEMIC ACTIVITIES — Berghuis, *Chairman*; Geerdes, Klooster, Radius, Slingerland, Tuuk, Vande Guchte.
5. COUNSELING AND GUIDANCE — Berghuis, *Chairman*; Pruis, R. Faber, P. Oppewall, Rottman, Spykman, Van Til, Van Zwalenberg, Wiersma (Dean of Women and Dean of Men, advisory members).
6. LIBRARY — Vander Weele, *Chairman*; Griffioen, Plantinga, Ten Broek, Westra.
7. PRE-SEMINARY RECOMMENDATIONS — Jaarsma, *Chairman*; Runner, Ryskamp, Smedes, Snapper, Weidenaar.
8. SCHOLARSHIP — Ryskamp, *Chairman*; Boersma, De Koster, Harper, Sinke, Wolterstorff.
9. STUDENT PUBLICATIONS — J. Bratt, *Chairman*; Broene (*Prism*), Miller (*Chimes*), Smedes (*Loci*).
10. STUDENT RELIGIOUS AND SOCIAL ACTIVITIES — Lucasse, *Chairman*; Bosscher, De Bie (Chapel Director), De Jonge, Lagerwey, Smedes, Steen, Van Opynen, Vos.

## Divisional and Departmental Organization

For the purpose of integrating the work of the various departments within a division and the work of the division with the broader educational objectives of the school as a whole, the various courses and departments are grouped under four large divisions as follows:

1. Division of Bible, Philosophy, Education and Art, Physical Education, and Psychology — DR. BRATT, *Chairman*.
  - a. Department of Bible — DR. BRATT, *Chairman*.
  - b. Department of Philosophy — DR. JELLEMA, *Chairman*.
  - c. Department of Education and Art — DR. JAARSMAN, *Chairman*.
  - d. Department of Physical Education — DR. STEEN, *Chairman*.
  - e. Department of Psychology — DR. DALING, *Chairman*.
  
2. Division of Language, Literature, and Arts —  
DR. RADIUS, *Chairman*.
  - a. Department of Classical Languages — DR. RADIUS, *Chairman*.
  - b. Department of English — DR. TIMMERMAN, *Chairman*.
  - c. Department of Modern Languages — DR. FRIDSMA, *Chairman*.
  - d. Department of Music — PROF. SWETS, *Chairman*.
  - e. Department of Speech — ASST. PROF. BERGHUIS, *Acting Chairman*.
  
3. Division of Natural Science and Mathematics —  
DR. DIRKSE, *Chairman*.
  - a. Department of Biology — DR. TEN BROEK, *Acting Chairman*.
  - b. Department of Chemistry and Physics — DR. DIRKSE, *Chairman*.
  - c. Department of Engineering — PROF. WASSINK, *Chairman*.
  - d. Department of Mathematics — ASSOC. PROF. TULS, *Acting Chairman*.
  
4. Division of Social Science — DR. IPPEL, *Chairman*.
  - a. Department of Economics and Sociology — DR. VANDEN BERG, *Chairman*.
  - b. Department of History and Political Science — DR. IPPEL, *Chairman*.

# The College

## History

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

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

Although the doors had now been opened for the admission of other than theological students, for reasons now quite obvious none sought admission to the preparatory school. The curriculum of the Literary Department was heavily weighted with courses in languages, such as Dutch, German, Latin, Greek, and even Hebrew. Such a program did not appeal to the non-theological student. Consequently in 1900, the literary or preparatory course was liberalized and broadened, and students interested in teaching or preparing themselves for pre-professional courses in the universities soon began to fill the 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 had been added. In 1906, the Literary Department, now consisting of four years of preparatory and two years of college work, became known officially as the John Calvin Junior College. Four years later, in 1910, a seventh year was added and, by 1920, the Junior College had become a full-grown, four-year liberal arts college and had assumed the name, Calvin College. Its first president was appointed in 1919, and the Bachelor of Arts degree was first awarded in June, 1921. The college curriculum was broadened to meet the needs of the increasing number of young men

and women who sought permission to enroll as students. The faculty likewise was enlarged so that in this year of 1960 it has 98 full-time members. Graduates of Calvin are accepted at leading graduate and professional schools in the United States.

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

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

Between 1920 and 1940 the student body had increased fourfold. Then came the tidal wave of enrollments, so that today over 2,000 young men and women are taking advantage of the educational programs which Calvin offers.

### **Aim and Purpose**

Calvin College is a church-related College, existing under the auspices of the Christian Reformed Church, a Protestant denomination which has adopted as its standards the Belgic Confession, the Heidelberg Catechism and the Canons of 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 both ministers 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, the regional accrediting agency of this area. It is on the approved list of the University of Michigan, the Department of Public Instruction of the State of Michigan, and the State Education Department of the State of New York. Courses completed at Calvin are accepted by other colleges and universities, and graduates of the college, in general, may expect admission to full graduate standing in standard universities. Calvin College is a member of the Association of American Colleges.

### **The Summer 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.

## ADMISSION

### 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 payable to the College Entrance Examination Board. 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 classwork of their secondary school. During the academic year 1961-1962, the Scholastic Aptitude Test of the College Entrance Examination Board will be given on the following dates:

Saturday, December 2, 1961

Saturday, May 19, 1962

Saturday, January 13, 1962

Wednesday, August 8, 1962

Saturday, March 3, 1962

Requiring this test will have the advantage of supplying the college with 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 direct with the College Board authorities. Students 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. Students living in New Mexico, Colorado, Wyoming, and Montana and other states to the West and students living in the Province of Manitoba, Canada and other provinces to the West, should address their inquiries to the College Entrance Examination Board, Box 27896, Los Angeles 27, California. Requests to take this test shall, 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 desirable for the applicant to take the test early enough to enable the college to have the scores at the time his application is considered. To make this possible, the applicant should, if possible, arrange to take the test in December or January.

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

### Application for Admission or Readmission

Students seeking admission for the first semester must submit all of their application data to the Office of Admissions by August 1. Those seeking admission for the second semester must submit all of their

application data by January 1. No application postmarked after these dates will be processed unless accompanied by a ten-dollar late application fee. Since the applications must be made on the forms provided by the college, the applicant should send for these early. The forms referred to include:

- Application for admission
- Applicant's personal record
- Transcript of high school record
- Recommendation of pastor
- Health record
- Consistory recommendation (for pre-seminary students only)

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.

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 a student is granted admission, he will also be assigned his permanent student number. Students 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.

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.

A student who withdraws from college and later wishes to re-enroll should make formal application on a re-admission form provided by the college.

### **Freshman Standing**

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

#### **PLAN A**

1. The applicant for admission must submit a certificate from an accredited school.
2. Amount of work. This certificate must testify to the satisfactory completion of 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:

Adv. 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 Registrar, however, has the right to reject such credits as the institution considers undesirable. One unit of foreign language may be offered under this group ..... 5

Total ..... 15

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

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

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

## 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)
Latin	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
Latin	2 units (or another Foreign Language)
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
Latin	2 units (or another Foreign Language)
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.

**PLAN B. ADMISSION BY EXAMINATION.** Applicants who are unable to furnish approved certificates, and who are therefore unable to meet the first requirement of Plan A, may be admitted if, by passing examinations satisfactorily, they can meet the other requirements of Plan A. 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 War Veterans**

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

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

### **Admission of Foreign Students**

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

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

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

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

### Advanced Standing

Advanced standing (in other words, college credit) is granted in the following cases:

1. When the applicant submits from an accredited college, junior college, or college of education, a certificate of honorable dismissal and a transcript of the studies pursued. However, no applicant is allowed more than sixteen hours of credit for each semester of work taken at another recognized institution. No more than 70 semester hours of advanced credit will be allowed for work taken at an accredited junior college.

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

3. When the applicant submits from an accredited high school, in excess of sixteen units for admission, credits in 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.

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

Admission to advanced standing does not excuse the student from meeting the specified requirements for graduation from Calvin College. For example, students entering as Sophomores in the General College course must, for graduation, earn 188 honor points; those entering as Juniors, 125 honor points; those entering as Seniors, 62 honor points.

All advanced standing is subject to revision at the end of the first year of residence.

Students expecting advanced standing for work done at other institutions should bring full credentials, and should at the time of entrance consult the Registrar of the College.

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

### **Exchange of Credits Between College and Seminary**

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

2. College students may be permitted to enroll in such seminary courses as the Seminary permits them to take and as the 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.

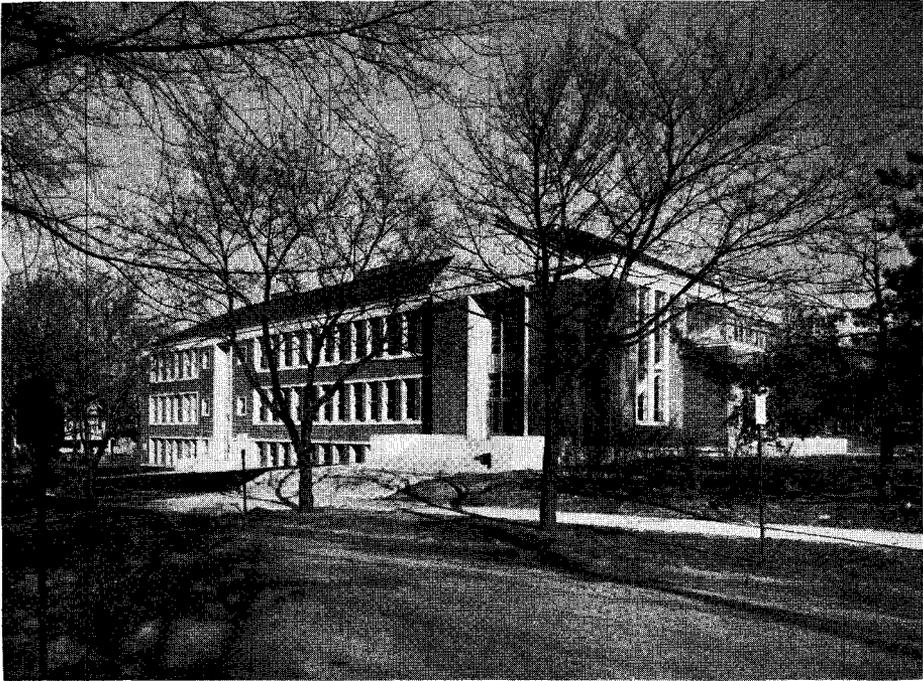
4. A student enrolled in the Seminary may be given permission to take courses in the College for seminary credit, that is, for credit to be transferred to the Seminary, provided he has received the permission of the Registrar of the Seminary, the Registrar of the College, and the professor whose course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

### **Unclassified Students**

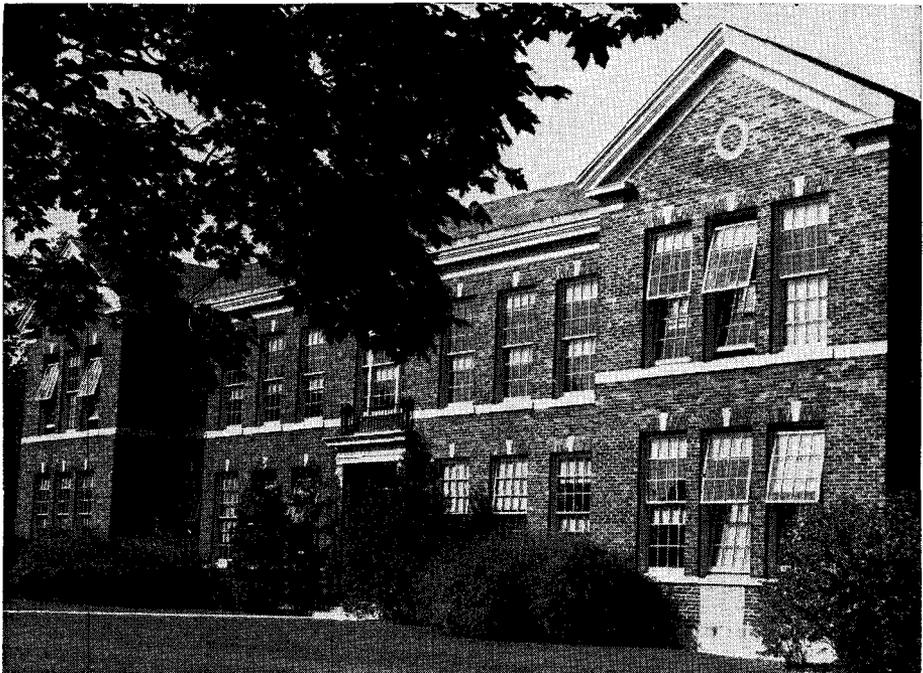
Applicants for admission who are not candidates for graduation may be enrolled for such studies as their preparation qualifies them to pursue with profit. Such applicants should consult the Registrar of the College regarding arrangements.



CALVIN COLLEGE  
AND SEMINARY  
FOUNDED 1876  
CLASS OF 1943



SCIENCE BUILDING



HEKMAN CLASSROOM BUILDING

## STUDENT EXPENSES

### Tuition Rates

The semester tuition rate, which includes a \$6.00 organization fee, a \$5 student center fee, a \$2.50 health service fee, and laboratory fees, is \$320.

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. The rate for the various categories:

<i>Local Zone</i> (within 10 miles of Calvin College Campus) .....	\$250
<i>Zones 1, 2, and 3</i> (extending up to 300 miles from Grand Rapids) ..	200
<i>Zones 4 and 5</i> (from 300 to 1,000 miles from Grand Rapids) .....	170
<i>Zones 6, 7, and 8</i> (more than 1,000 miles from Grand Rapids) .....	130
<i>Manitoba, Ontario, and Quebec Provinces of Canada</i> .....	170
<i>Alberta, British Columbia, and Saskatchewan Provinces</i> .....	130

### 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 \$20 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 until he has resided in the local zone for two semesters.

### SPECIAL PROVISIONS FOR ALL STUDENTS

1. Students taking in excess of 18 semester hours will be charged \$12 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 \$25 for each semester hour, except that in the case of those who are members of the Christian Reformed Church it is \$20 per semester hour. For those taking less than 10 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

semester completed. For the purpose of this computation, a partial week shall be treated as a full week. There will be no reduction in the semester rate for a student who discontinues after the end of the twelfth week.

#### SUMMER SESSION

The summer session tuition rate is \$16 per semester hour. For students who are affiliated with the Christian Reformed Church and whose residence is in the State of Michigan, the fee is \$14 per semester hour. For students who are affiliated with the Christian Reformed Church and whose residence is outside of the State of Michigan, the fee is \$11 per semester hour. The fee for auditing is one-half of the respective hourly fee. A matriculation fee of \$5 is charged for the first enrollment only.

#### Fees

*Late Application Fee* — A fee of \$10 will be charged for late application. (See page 27.)

*Late Registration Fee* — A fee of \$10 will be charged for late registration.

*Auditing Fee* — The fee for students who are not enrolled full time is one-half the regular hourly charge. (Also see page 54.)

*Chemistry Laboratory Breakage Fee* — The student is required to make a deposit at the time of registration, against which breakage of equipment will be charged.

*Directed Teaching Fee* — In addition to the regular tuition charge for credit hours received, a fee of \$10 per semester is assessed for Directed Teaching.

*Individual Lessons Fee* — In addition to the regular tuition charge for credit hours received the fee for individual instruction in voice, piano, organ, and orchestral or band instruments is \$45 per semester (15 lessons). The fee for use of the organ for practice is \$15 per semester.

*Graduation Fee* — The general graduation fee, including diploma, is \$10. The charge for a second diploma on the combined curriculum or similar program is \$5.

#### *Transcript Fee* —

a. Each student or alumnus shall receive one free transcript of his academic record.

b. Each additional transcript shall be issued at a charge of \$1.

c. When two or more subsequent transcripts (after the first free copy) are issued *at the same time*, there will be a charge of \$1 for the first copy and 25 cents for each additional copy.

d. When additional credits have been earned, a free supplement will be sent, upon request, to the same address as a previous transcript.

*Special Examination Fee* — A fee of \$3 is charged for each special examination which is administered at the request of the Dean of the Faculty.

### **Tuition and Fee Payment**

It is recommended that tuition and fees be paid in full at the time of registration. A payment of at least \$50 must be made before enrollment is completed. The balance of all tuition and fees should be paid by November 15 of the first semester and by April 1 of the second semester. Accounts not paid by these dates are subject to a \$2 Deferred Payment Fee.

### **Living Expenses**

Living expenses, including board, room, rent, fuel, light, laundry, and textbooks are from \$1,000 up per year.

## **HOUSING**

### **Housing and Board for Men**

Some out-of-town men students are accommodated in the campus dormitory. Others are housed in private homes in the vicinity of the College. The cost per semester in the dormitory, including meals at the Commons, is about \$350.

Men living in the dormitory need not furnish their own towels, sheets, pillow cases, or blankets. These will be furnished by the College.

The office of the Dean of Men keeps on file a list of approved rooming places in the community. The cost of these rooms ranges from \$5 to \$6 per week per person. Out-of-town men students must stay in the dormitory or in a home on the approved list. If the place at which they desire to stay is not on the approved list, they must obtain approval from the Dean of Men before renting the room. Rooming places may be selected during the summer or immediately upon arrival in Grand Rapids for registration. Dormitory application blanks may be obtained by writing to the Dean of Men. Men living in private homes usually eat in the Commons where the cost of food is \$216 per semester.

### **Housing and Board for Women**

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

The College operates eleven guild homes in the southeast section of the city. These provide housing for freshman women students. These homes are under the direct control of the Dean of Women and each is under the personal supervision of a housemother and student counselors. Each student works out part of her room and board. Net expenses per semester are about \$125 for room and \$216 per semester for meals. Ap-

plication for admission to these homes should be made with the Dean of Women.

Women living in college residence halls need not furnish their own towels, sheets, pillow cases. These will be furnished by the College. Blankets must be furnished by the student.

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

Admission to residence halls is regarded by the college authorities not as a right, but as a privilege which may be withheld or withdrawn from any student whose presence there may not be considered desirable.

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

### **Apartments**

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

### **Payment of Room and Board**

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

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

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

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

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

## SCHOLARSHIPS, AWARDS AND PRIZES

### For Undergraduates

**Freshman Scholarship — Christian High School Graduates.** Each year Calvin College offers a scholarship, consisting of \$150 per semester for two semesters to a member of the graduating class in each of the accredited Christian High Schools of America supported by our constituency, who is recommended thereto by the faculty of that school, in accordance with the following conditions:

1. (a) The Faculty of Calvin College will select and appoint the winner.  
(b) If, in the opinion of the Faculty of Calvin College, no suitable candidate is available, no award shall be made in that particular year.  
(c) The Faculty always reserves the right, for reasons of its own, to reject any candidate who may be recommended for this scholarship.
2. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth. Only students of high scholarship rank who may be expected to maintain a good record in college should be nominated by the high school faculty.
3. The recipient should expect to complete a three or four-year course at Calvin.
4. The recipient must have fulfilled regular college admission requirements.
5. The recipient should have been in residence at the high school from which he graduates for at least his junior and senior years.
6. Applications should be in the hands of the Chairman of the Scholarship Committee not later than April 1.
7. The applicant must take the College Entrance Examination Board Scholastic Aptitude Test in December or January to permit the College to receive the test scores no later than April 1.

**Freshman Scholarship — Pre-Nursing Scholarship, Christian High School Graduates.** Each year Calvin College offers a scholarship, consisting of \$150 per semester for two semesters, to a member of a graduating class in one of the accredited Christian High Schools in the United States or Canada supported by our constituency, who is recommended thereto by the faculty of that school and who desires to enter the one-year pre-nursing course, in accordance with all of the conditions stipulated above under Freshman Scholarship — Christian High School Graduates, except number 3.

**Freshman Scholarship — Public High School Graduates.**

Calvin College offers a scholarship consisting of \$150 per semester for two semesters to a member of the graduating class in each of *five* accredited public schools of the United States and *two* in Canada, provided:

1. The applicant is a member of the Christian Reformed Church.
2. The applicant can give evidence that he or she was unable, because of lack of opportunity, to attend a Christian high school. Reasons for not attending a Christian high school should be explained.
3. The applicant is recommended for the scholarship by the faculty of the high school in accordance with the same conditions as are listed above under Freshman Scholarship—Christian High School Graduates.
4. Applications should be in the hands of the Chairman of the Scholarship Committee not later than April 1.
5. The applicant must take the College Entrance Examination Board Scholastic Aptitude Test in December or January to permit the College to receive the test scores no later than April 1.

**Freshman Scholarship — Pre-Nursing Scholarship, Public High School Graduates.** Each year Calvin College offers a scholarship, consisting of \$150 per semester for two semesters, to a member of the graduating class of an accredited public high school in the United States or Canada who desires to enter the one-year pre-nursing course, provided the applicant meets all of the conditions stipulated above under Freshman Scholarship — Public High School Graduates.

**Freshman Scholarship — Certificate of Merit award winners.**

Calvin College offers a scholarship of \$150 per semester for two semesters to each high school graduate who wins a National Merit Scholarship Corporation Certificate of Merit. The winner of such an award who seeks to qualify for the scholarship must notify the Chairman of the Scholarship Committee no later than April 1 of the year in which he is applying for admission that he has received the award.

The scholarship is awarded only provided:

1. The applicant fulfills the regular college admission requirements.
2. The applicant expects to complete a three or four-year course at Calvin.
3. The applicant is recommended for the scholarship by his high school principal or by his pastor if he is not a graduate of a Christian high school.
4. The applicant presents a copy of the certificate to the Scholarship Committee.
5. The applicant is a member of the Christian Reformed Church.

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

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

**Junior Scholarship** — Calvin College Sophomores

Each year Calvin College offers a scholarship consisting of \$150 per semester for two semesters to each of two members of the sophomore class of Calvin College who have been recommended thereto by the Faculty of Calvin College, in accordance with the following conditions:

1. (a) The Faculty of Calvin College will select and appoint the winners.
- (b) If, in the opinion of the Faculty, no suitable candidate is available, no award will be made in that particular year; or, if only one suitable candidate is available, only one award will be made.
- (c) The Faculty always reserves the right, for reasons of its own, to reject any candidate who may be recommended for this scholarship.
2. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth. Only students of high scholarship rank who may be expected to maintain a good record in senior college should be nominated.
3. The recipients should expect to complete a four-year course at Calvin College.
4. The recipients should have been in residence for both the Freshman and Sophomore years at Calvin College.
5. Recommendations should be in the hands of the Chairman of the Scholarship Committee not later than April 1.

**Dordt and Trinity Colleges Scholarship** — Junior College Graduates.

Each year Calvin College offers a scholarship consisting of \$150 per semester for two semesters to a member of the sophomore class in both Dordt College of Sioux Center, Iowa, and Trinity College of

Chicago, Illinois, who is recommended thereto by the faculty of his College, in accordance with the following conditions:

1. (a) The Faculty of Calvin College will select and appoint the winner.  
(b) If, in the opinion of the Faculty of Calvin College, no suitable candidate is available, no award will be made in that particular year.  
(c) The Faculty of Calvin College reserves the right, for reasons of its own, to reject any candidate who may be recommended for this scholarship.
2. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth. Only students of high scholarship rank who may be expected to maintain a good record in senior college should be nominated by the Junior College Faculty.
3. The recipient should expect to complete a four-year course at Calvin College.
4. The recipient should have been in residence at the junior college by which he was recommended, for both the Freshman and Sophomore years.
5. Recommendations should be in the hands of the Chairman of the Scholarship Committee not later than April 1.

**The Johnson Foundation Scholarship** — The Johnson Foundation, established by S. C. Johnson & Son, Inc. of Racine, Wisconsin, has presented to Calvin College the sum of \$1,000 to provide support for undergraduate students majoring in chemistry. The scholarship consists of a grant of \$500 a year for each of two years. Decisions relating to the award, such as selection of the winner, the class year of the student and other eligibility rules shall be determined by the faculty members of the department of Chemistry.

**Detroit Edison Company Scholarship** — The Detroit Edison Company offers a scholarship of \$300 annually to be awarded to a high school graduate whose residence is in the area served by the Detroit Edison Company. The scholarship is awarded on the basis of scholastic record, character and personality, citizenship, extra-curricular activity, seriousness of purpose, and financial need.

Application blanks may be obtained from the Chairman of the Scholarship Committee of Calvin College on or before April 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 may be made with the Chairman of the Scholarship Committee on or before April 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 institutional cost of educating the student in 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.

**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 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 him.

6. This scholarship or grant-in-aid may be for either Freshmen or upper classmen.
7. The recipient of this scholarship should expect to complete his course at Calvin College.

**George M. Pullman Educational Foundation** — 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 March 1. The application deadline for current undergraduate students is April 15. Inquiries should be addressed to Mr. Graham R. Taylor, Educational Director, George M. Pullman Educational Foundation, 168 North Michigan Avenue, Chicago 1, Illinois. High school seniors should also obtain information about application procedures from high school placement officials. 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 well before March 1 of the senior year of high school.

**Alumni College - Faculty Memorial Award** — The Alumni Association annually offers a scholarship in memory of deceased College Faculty members. The stipend is \$100 and is to be applied toward tuition. A Sophomore who in his freshman year has shown himself deserving is selected for this award by the executive committee of the Alumni Association. The conditions are as follows:

1. The recommendation shall be on the basis of scholarship, Christian character, personality, and promise of growth.
2. The recipient should expect to complete his college work at Calvin College.
3. If, in the opinion of the Faculty, no suitable candidate is available, no award shall be made in that particular year.

**Summer School Scholarship** — Eleven 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 1961. The National Union and Calvin College each contribute \$1,100 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, write directly to the Director of Scholarships, National Union of Christian Schools, 865 - 28th Street, S.E., Grand Rapids, Michigan.

Application must be made by February 1.

**Young Calvinist Federation Oratorical Contest Tuition Awards** — THE BERGSMAN BROTHERS FOUNDATION of Grand Rapids, Michigan, grants tuition awards to two contestants in the National Oratorical Contest held at the Annual Convention of the Young Calvinist Federation.

Each "first place" of the young men's and the young women's contest receives a two-semester tuition award.

Contestants must be members of a Young Calvinist Society which is affiliated with the Young Calvinist Federation. He must participate in League and District run-offs as specified in the regulations. In case the winner is not eligible to enter college, the award is kept in trust up to three years. Schooling of contestants may not exceed High School. If the first place winner does not plan to enter Calvin College, the award is granted to the next ranking contestant. Send for complete details to The Young Calvinist Federation, 2365 Nelson Avenue, S.E., Grand Rapids, Michigan.

**Oratorio Society Tuition Awards in Music** — Five College tuition awards of \$200 each are presented by the Calvin College Oratorio Society. These awards are limited to four instrumentalists and one vocalist, who can meet College admission requirements, and have records of superior achievement in high school music activities. Recipients must

maintain a C average for both semesters and will be expected to participate in the scheduled rehearsals and performances of at least one of the following: Calvin College Band, Orchestra, and Chamber Music Ensembles, or Choir.

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

**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 the first semester. Only Freshmen are eligible. Applicants will be judged on the basis of evidence of talent and financial need. Applications for this award should be made with the Chairman of the Music Department on or before August 1.

**The Beets Calvinism Prize** — The late Dr. and Mrs. Henry Beets presented the College with \$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 Calvin College students. The prize will be awarded at the discretion of the professor holding the chair of Calvinism, in consultation with the President of Calvin College, provided that if during any given year the professor named above does not consider the essays or papers submitted of sufficient merit to deserve the prize, the interest of such a year, or years, be added to the principal.

**Broodman Oratorical Awards** — Through the generosity of the Dr. G. J. Broodman family of Grand Rapids, Michigan, gold, silver, and bronze medals are given annually to the winners of the first, 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 held in March of each year.

**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 held in March of each year.

**The Rinck Memorial Award** — A fund of \$1,100 has been subscribed by former students and friends of the late William Rinck, Professor of Mathematics at Calvin College, 1905 to 1920, the income of which is

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.

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

**Jewish Evangelization Prize** — Dr. and Mrs. William J. Yonker, for the year 1961-62 offer a prize of \$100 for the best essay and a prize of \$30 for the second best essay on a subject bearing on the Evangelization of the Jews. The contest is open to all College students.

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

Under the terms of the foundation three awards

1st: \$35      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.

**Zondervan Peace Oratorical Awards** — Through the generosity of the Zondervan Publishing Company of Grand Rapids, Michigan, credit vouchers for the purchase of books are awarded annually to the first, second, and third place winners in both the men's and the women's divisions of the Peace Oratorical Contest. In each division the winners of the first, second, and third places are awarded credit vouchers of \$25, \$10, and \$5, respectively. The first place winners of each division represent Calvin at the annual State of Michigan Peace Oratorical 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.

**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.

**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 and present its recommendation to the Scholarship Committee.

**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.

**Zondervan Peace Extempore Awards** — The Zondervan Publishing Company annually awards credit vouchers for the purchase of books to the first, second, and third place winners in both the men's and women's divisions of the Peace Extempore Contest. In each division the winners of the 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 of Michigan Peace Extempore Contest.

## Awards 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 award, made annually to a pre-medical student. The award shall normally be made to a graduate of the four-year pre-medical course. The candidate need not necessarily be a graduate of the pre-medical course in the year in which the award is granted.

“Out of the income received from said property there shall be paid, each year for fifteen (15) consecutive years, [beginning September, 1952] a scholarship of \$400 to such male student who has taken his pre-medical work at CALVIN COLLEGE AND SEMINARY and shall be selected by the Board of Trustees thereof, said payment to be made to him upon his matriculation at an accredited medical college which awards the degree of Doctor of Medicine.”

Students interested should apply with the Chairman of the Scholarship Committee before April 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 the ministry in the Christian Reformed Church in the fall of the year immediately following his graduation from Calvin Seminary.

Applications should be in the hands of the Chairman of the Scholarship Committee on or before April 1.

**The Dewey and Hattie Battjes Foundation Scholarship**—Mrs. Dewey Battjes and her children, through the Battjes Foundation, have offered to award a scholarship, in the year 1961-1962, to a student entering Calvin Seminary. To receive consideration, a student must have been in residence in Calvin College as a pre-seminary student for not less than the last three years preceding graduation, though exception may be made for a Calvin College graduate who has spent his first two years in a Christian Junior College supported by our own Christian Reformed constituency.

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

**University of Michigan State Colleges Fellowship** — By action of the Board of Regents, each of the faculties of the accredited Colleges of the State of Michigan is authorized to nominate annually to the Executive Board of the Graduate School some member of the graduating class, or some one of its graduates of not more than four years' standing, as a suitable candidate for a State College Fellowship. In each case an alternate may be nominated. All nominations are sent by the College to the Dean of the Graduate School not later than February 15 preceding the academic year for which the recommendation is made; accompanying each should be an official record of the candidate's undergraduate work and three letters of recommendation. The stipend is \$1,600 for two semesters of full-time work.

Students wishing to make application for this fellowship should consult the Chairman of the Scholarship Committee of Calvin College not later than January 15.

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

Eligibility requirements:

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

Students interested should confer with the College Fulbright Adviser.

## **STUDENT AID SERVICE**

### **Student Loan Fund**

Students in need of financial assistance to meet tuition, room, or board obligations may apply at the Dean of Men's Office for a student loan. The following types of loans are available:

- A. Emergency Loans for amounts up to \$50, available from the Dean of Women or the Dean of Men.
- B. Short-term Loans, with repayment during the following summer.
- C. National Defense Education Act of 1958 Loans.

For further information regarding "B" or "C," contact the Dean of Men.

### **Teacher Placement Bureau**

*The Placement Bureau* was established some years ago for the purpose of assisting prospective teachers, graduates of Calvin College, in securing teaching positions. This bureau keeps on file a list, both of vacancies in the teaching forces in our Christian Schools throughout the country, and of graduates who desire to teach. All correspondence for the Bureau should be addressed to: Placement Bureau, Calvin College. There is no charge for these services.

### **Graduate Placement Bureau**

Arrangements are made each spring semester for interviews with prospective employers. Notices of the companies scheduled to be on campus are posted on the Bulletin Board in the corridor outside the Student Personnel Office.

### **Student Employment Service**

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

### **Student Health Insurance**

There is available to all students a Group Accident and Sickness Expense Protection Plan. The premium cost, only \$16.00 for twelve months, 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. Detailed information is available at the Business Office.

## ADMINISTRATION

### Religious Culture

In accord with its specific aim and with its belief that this aim cannot be attained unless the religious side of the student's life receives due attention, the College makes religious instruction, either doctrinal or historical, compulsory for all classes of students. Ten hours of such religious instruction must be taken during the four college years in accordance with a set program.

Devotional exercises are held daily, including Saturday. All students are required to attend devotional exercises at times assigned to them.

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

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

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

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

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

### The Hekman Memorial Library

The library contains more than 100,000 volumes, to which about 7,000 are added yearly. More than 800 different periodicals are received. The recently enlarged building and Annex provides seating for some 300 students. The library houses the Cayvan Collection of 8,500 phonograph records. The library is open from 7:45 a.m. to 11:00 p.m., Monday

through Friday, and from 7:45 a.m. to 5:00 p.m. on Saturday, during the school year. Vacation hours are from 8:00 a.m. to 5:00 p.m., Monday through Friday.

### **The Required Physical Education Program**

#### *Requirement*

Physical education is a requirement for all freshman and sophomore students. Men students must take required physical education for three semesters of their first two years' residence at Calvin College. Women students must complete two semesters of physical education during their first two years of residence. All classes meet twice a week.

The men's requirement includes a semester in Foundations, a semester in Team Sports, and a semester in Individual Sports. The requirement for women consists of one semester of Team Sports and one semester of Individual Sports. (see p. 103 for Courses)

#### *Credit*

All students must meet the physical education requirement to graduate. Failure to meet this requirement will result in the withholding of transcript 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 physical education average of "C" or better. This average is based on ability, progress, attitude, attendance, and skill plus written tests.

#### *Exemptions*

Veterans and older students may be exempt from physical education only after consultation with the chairmen of the department of physical education. This exemption does not apply to 6-month reserves.

Medical excuses will be accepted only from a physician of the Calvin Health Service. Upon consultation with him some students may be placed in restricted activities according to ability and need.

Varsity athletes at Calvin are required to take two semesters of required physical education during their first two residence years.

#### *Equipment, uniforms, lockers*

Equipment for activities will be supplied by the College.

Students enrolled in the instructional courses are required to buy a standard uniform. These can be purchased through the physical education office.

Lockers are available for all students. A \$5 deposit is necessary in securing a locker and will be returned at the end of the school year if all articles are intact.

### Health Center

The College provides limited health and medical service for all students. The fee for this service is incorporated in the tuition charge. The Health Center is located on the ground floor of the Dormitory Building. Its facilities consist of examination room, dispensary, men's sick bay, and women's sick bay. The health service is staffed by the Campus Nurse and by the Campus Physicians. The former is on full-time duty; the latter will schedule 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.

### 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.

### Grades and Honor Points

Report cards are sent out at the end of each semester. In grading the work of students during the years previous to September 1, 1957, the following honor points were assigned to the various grades:

GRADE	INTERPRETATION	EQUIVALENT HONOR POINTS
A	Excellent	3
B	Good or very good	2
C	Graduation average	1
D	Unsatisfactory; just passable	0
E	Condition, which may be removed by re-examination	Minus 1
F	Failure	Minus 2
I	Work not completed	
X	Absent from examination	

Beginning with the school year, September 1957, a revised system of equivalent honor points was adopted, as follows:

GRADE	INTERPRETATION	EQUIVALENT HONOR POINTS
A	Excellent	4
B	Good to very good	3
C	Graduation average	2
D	Unsatisfactory; just passable	1
F	Failure	0
I	Work not completed	0
X	Absent from examination	

To meet graduation requirements the student must satisfactorily complete 125 hours of credit and must have earned a "C" average on the

total number of hours for which he was registered. Honor points are computed on the basis of registered hours.

It will be observed that the grade of E, "condition," has been eliminated.

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

If a student is absent from a final examination the grade X will 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.

### **Incompletes**

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.

### **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 without the permission of the Dean of the Faculty and the Registrar.

### **Schedule Changes**

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

### **Dropping and Changing of Courses**

After the second week of classes no student may drop or add a subject without the approval of his 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. If a student has not previously registered he must pay a matriculation fee of \$5.

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 office.

### **Dismissal**

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

### **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 Men or the Dean of Women.

### **Use of Automobiles**

Automobiles owned or operated by Calvin students must be properly registered with the College and carry an official college automobile permit, and 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 not permitted to park on campus on school days before 4:30 p.m. The College maintains a parking lot east of the campus on Franklin Street for students' use. 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.

## REQUIREMENTS FOR GRADUATION

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

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

All full-time students registered at Calvin College are required to take courses in Bible. Students in residence for a full year are required to complete 4 semester hours; those in residence for two years at least 6 semester hours; those in residence three full years at least 8 semester hours; those in residence four years at least 10 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 DESCRIPTION OF COURSES.

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

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

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.

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

### BACHELOR OF ARTS - GENERAL COURSE

The requirements for the Bachelor of Arts - General 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 OF WORK.** The student must complete 125 hours of work.
2. **GRADE OF WORK.** The student must secure a total of 250 honor points for the 125 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours.
3. **PRESCRIBED WORK.** Of the 125 hours required, the following are prescribed:

	<i>Hours</i>
Bible 105, 106, 201, 202, 301	10
English 103, 104	6
History (101, 102 for entering Freshmen)	6
Philosophy (including Logic)	9
Natural Science: Biology 101, 102, and Physical Science 205, 206	12
Foreign Language	(see following explanation)
Physical Education	(See page 51.)

### 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.
- c. The student is advised to make his choice of foreign language, in consultation with the Registrar of the College, who, in exceptional cases, may approve a deviation from any or all the above rules.
- d. The foreign language requirements must be completed by the end of the sophomore year.

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

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

- Group II. Biology, Chemistry, Geography, Mathematics, Physics, Psychology.
- Group III. Bible, Economics, Education, History, Philosophy, Political Science, Sociology.

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

- 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 Description of Courses.
- b. At least 12 semester hours (15 semester hours for a Teacher's Certificate) 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 (15 semester hours for a teacher's certificate). This constitutes a second minor.

The student who elects 15 semester hours in each of his two minors, and the required 24 semester hours for a major, is eligible for a provisional certificate and the General A.B. degree (see also paragraph 6).

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

5. 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.

6. STATE PROVISIONAL TEACHER'S CERTIFICATE. To be eligible for recommendation for a State Provisional Teacher's Certificate the student must on graduation meet the Michigan State Department of Public Instruction requirements for either the Elementary or Secondary Provisional Certificate. The minimum subject requirements stipulated by the Michigan State Department of Public Instruction are: Psychology 201-202; Education 203-204; Education 314 or 315; Education 343 or 344; and for the elementary certificate the required methods course(s).

Prospective high school teachers must arrange their programs so as to complete a major of 24 hours and two minors of 15 hours each. (See 2a under Education, p. 69.)

Beginning in 1961 the North Central Association will require at least 18 hours for a minor.

Prospective elementary school teachers must arrange their programs so as to complete either four minor sequences or a major and two minor sequences. (See 3a under Education, p. 70.)

Directed teaching must be taken at Calvin College to receive credit for graduation. This is in keeping with a general practice among colleges that student teaching must be taken at the institution where the degree is earned.

### Pre-Seminary

The student who completes the prescribed Pre-Seminary curriculum will have met all the requirements for a General College degree. He will have a major sequence in Greek (including Greek and Roman History) and minors in English, Modern Foreign Language, and Philosophy.

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

2. **GRADE OF WORK.** The student must secure a total of 250 honor points for the 125 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours. To receive, in addition, the faculty's recommendation for admission to Calvin Seminary, the student must obtain one and two-thirds as many honor points as hours of credit, effective as of September, 1954, and two and two-thirds as many honor points as hours of credit, effective beginning September 1957.

3. **PRESCRIBED WORK.** The following 117 hours of work are prescribed:

Bible 105, 106, 301, 311 .....	8	English 103, 104 and two of the	
Biology 101, 102 .....	6	following: 308, 309, 310, 329	12
*Dutch, French or German - The		French - See Dutch	
elementary and intermediate		German - See Dutch	
courses in one of these languages	14	†Greek 101, 102, 201, 202, 313,	
Economics, Political Science, or		314 .....	20
Sociology. Choice of a 6-hour		†History 101, 102, 311, 312.....	12
sequence:		‡Latin 207, 208 (Old number	
Economics 201, 202		307, 308) .....	6
Political Science 203, 204,		Philosophy 200 .....	3
or Sociology 203, 204		Philosophy 220, 301, 302 .....	9
Three hours in one of the two		Physical Science 205, 206 .....	6
fields not chosen for the 6-hour		Political Science - See Economics	
sequence. (In any case, the		Psychology 201 and either Psychol-	
student must elect 3 hours of		ogy 202 or Education 301 .....	6
Sociology.) .....	9	Sociology - See Economics	
Education - See Psychology		Speech 103, 104, 205 .....	6

\* The Seminary requires of all entering students a reading knowledge of Dutch, if such students contemplate entering the ministry of the Christian Reformed Church. Applicants for admission to the Seminary will be required to pass an Entrance Examination in Dutch Reading.

† Pre-Seminary students have the option of taking Greek 319-320 or History 311-312.

‡ The student who has not had the equivalent of first year college Latin in high school will have to make this up in college but may not count the credit which he earns in freshman Latin toward the 125 semester hours required for the degree. This provision will not go into effect until September 1962.

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 105 .....	2	Bible 106 .....	2
English 103 .....	3	English 104 .....	3
*Dutch, French or German 101 .....	4	Dutch, French or German 102 .....	4
History 101 .....	3	History 102 .....	3
Latin 207 .....	3	Latin 208 .....	3
	15		15

*Sophomore Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Biology 101 .....	3	Biology 102 .....	3
English (as prescribed) .....	3	English (as prescribed) .....	3
Greek 101 .....	4	Greek 102 .....	4
Dutch, French or German 201 .....	3	Dutch, French or German 202 .....	3
Speech 103 .....	2	Speech 104 .....	2
	15		15

*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Greek 201 .....	3	Greek 202 .....	3
Econ., Pol. Sci. or Soc. (as prescribed) .....	3	Econ., Pol. Sci. or Soc. (as prescribed) .....	3
Philosophy 200 .....	3	Philosophy 220 .....	3
Physical Science 205 .....	3	Physical Science 206 .....	3
Psychology 201 .....	3	Psychology 202 or Educ. 301 .....	3
Speech 205 .....	2	Elective .....	2
	17		17

*Senior Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 301 .....	2	Bible 311 .....	2
Econ., Pol. Sci. or Soc. (as prescribed) .....	3	Greek 314 .....	3
Greek 313 .....	3	History 312 or Greek 320 .....	3
History 311 or Greek 319 .....	3	Philosophy 302 .....	3
Philosophy 301 .....	3	Electives .....	3 or 4
Electives .....	2 or 3		14 or 15
	16 or 17		

\* If the student has had two years of a modern foreign language in high school, he may elect to take the second year of the same language in college. If he does this, he may take an elective in his sophomore year instead of a modern foreign language.

**Three-Year Pre-Medical and Pre-Dental**

(See note regarding Pre-Medical entrance requirements on page 29.)

1. **AMOUNT OF WORK.** The student must complete 94 hours of work.
2. **GRADE OF WORK.** The student must secure a total of 188 honor points for the 94 hours of work. In other words, he must obtain an

average grade of C. Honor points are computed on the basis of registered hours.

To obtain faculty recommendation for admission to a Class A medical school he must in the three years of residence obtain a total of 282 honor points, representing an average of B.

3. PRESCRIBED WORK. The following courses are prescribed:

*Freshman Year*

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

*Sophomore Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Biology 201 .....	4	Biology 208 .....	4
Chemistry 203 .....	5	Chemistry 204 .....	3
Foreign Language .....	4	Foreign Language .....	4
Physics 201 .....	4	Physics 202 .....	4
	17		15

*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 201 .....	2	Bible 202 .....	2
Bible 301 .....	2	Biology 306 .....	2
Biology 207 .....	3	Psych. 201 (or Biol. 311) ..	3 or 5
Biology 311 (or Psych. 201) 5 or 3		Chemistry 302 .....	4
Chemistry 301 .....	4	Elective .....	4
	16 or 14		15 or 17

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

One and one half units of Algebra in high school is a prerequisite for Trigonometry.

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

Students desiring to enter a medical school other than that of the University of Michigan should consult the catalog of the 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.

4. **DISTRIBUTION OF ELECTIVES.** For their electives students should choose such subjects as are required for admission to the medical or dental school which they expect to attend eventually.

5. **DIPLOMA AND DEGREE.** On satisfactorily completing this course with a record of not less than 219 (C+) honor points received in the required 94 hours, 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 after one year of successful work in a recognized medical or dental school.

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

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

2. **GRADE OF WORK.** The student must secure a total of 250 honor points for the 125 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours.

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

3. **PRESCRIBED WORK.**

a. The student must meet the prescribed course requirement as well as the major and minor group requirements for the General College A. B. course. If he has completed 60 or more hours in Group II he may elect to receive the degree of Bachelor of Science, general course, instead of the Bachelor of Arts.

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

4. **DISTRIBUTION OF ELECTIVES.** Not less than 12 hours of his elected courses over and above the courses prescribed under 3 (above), but including Philosophy, must be in Groups I and III. The student is urged to elect Biology 307 and Chemistry 204.

### Three-Year Pre-Law

(See note regarding Pre-Law entrance requirements on page 29.)

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

2. **GRADE OF WORK.** The student must secure a total of 188 honor points for the 94 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours. He must secure 282 honor points, representing an average of B, to warrant faculty recommendation to a Class A law school.

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

#### *Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 105 .....	2	Bible 106 .....	2
English 103 .....	3	English 104 .....	3
Mathematics or Science .....	3	Mathematics or Science .....	3
Political Science 203 .....	3	Philosophy 200, Logic .....	3
Psychology 201 .....	3	Political Science 204 .....	3
Speech .....	2	Speech .....	2
	16		16

#### *Sophomore Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 201 .....	2	Bible 202 .....	2
Economics 201 .....	3	Economics 202 .....	3
French or German .....	4	French or German .....	4
Hist. 313, Eng. Const. ....	3	Hist. 314, Eng. Const. ....	3
Political Science 205 .....	3	Political Science 206 .....	3
	15		15

#### *Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 301 .....	2	Economics 306 .....	4
Economics 305 .....	4	English .....	3
English .....	3	History 302 .....	3
History 301 .....	3	History 312 .....	3
Political Science 305 .....	3	Political Science 306 .....	3
	15		16

A student who has had French or German in high school may have his number of hours prescribed in College reduced by four hours for each of the first two units of high school work.

Since modern language requirements for admission into law schools vary widely, students are advised to consult the office with respect to them.

4. **DISTRIBUTION OF ELECTIVES.** For their electives students should choose such subjects as are required for admission to the law school which they expect eventually to attend.

5. **DIPLOMA AND DEGREE.** On satisfactorily completing this course with a record of not less than 219 (C+) honor points received in the required 94 hours, the student will be eligible for the degree of Bachelor of Arts on the combined curriculum plan in letters and law after one year of successful work in a recognized law school.

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

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.

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

### Pre-Engineering

(See note regarding Pre-Engineering entrance requirements on page 29.)

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

1. **AMOUNT OF WORK.** The student must complete 95 hours of work.

2. **GRADE OF WORK.** The student must secure a total of 190 honor points for the 95 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours.

3. **PRESCRIBED WORK.** Of the 95 hours required, the following are prescribed:

#### THREE-YEAR GENERAL PRE-ENGINEERING COURSE

##### *Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 105 .....	2	Bible 106 .....	2
Chemistry 103 .....	4	Chemistry 104 .....	4
Engineering 101 .....	3	Engineering 102 .....	3
English 103 .....	3	English 104 .....	3
Mathematics 103 .....	3	Mathematics 111 .....	4
	15		16

##### *Sophomore Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Economics 201 or 307 .....	3	Economics 202 or 203 .....	3
Engineering 205 .....	3	Speech 103 .....	2
Mathematics 112 .....	4	Mathematics 211 .....	5
Physics 203 .....	6	Physics 204 .....	6
	16		16

*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 301 .....	2	Engineering 304 .....	4
Engineering 301 .....	3	Engineering 306 .....	3
Mathematics 211 .....	5	English 202 or 204 .....	3
Philosophy 201 .....	3	Philosophy 202 .....	3
Physics 303 or Elective .....	3	Elective .....	3
	16		16

**THREE-YEAR CHEMICAL PRE-ENGINEERING COURSE***Freshman Year*

The same subjects as the three-year general Pre-Engineering course above, except that Chemistry 105 and 106 replaces Chemistry 103 and 104.

*Sophomore Year*

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

*Junior Year*

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

NOTE: Two units of Algebra credit will be required by September 1964 in addition to the present requirement of  $\frac{1}{2}$  unit of credit in Trigonometry. Deficiency in these entrance requirements delays the program.

4. **DIPLOMA AND DEGREE.** On satisfactorily completing either course with a record of not less than 237 (C+) honor points received in the required 95 hours, the student will be eligible for the degree of Bachelor of Science on the combined curriculum plan in science and engineering upon satisfactory completion of the requirements for a Bachelor of Science degree in engineering in a recognized engineering 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.

**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.

**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. 57). 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. 58). The student may elect to complete his minor group requirement 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.

### Major in Music

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

- a. The general course requirements as prescribed for either the General College Course (see p. 57) or the Education Course (see p. 68).
- b. Sufficient proficiency at the piano to pass a sight reading examination.
- c. Participation in at least one music ensemble (choir, band, or orchestra) each semester.
- d. The following courses in basic musicianship:
 

Music 103-104, 203-204 (Theory) .....	12 hours
Music 305-306 (History of Music) .....	6 hours
- e. The specific course requirements for one of the following five areas of concentration in music:
  1. MUSIC HISTORY AND LITERATURE
 

Advanced Courses in the History and Literature of Music .....	12 hours
*Applied Music .....	8 hours
Electives in Music .....	2-4 hours
  2. MUSIC THEORY
 

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

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

### 3. SOLO INSTRUMENT OR VOICE

†Applied Music (Private lessons in one instrument or voice) up to 16 hours  
Electives in Music .....6-8 hours

### 4. INSTRUMENTAL MUSIC EDUCATION

Music 315-316 (Arranging) ..... 6 hours

Music 313-314 (Conducting) ..... 2 hours

Music 213-214 and/or 215-216 (Band and/or Orchestra)  
(Participation in at least one each semester) ..... 8 hours

†Applied Music (Private lessons on the major instrument, of  
which at least four semesters are required) .....4-8 hours

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 (Methods of teaching) ..... 3 hours

Music 313-314 (Conducting) ..... 2 hours

Music 141-142 or equivalent (Piano) ..... 2 hours

Electives in Music .....3-5 hours

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

Candidates for the A.B. degree in the Education course, or for the A.B. degree in the General course with a Michigan State Teacher's certificate, must elect either the concentrate in Instrumental music or the concentrate in Vocal music.

Candidates for the A.B. degree in the General 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. 68) in addition to the requirements given under "a" through "e" (see p. 66).

Vocal Music Education Majors must take both 331 and 332.

Solo Instrumental Music Majors as well as Music History and Music Literature Majors must add to their present requirements:

a. Two semesters of voice.

b. Music 331 or 332.

### 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 222, or Music 331, or Music 332.

### Church Music

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

### 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.

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

### BACHELOR OF ARTS — EDUCATION

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

The requirements for those who seek a General College A.B. and a Michigan State Provisional Teacher's Certificate are given on page 58, Section 6.

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

1. *Amount and Grade of Work.* The student must complete 125 hours of work. He must secure a total of 250 honor points for the 125 hours of work. In other words, he must obtain an average grade of C. An average grade of C+ (2.33 honor points) is required of all students entering the course in Directed Teaching. Honor points are computed on the basis of registered hours.



### 3. Requirements for a Provisional Elementary Certificate:

a. Prospective elementary teachers have three options in the selection of majors and minors. A major field consists of 24 hours and a minor field of at least 15 hours.

- (1) A prospective elementary teacher may select four minors as follows:
  - (a) *English studies*: English Literature, Rhetoric, Speech, Reading.
  - (b) *Art studies*: Music, Fine Arts, Industrial Arts, Drawing.
  - (c) *Social studies*: Economics, History, Political Science, Sociology, Ethics.
  - (d) *Science studies*: Biology, Geography, Physics, Chemistry, Mathematics, Physical Science, Psychology (not Psychology 202).
- (2) A prospective elementary teacher may select a major and two minors from any three of the above fields. If Art studies is not selected as one of the three, the prospective elementary teacher must also take a three-hour course in Art and a three-hour course in Music.
- (3) A prospective teacher may select a major and two minors from any of the subject matter areas suggested for students who are meeting the requirements for a Provisional Secondary Certificate. Two of the subjects taken for major and minors must be in subjects taught in the elementary school.

The Michigan Department of Public Instruction does not consider Bible as a major or minor for a teacher's certificate.

#### b. Subject requirements:

	<i>Hours</i>
(1) Bible 105-106, 201-202, 301 .....	10
(2) Biology 101-102 .....	6
(3) English 103-104 .....	6
(4) History .....	6
(5) Psychology 201 .....	3
(6) Speech .....	2
(7) Foreign language, 4 semesters of one foreign language.	

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

For the purpose of evaluating high school credit in a foreign language, one year of foreign language in high school will be regarded as the equivalent of one semester in College. The student is advised to make his choice of a foreign language in consultation with the Registrar of the College.

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

- (8) Professional course sequence ..... **23 hours**  
 Students working toward an Elementary Provisional Certificate should observe the following sequence:
 

Sophomore year	- Psychology 201
	Education 203-204
	Psychology 202
Junior year	- Education 315
	Education 220 (for intermediate grades)
	Education 322
Senior year	- Education 343

 Additional courses that will fortify the student for teaching in the elementary schools.

c. **Prerequisite for Education 343 (Directed Teaching):**

- (1) A minimum of 90 semester hours of college credit.
- (2) An academic average of C plus (2.33) or higher.
- (3) The professional sequence of courses. (See b, 8 above.)
- (4) Students taking Directed Teaching must obtain a statement indicating acceptable performance in manuscript, cursive, and blackboard writing, plus information about modern trends in teaching penmanship. (For this statement see Miss Van Laar.)

4. *The Michigan State Department of Public Instruction* grants Provisional Certificates to graduates who have met all the requirements of this course. These certificates are valid for five years and may be converted into Permanent Certificates, provided:

- a. The applicants have taught successfully for three years.
- b. They have earned 10 additional semester hours of credit.

5. *Responsibility for the Conversion of a Provisional Certificate* to a Permanent Certificate rests with the teachers, not with Calvin College.

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**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.

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**Nursing Course**

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 at the College. The courses listed below are given during this period.

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Bible 105 .....	2	Biology 106 .....	3
Biology 105 .....	3	English 104 .....	3
English 103 .....	3	Psychology 201 .....	3
Chemistry 101 .....	4	Nutrition .....	3
Nursing Arts including Hygiene (Hospital) .....	(2)	Pharmacology .....	1
Biology 107 .....	4	Nursing Arts (Hospital) .....	(2)
		Prof. Adjust. I (Hospital) .....	(1)
	16		13

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. She is then eligible to write the examinations given by the Michigan Board of Registration of Nurses, and upon passing these examinations receives a certificate to practice as a registered nurse.

Students wishing to take this course must make application at Blodgett Memorial Hospital with the Director of the School of Nursing. This should be done at the same time that application is made for admission to Calvin College. Students who plan to affiliate with Blodgett Hospital should make application with the Hospital during the early part of their Senior year in high school. No application will be acted upon until *all* forms are at Blodgett.

### **Bachelor of Science in Nursing, on the Combined Curriculum Plan**

To qualify for this degree the student must:

1. Meet regular admission requirements to the College, including among high school credits Algebra, Geometry, and Chemistry or Physics.

2. Successfully complete 94 semester hours of pre-professional subjects considered fundamental in any liberal arts program. He must secure a total of 188 honor points for the 94 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours.

3. Complete an additional 27 to 30 months of training at an accredited hospital school of nursing.

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

The required college courses in the program are the following:

	<i>Hours</i>
Bible (including 301) .....	6
English Composition and Rhetoric .....	6
English or American Literature .....	6
History .....	6
Psychology .....	6
Sociology, Introduction .....	3
Sociology Problems or The Family .....	3
Philosophy (not including Logic) .....	3
*Ancient Language .....	8
Chemistry (Inorganic) 103 and 104 .....	8
Organo-Biochemistry 303 and 304 .....	8
Human Anatomy and Physiology .....	6
General Biology .....	8
Microbiology .....	4
Introduction to Embryology .....	4
Biological Problems .....	2
Pharmacology .....	1
Nutrition .....	3
	91

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

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

To qualify for this degree the student must:

1. Meet regular admission requirements to the College, including among high school credits Algebra, Geometry, and Chemistry or Physics.

2. Successfully complete 94 semester hours of pre-professional subjects considered fundamental in any liberal arts program. He must secure a total of 188 honor points for the 94 hours of work. In other words, he must obtain an average grade of C. Honor points are computed on the basis of registered hours.

3. Complete an additional 12 months of training at an accredited school of Medical Technology.

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

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

The required college courses in the program are the following:

	<i>Hours</i>
Bible (including 301) .....	6
English Composition and Rhetoric .....	6
English or American Literature .....	6
History .....	6
Psychology .....	6
Sociology (Introduction or Problems) .....	3
Philosophy (Introduction to) .....	3
*Ancient Language .....	8
Chemistry (Inorganic) 103 and 104 .....	8
Organo-Biochemistry 303 and 304 .....	8
Human Anatomy and Physiology .....	6
General Biology .....	8
Microbiology .....	4
Microscopic Technique .....	1
Biological Problems .....	2
Histology .....	4
Parasitology .....	4
Elective .....	8
	97

### Suggested Program

#### *Freshman Year*

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

#### *Sophomore Year*

FIRST SEMESTER		SECOND SEMESTER	
	<i>Hours</i>		<i>Hours</i>
Biology 105 .....	3	Biology 106 .....	3
Biology 107 .....	4	Biology 304 .....	1
Chemistry 303 .....	4	Elective .....	2
History 101 .....	3	Chemistry 304 .....	4
Psychology 201 .....	3	History 102 .....	3
	17	Sociology 204 .....	3
			16

#### *Junior Year*

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

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

# Description of Courses

## Art

ASSISTANT PROFESSOR VAN LAAR AND INSTRUCTOR BOEVE

201. INTRODUCTION TO ART *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 Art 306.
202. HANDICRAFT *Three hours*  
Designing and making of handicrafts relevant to needs in the elementary grades. It requires work in flower or three-dimensional arrangements, clay modeling, weaving, block-printing, etc. Not offered 1961-62.
207. INTRODUCTION TO DESIGN *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 *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 casein paint. Six class hours per week.
228. PENMANSHIP  
A statement of acceptable performance in the areas of manuscript, cursive, and on-the-blackboard writing is required of all prospective elementary teachers. Theory and practice. Offered during the second semester only.
231. AN INTRODUCTION TO THE HISTORY OF THE FINE ARTS *Three hours*  
A survey of the history of architecture, painting, and sculpture in Ancient, Medieval and Renaissance times. The character of ancient art from Egypt through Rome will be followed by a study of medieval art from its beginning in the early days of the Christian era to its climax in the Gothic period of the thirteenth century. This course will be concluded with an introduction to the art of the Renaissance in Italy to 1600.
232. AN INTRODUCTION TO THE HISTORY OF THE FINE ARTS *Three hours*  
Continuation of 231. The history of art from 1600 to the present.
301. ADVANCED PAINTING *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 *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 FOR THE ELEMENTARY SCHOOL *Three hours*  
Prerequisite: 201, 202, or permission of instructor.  
A course emphasizing methods and techniques of organizing and motivating art instruction in grade levels, Kindergarten through grade 6. It includes lectures and demonstrations.

## Bible

PROFESSOR J. BRATT; ASSOCIATE PROFESSORS VAN TIL, WEIDENAAR, SMEDES, SPYKMAN; ASSISTANT PROFESSOR BANDSTRA; AND VISITING LECTURER VOS

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

101. HONORS BIBLE COURSE *Three hours*  
 A one-semester course covering the essentials of Bible 105 and 106. Special attention will be given to the interpretation of major Biblical themes. Admission to the course is by selection based upon achievement in the Standard Bible Content test, which is given during Freshman Orientation week. The completion of this course fulfills the requirements for Freshman Bible.
105. OLD TESTAMENT *Two hours*  
 A survey of the principal characters and the trend of events from the creation of the world to the return of the Jews from captivity. Special attention is given to the preparation for the coming Savior. Various O.T. books are selected for special study. Lectures and collateral readings.
106. NEW TESTAMENT *Two hours*  
 A companion course to 105. Events of the Intertestamentary period are sketched with particular reference to the coming of the gospel; the principal events and teachings of Christ are treated; and the origin and early expansion of the Christian Church is surveyed. Various N.T. books are selected for special study. Lectures and collateral readings.
201. REFORMED DOCTRINE *Two hours*  
 An advanced course of study in the doctrine of the Christian religion as contained in the Bible and as reflected in the confessional standards of the Reformed Churches.
202. REFORMED DOCTRINE *Two hours*  
 Continuation of 201.
203. PRINCIPLES OF MISSIONS *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. At least one semester of Reformed Doctrine is a prerequisite.
204. HISTORY OF MISSIONS *Three hours*  
 The record of missionary history throughout the ancient, mediæval 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. At least one semester of Reformed Doctrine is a prerequisite.
301. STUDIES IN CALVINISM *Two hours*  
 An inquiry into the origin and nature of Calvinism, its influence upon the development of religion and political life, as well as the proper application of its principles to these spheres. The course consists of lectures, assigned readings and essays. Open to Juniors and Seniors.
302. BIBLICAL ARCHAEOLOGY *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. Offered first semester only.

303. GENERAL CHURCH HISTORY *Three hours*  
A survey of the history of the Christian Church from its beginnings to the present time.
304. AMERICAN CHURCH HISTORY *Three hours*  
A consideration of the religious history of our country from the emigration period to the present. Attention will be paid to the European background, the early church beginnings in their diversity, the colonial era, the westward movement, and the major social and political developments in their influence upon the American religious scene. Not open to pre-Seminary students. Not offered 1961-62.
306. HISTORY OF THE CHRISTIAN REFORMED CHURCH *Three hours*  
The historical antecedents and the development of the Christian Reformed Church in America. Not open to pre-Seminary students.
307. REFORMED CONFESSIONS *Three hours*  
A study of the creeds in their Biblical basis, historic origin, doctrinal deliverances and practical value as to faith and order.
308. REFORMED THEOLOGY AND THE MODERN THEOLOGICAL SITUATION *Three hours*  
In this course the Reformed Faith will be set over against modern deviations and defections from the faith. The inclusivistic temper of modern ecumenical movements will be exposed and opposed. Modern Liberalism will be traced to its source in Schleiermacher and Kant. Its dominance and decay, together with the rise of the new modernism in Barthianism, will be discussed.
309. CHRISTIAN EVIDENCES *Three hours*  
A study of the evidences of the truths of Christianity as found in the records of the Old Testament with its revelation, miracles and prophecies, in the gospel record of the supernatural and vicarious life and death and resurrection of Jesus Christ; and the confirmation of the truth of Christianity as a supernatural force in history.
310. ROMANS *Three hours*  
A presentation of the teachings of the apostle Paul in his epistle to the Romans as they center about Revelation, Redemption, Predestination, and Christian Ethics. Lectures, collateral reading, and reports. Open to Juniors and Seniors who have taken 201 and 202.
311. CALVIN'S INSTITUTES *Two hours*  
A study of the INSTITUTES OF THE CHRISTIAN RELIGION with particular stress on the doctrines elaborated. Prerequisite: Bible 301. Offered both semesters.

### Biology

ASSISTANT PROFESSOR TEN BROEK; PROFESSOR MONSMA; ASSOCIATE PROFESSOR KARSTEN; ASSISTANT PROFESSOR BENGELINK; INSTRUCTORS GEBBEN, KLOOSTER, AND VAN HARN

A. *Biology Major*: The minimum requirement is 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)

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

B. *Biology Minor*: The student minoring biology should take Biology 109-110, a course in botany, a course in zoology, and any other advanced courses in the department.

C. *Education Students Majoring in Biology*:

A student intending to teach Biology in the secondary school should take the following: Biology 109-110, Biology 201, Biology 206, Biology 203 or 204 or both and/or Biology 301, and any other advanced courses in biology.

101. BIOLOGICAL SCIENCE *Three 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.
102. BIOLOGICAL SCIENCE *Three hours*  
A continuation of Biology 101.
105. HUMAN ANATOMY AND PHYSIOLOGY *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. This course cannot be applied toward a major or minor in biology.
106. HUMAN ANATOMY AND PHYSIOLOGY *Three hours*  
Continuation of 105 which is prerequisite.
107. PRINCIPLES OF MICROBIOLOGY *Four hours*  
The history of microbiology and the cultural and morphological characteristics of bacteria, yeasts, and molds are considered. Special emphasis is placed on communicable diseases. This course is adapted to pre-nursing students, but is open to others. This course cannot be applied toward a major or minor in biology. Three hours of lecture and one laboratory period a week.
109. GENERAL BIOLOGY *Four hours*  
An introductory study of the basic facts and principles of biology, intended as a foundation for the student who plans to continue work in this field of science. Three hours of lecture and one laboratory period per week.
110. GENERAL BIOLOGY *Four hours*  
A continuation of 109 which is prerequisite. Three hours of lecture and one laboratory period per week.
201. INVERTEBRATE ZOOLOGY *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 *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 *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 *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 *Three hours*  
A study of the ways and means by which the inherited characteristics of plants, animals, and men are transmitted from parents to offspring. The

course consists of lectures and problems concerning applications of the laws of heredity. Prerequisite: Biology 109-110

208. **INTRODUCTION TO EMBRYOLOGY** *Four hours*  
 A study of the development of vertebrate animals. Three hours of lectures and recitations and one laboratory session per week. Prerequisite: Biology 109-110.
212. **NUTRITION** *Three hours*  
 The study of the fundamental principles of human nutrition at all ages, applied to individual, family, and community nutrition problems. This course cannot be applied toward a major or minor in biology. Two lectures and one laboratory period per week. To be preceded or accompanied by Biology 106.
301. **PLANT TAXONOMY** *Four hours*  
 An introduction to the principles and concepts of plant systematics with laboratory and field work in the identification of plants. Three lectures and one laboratory or field session per week. Prerequisites: Biology 109-110, Biology 203 or 204, or consent of instructor.
304. **MICROSCOPIC TECHNIQUE** *One hour*  
 The techniques of preparing materials for microscopic examination and some fundamentals of microscopy are introduced. One laboratory session per week. Prerequisite: Biology 109-110 or Biology 105-106.
306. **BIOLOGICAL PROBLEMS** *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** *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** *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** *Five hours*  
 A comparative study of the anatomy of vertebrate animals. Three lectures and two laboratory sessions per week. Offered both semesters. Prerequisites: Biology 109-110, Biology 208 recommended.
313. **GENERAL ECOLOGY** *Four hours*  
 An introduction to the study of 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. Not offered 1961-62.
314. **GENERAL PHYSIOLOGY** *Four hours*  
 An introduction to the study of 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. Physiology 201-202 strongly recommended.

### Chemistry

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

A student who plans to do graduate work in chemistry should complete the following courses: 105-6, 201-2, 301-2, 305, 307-8, and 320. In related fields, he

should complete Mathematics through Calculus, and Physics 201, 202, 303, 304. Students planning to enter graduate school should have a reading knowledge of both German and French.

Students who expect to receive certification by the American Chemical Society Committee on the Professional Training of Chemists should complete the following courses: Chemistry 105-6, (10 hrs.), 201-2 (8 hrs.), 301-2 (10 hrs.), 305 (4 hrs.), 307-8 (8 hrs.), and 320 (2 to 3 hrs.).

101. CHEMISTRY FOR NURSES *Four hours*

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

No prerequisite.

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

102. DRUGS AND SOLUTIONS *One hour*

This course deals with the arithmetic involved in the preparation of solutions. Open only to Pre-Nursing students.

103. GENERAL CHEMISTRY *Four hours*

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

104. GENERAL CHEMISTRY *Four hours*

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

105. GENERAL CHEMISTRY *Five hours*

For students majoring in chemistry and chemical engineering. A study of the fundamental principles of inorganic chemistry, with emphasis on the quantitative and structural aspects of elements and compounds and their interactions. Three classroom hours and one four-hour laboratory period per week. A knowledge of high school chemistry or physics is desirable, but not required.

106. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS *Five hours*

Continuation of 105. The laboratory work is concerned with the separation and identification of the more common cations and anions.

201. QUANTITATIVE ANALYSIS *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, permanganometric and iodometric analyses, and gravimetric determinations. Prerequisite: 106.

202. QUANTITATIVE ANALYSIS *Four hours*

Continuation of 201. The laboratory work will deal with specialized and instrumental methods of analysis; the classroom work will stress Inorganic Chemistry.

203. ANALYTICAL CHEMISTRY *Five hours*

Three hours of classroom work and two three-hour laboratory periods each week. The classroom and laboratory work are integrated to cover both qualitative and quantitative analysis. This course is designed for students taking pre-professional courses such as pre-medical, pre-dental, etc. Prerequisites: Chemistry 104 and Mathematics 101. Not open to students who have had Chemistry 106.

204. PHYSICAL CHEMISTRY FOR PRE-MEDICAL STUDENTS *Three hours*

A study of the states of matter, properties of solutions, chemical kinetics, and the colloidal state. Three lecture hours per week. Prerequisite: 203.

301. ORGANIC CHEMISTRY *Four hours*  
 A study of the various homologous series of organic compounds. Emphasis is placed on aliphatic compounds in this course. Three hours in classroom and one or two three-hour laboratory periods per week. Prerequisite: 103 and 104 or 105 and 106. Chemistry 201 is desirable. Students majoring in chemistry must elect five hours of credit.
- 301 L. ORGANIC CHEMISTRY LABORATORY *One hour*  
 This is an extra hour of laboratory to be taken by Chemistry majors only.
302. ORGANIC CHEMISTRY *Four hours*  
 Continuation of 301, with emphasis on aromatic compounds and isolated topics. Hours the same. Prerequisite: 301.
- 302 L. ORGANIC CHEMISTRY LABORATORY *One hour*  
 This is an extra hour of laboratory to be taken by Chemistry majors only.
303. ORGANO-BIOCHEMISTRY *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. Prerequisite: 103 and 104.
304. ORGANO-BIOCHEMISTRY *Four hours*  
 Continuation of 303. Hours the same.
305. QUALITATIVE ORGANIC ANALYSIS *Four hours*  
 Two hours of lectures and two or three three-hour laboratory periods per week. This course is based on Shriner and Fuson's text. Prerequisite: 302.
307. PHYSICAL CHEMISTRY *Four hours*  
 A study of the kinetic theory of gases, solids and liquids. Three lecture hours and one laboratory period per week. Prerequisite: Chemistry 201, Physics 201, Mathematics 301 and 302.
308. PHYSICAL CHEMISTRY *Four hours*  
 Continuation of 307. Hours the same. A study of electro-chemistry, chemical thermodynamics and nuclear structure.
320. CHEMICAL RESEARCH *Three hours*  
 Library and laboratory research on an assigned problem. Only for approved Seniors majoring in chemistry.

## Dutch

ASSOCIATE PROFESSOR LAGERWEY

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

#### A. DUTCH LANGUAGE

101. ELEMENTARY DUTCH *Four hours*  
 Mastery of basic vocabulary, idiom, grammar and syntax of the Dutch language through graded readings, exercises, and conversation.
102. ELEMENTARY DUTCH *Four hours*  
 Continuation of 101.
201. INTERMEDIATE DUTCH *Three hours*  
 Selected readings of modern Dutch prose and poetry. Review of grammar and syntax. Reports on 300-400 pages of selected outside reading.
202. INTERMEDIATE DUTCH *Three hours*  
 Continuation of 201.

305. **DUTCH CLASSICS** *Three hours*  
 Study and discussion of several Dutch literary texts representative of the classical and modern periods of Dutch literature. Required outside reading and essays.
306. **DUTCH CLASSICS** *Three hours*  
 Continuation of 305.

### B. MEDIEVAL AND DUTCH HISTORY

325. **THE RENAISSANCE IN FLANDERS AND ITALY (1350-1550)** *Three hours*  
 The age of unrest. The Christian and the Flemish Renaissance; the Italian Renaissance, and its distribution over Western Europe through the Brethren of the Common Life. The Renaissance spirit. Not offered in 1960-61.
326. **DUTCH HISTORY (1500-1815)** *Three hours*  
 A short review of the history of the Netherlands up to 1500. The Precursors of the Reformation and the Reformation in the Netherlands. The Eighty Years' War. The Dutch Golden Age and its influence on Europe. Dutch commerce and colonization. Wars between the Netherlands and other countries for religious and commercial purposes. The triumph of plutocracy and rationalism in the eighteenth century. The spirit of the French Revolution as manifested in Holland. The rebirth of Calvinism as a political and cultural power after 1815.

### Economics

PROFESSORS JOHN VANDEN BERG AND BROUWER; ASSISTANT PROFESSORS DE WIT AND PRUIS

Students who plan to major in Economics should take Mathematics 205 and 206. These courses, however, do not apply toward a major in economics.

103. **ECONOMIC HISTORY (United States)** *Three hours*  
 A review of the economic development of this country from the time of colonization to the present day. Special emphasis is placed on the development of the transportation system, the history of the tariff question, the development of unionism, the history of the banks, and the development of government regulation in our economic system.
201. **PRINCIPLES OF ECONOMICS** *Three hours*  
 A review of the fundamental principles underlying modern economic life. Not open to Freshmen except by special permission. Students electing 201 are expected to take 202.
202. **PRINCIPLES OF ECONOMICS** *Three hours*  
 A continuation of the principles of economics and an application of the same to current industrial problems and institutions.
203. **PRINCIPLES OF ECONOMICS** *Three hours*  
 A one-semester course in economic principles and their application to questions of public policy. Intended especially for pre-engineering students. Open to others who desire a course in economics, but who do not plan to take a minor or major in this field and for whom Economics 201 and 202 are not prescribed. This course may serve as a prerequisite to advanced courses for students not concentrating in economics. Not open to Freshmen.
301. **MONEY AND BANKING** *Three hours*  
 A study of the nature and functions of money, with a view to the understanding of the complex rôle of currency systems in our national and international life. Prerequisite: 201 and 202 or their equivalents.

302. **FINANCIAL PRINCIPLES** *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** *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. Prerequisite: 201 and 202.
305. **ESSENTIALS OF ACCOUNTING** *Four 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. A laboratory period is held each week for application of the material. Prerequisite: 201 and 202 or their equivalents.
306. **ESSENTIALS OF ACCOUNTING** *Four hours*  
 Continuation of 305.
307. **ESSENTIALS OF ACCOUNTING** *Three hours*  
 A one-semester course designed for those who desire a course in accounting, but who are unable to take a full year's work in the subject (namely, pre-engineering, pre-law, sociology and political science majors). Not open to economics and business administration majors or to Freshmen.
309. **BUSINESS LAW: CONTRACTS** *Three hours*  
 Deals with the main principles of contract: offer, acceptance, consideration, capacity of the parties, legality of object, the formal requisites of agreements under the statute of frauds, the operation of contracts in business and their interpretation by the courts.
311. **HISTORY OF ECONOMIC THOUGHT** *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** *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** *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.

### Education

PROFESSORS JAARMA, FLOKSTRA, DE BEER, VAN BRUGGEN; DR. BOS AND MISS VAN OPYNEN; ASSISTANT PROFESSORS VAN LAAR AND SNAPPER; INSTRUCTORS D. OPPEWAL AND VANDER ARK

Students who plan to meet teacher certification requirements will find detailed information on pages 68 to 71.

### A. PSYCHOLOGY

201. **GENERAL PSYCHOLOGY** *Three hours*  
 (For description see under department of Psychology)

202. EDUCATIONAL PSYCHOLOGY *Three hours*

A psychological study of the forming of personality as it takes place in the classroom of the elementary and secondary schools. The course seeks to develop a sound foundation in principle and in fact for the understanding of a child in the learning process. The observed facts of child life with reference to the classroom are interpreted according to the Scriptural doctrine of man and the Scriptural mandate in education. Psychology 201, or its equivalent, is a prerequisite. Offered both semesters.

## B. HISTORY

203. HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF EDUCATION *Three hours*

On the assumption that the history of education in any period or social order should be viewed against the background of the more general and historical development of the period, this course aims to study the relationship between the growth of educational theory and practice in Western European civilization (through the Reformation) and its intellectual and cultural bases. Offered first semester.

204. HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF EDUCATION *Three hours*

Continuation of Education 203, with emphasis on the development of American Education. Offered second semester.

## C. PRINCIPLES

301. PRINCIPLES OF EDUCATION *Three hours*

A study of the aim of education and of the various underlying problems.

314. PRINCIPLES OF TEACHING IN SECONDARY SCHOOLS *Three hours*

A general methods course to give the student a perspective of educational practices at the secondary level. This includes an analysis of objectives, teaching plans and techniques, pupil guidance and discipline, and testing and appraisal. Prerequisite: Psychology 202 and Education 203 and 204.

315. PRINCIPLES OF TEACHING IN ELEMENTARY SCHOOLS *Three hours*

A study of the principles, methods, and techniques appropriate to the direction of the learning process. Prerequisite: Psychology 202; Education 203 and 204.

## 317. PRINCIPLES OF KINDERGARTEN-PRIMARY GRADES TEACHING

*Two or three hours*

The course includes a brief history of past and present trends in kindergarten work; the content of the curriculum for grades one, two, and three; and observation in actual classroom situations. Prerequisite: Psychology 202. Not offered 1961-62.

## D. PROFESSIONAL COURSES

220. TEACHING ARITHMETIC IN ELEMENTARY SCHOOLS *Three hours*

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

222. ELEMENTARY SCHOOL MUSIC (A Methods Course) *Two hours*

Prerequisite: Music 221.

225. CHILDREN'S LITERATURE (STORY TELLING) *Two or three hours*

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

231. AUDIO-VISUAL AIDS IN EDUCATION *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 *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 *Three hours*  
 A survey course of present-day practices of measuring the results of teaching. Mental testing is included. Not offered 1961-62.
318. TEACHING GEOGRAPHY IN ELEMENTARY SCHOOLS:  
 METHODS AND CONTENT *Three hours*  
 Prerequisite: Psychology 202; Education 203 and 204.
322. TEACHING READING IN ELEMENTARY SCHOOLS *Three hours*  
 Section A — Primary Grades  
 Section B — Intermediate Grades  
 Both Semesters.  
 Prerequisite: Psychology 202 and Education 203 and 204.
340. CURRICULUM *Two hours*  
 A study of curriculum requirements for grades four through six, and of the fundamental teaching procedures applying to children of later childhood. Observation required. Not offered 1961-62.
343. DIRECTED TEACHING, INCLUDING OBSERVATION AND PARTICIPATION *Eight hours*  
 For students planning to teach in the elementary schools. Offered both semesters. See prerequisite listed earlier in this catalogue under Education.
344. DIRECTED TEACHING, INCLUDING OBSERVATION AND PARTICIPATION *Eight hours*  
 For students planning to teach in junior or senior high schools. The course seeks to orient the student to classroom teaching by integrating observation, participation, and actual teaching. A study of theory of teaching parallels daily work in the junior or senior high school classroom in order to help the student make explicit to himself a distinctly Christian view of theory and practice in education. See prerequisites listed earlier in this catalogue under Education.

## Engineering

PROFESSOR WASSINK; ASSISTANT PROFESSOR BOSSCHER

101. ENGINEERING DRAWING *Three hours*  
 A study of basic topics in engineering drawing to provide facility in the transmission of ideas through 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.
102. DESCRIPTIVE GEOMETRY AND GRAPHICAL SOLUTIONS *Three hours*  
 A study of basic graphical techniques for solution of spacial relationships and other physical problems. Topics covered are descriptive geometry; concerned with solution of point, line plane, and surface problems in 3 dimensions; precision dimensioning, charts and graphs, graphical solutions, and graphical calculus.
205. PRINCIPLES OF ENGINEERING MATERIALS *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. There are tours through various plants. Students should keep Thursday afternoon open on their schedules for such tours. Prerequisite: Chemistry 104 or 106.

301. **STATICS** *Three hours*  
 Study of fundamental principles of mechanics and their application to the simpler problems of engineering. Forces, components, moments, cables, friction, centroids, moments of inertia. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 301 and Physics 201 or 203.
304. **STRENGTH AND ELASTICITY OF MATERIALS** *Four hours*  
 Application of principles of mechanics to solution of problems in stress and strain of engineering materials, including resistance to force, bending, torque, shear, eccentric load, deflection of beams, buckling of columns, and compounding of simple stresses. Recitations, lectures, and problems. Prerequisite: 301.
306. **DYNAMICS** *Three hours*  
 Motion of a particle, dynamics of moving bodies, Newton's laws, simple harmonic motion, elementary vibration problems, balancing, pendulums, impulse and momentum, work and energy. Recitations, lectures, problems. Must be preceded or accompanied by Mathematics 302 and Physics 202 or 204.

### English

PROFESSOR TIMMERMAN; ASSOCIATE PROFESSORS VAN DER WEELE, HARPER, P. OPPEWALL, AND RUS; ASSISTANT PROFESSORS SLINGERLAND, TIEMERSMA, HOLKEBOER, AND WIERSMA; INSTRUCTOR TEN HARMSSEL\*; MR. A. FABER, MR. SMITH, AND MR. JACK VANDEN BERG

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

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

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

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

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

100. **ENGLISH FOR FOREIGN STUDENTS** *No credit*  
 A non-credit course for students failing the examination. To be taken by all students who have had less than two years' formal education in an English- or American-speaking country. Students must give evidence of satisfactory mastery of this course before being admitted to 103.
103. **FRESHMAN ENGLISH** *Three hours*  
 Grammar, rhetoric, and composition. Textbooks and periodic themes.
104. **FRESHMAN ENGLISH** *Three hours*  
 Continuation of 103.
103. **HONORS FRESHMAN ENGLISH** *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.

\*On leave of absence 1961-'62.

104. HONORS FRESHMAN ENGLISH *Three hours*  
Continuation of 103.
201. AMERICAN LITERATURE *Three hours*  
Analysis of important writings in the colonial and revolutionary periods. Emphasis upon culture and writings of the New England Group. Textbooks, collateral reading, and reports.
202. AMERICAN LITERATURE *Three hours*  
Continuation of 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 *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 *Three hours*  
Intensive critical analysis of the work of Wordsworth, Coleridge, Byron, Keats, and Shelley, and a survey of other English poets writing in the years 1798-1830. Textbooks and critical papers.
302. POETRY OF THE VICTORIAN PERIOD *Three hours*  
Intensive critical analysis of the works of Tennyson, Browning, and Arnold seen in relation to relevant cultural influences; a survey of the Pre-Raphaelite Movement; and consideration of the principal poems of Swinburne and Meredith. Textbook, and brief course paper.
303. CONTEMPORARY FICTION *Three hours*  
A study of English and American fiction, in its continental relations, from 1890 to the present time. Collateral reading and reports.
304. CONTEMPORARY ENGLISH POETRY *Three hours*  
A study of the lyric and dramatic poetry of England, in its continental relations, from 1890 to the present time. Textbook, collateral reading, and reports.
306. CREATIVE WRITING *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.
307. LITERATURE OF THE SEVENTEENTH CENTURY *Three hours*  
A study of important poetry and prose in England from Donne to Dryden with particular emphasis upon the poetry of Donne, Herbert, Vaughan, Traherne, and Herrick, and upon the prose of Donne, Browne, and Taylor. Textbooks and a critical report.
308. MILTON *Three hours*  
An intensive study of the works of John Milton. Textbook, collateral reading, and reports.

309. SHAKESPEARE *Three hours*  
An intensive study of the sonnets and about fifteen plays of Shakespeare. Textbook and reports.
310. NINETEENTH CENTURY ENGLISH PROSE *Three hours*  
An intensive study of such representative English prose of the nineteenth century, exclusive of fiction, as the works of Carlyle, Ruskin, Arnold, Huxley, Mill, Newman, Pater, Stevenson, and others. Textbook and reports.
312. THE ENGLISH NOVEL *Three hours*  
A survey of the English novel from the beginning through Hardy. Emphasis upon the art and thought of the major novelists with special attention to the development of differing techniques and schools of fiction. Textbook, collateral reading, and reports.
313. CHAUCER *Three hours*  
A study of the General Prologue, representative Canterbury Tales, and Troilus and Criseyde. Emphasis will fall upon Chaucer's literary genius and the reflection in his work of the major cultural phenomena of his time. Collateral reading.
315. THE PRINCIPLES OF LITERARY CRITICISM *Three hours*  
A course in critical theory, historically and normatively pursued. Analysis of the principal contributions to Western literary criticism. Emphasis on Plato, Aristotle, Longinus, Horace, Sidney, Dryden, Pope, Lessing, Wordsworth, Coleridge, Shelley, Poe, Arnold, and Eliot. Method: *explication de texte*. Textbook and critical papers.
316. LITERATURE OF THE EIGHTEENTH CENTURY *Three hours*  
A study of English poetry and prose from Dryden through Burns. Emphasis upon the neo-classicists: Dryden, Pope, Addison, Swift, and Johnson, and a study of the beginnings of the romantic outlook in Gray, Thomson, and Cowper. Textbook, collateral reading, and reports.
319. NON-SHAKESPEAREAN DRAMA OF THE RENAISSANCE *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 CLASSICS *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.
334. THE DEVELOPMENT OF THE ENGLISH LANGUAGE *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.

## French

ASSISTANT PROFESSORS A. OTTEN AND HOLKEBOER; VISITING INSTRUCTOR ZEGERS

Students wishing to major in French ought to present twenty-four hours of work beyond the elementary level. Permission to major in French must be obtained from the head of the department.

The facilities and materials of the Language Laboratory are available to all students of French.

101. ELEMENTARY FRENCH *Four hours*  
An introductory course in the comprehension and use of spoken and written French.
102. ELEMENTARY FRENCH *Four hours*  
Continuation of 101.
201. INTERMEDIATE FRENCH *Three hours*  
Further training in spoken and written French, study of the structure of the language, and reading in significant French literature.
202. INTERMEDIATE FRENCH *Three hours*  
Continuation of 201.
206. ADVANCED FRENCH *Two hours*  
Intensive exercise in written and oral expression. Prerequisite: French 202.
207. READINGS IN 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, lectures, *explications de texte*. Prerequisite 202.
208. READING IN FRENCH LITERATURE II. *Three hours*  
Continuation of French 207. Study of the nineteenth and twentieth centuries.
305. LITERATURE OF THE SEVENTEENTH CENTURY *Three hours*  
A study of the growth and spirit of Classicism, with emphasis on representative authors.
306. LITERATURE OF THE SEVENTEENTH CENTURY *Three hours*  
Continuation of 305.
307. LITERATURE OF THE EIGHTEENTH CENTURY *Three hours*  
Lectures and discussion on the history of the literature and thought of the eighteenth century. Critical reading and analysis of the works of the principal writers of the period with special attention to Montesquieu, Voltaire, Rousseau, and Diderot. Not offered 1961-62.
308. LITERATURE OF THE NINETEENTH CENTURY *Three hours*  
A study of major movements and writers in nineteenth century France to 1870. Not offered 1961-62.
309. CONTEMPORARY FRENCH LITERATURE *Three hours*  
A detailed study of major writers and movements from 1870 to 1914. Extensive reading of significant fiction and drama, and intensive study of poetry beginning with Rimbaud, Verlaine, and Mallarmé. Not offered 1961-62.
310. CONTEMPORARY FRENCH LITERATURE *Three hours*  
A study of French literature and thought since the first World War, ending with a survey of the current literary scene. Lectures, critical analysis of texts, reports. Not offered 1961-62.

## Geography

PROFESSOR FLOKSTRA AND MISS VAN OPYNNEN

105. GEOGRAPHY OF NORTH AMERICA *Three hours*  
A survey of the elements of the natural environment of the major regions of the United States and Canada in their relationship to the cultural landscape. Intended for those specializing in education or in the social sciences. Offered only first semester.

106. **GEOGRAPHY OF SOUTH AMERICA** *Three hours*  
 A study of the geographic structure of South America in relation to human adjustment and culture. Intended for those specializing in education or in the social sciences. Not offered 1961-62.
107. **GEOGRAPHY OF THE FAR EAST AND THE PACIFIC AREA** *Three hours*  
 A study of the geographic and historical background of India, China, Japan, Soviet Asia, Australia, and minor areas of the Far East and the Pacific. The course also deals with the geographic aspects of certain problems dealing with industry, agriculture, and population. Not offered 1961-62.
109. **GEOGRAPHY OF THE CARIBBEAN AREA** *Three hours*  
 A study of the geographic and historic background of this area. The course deals with the geographic aspects of certain problems related to industry, agriculture, and population. Not offered 1961-62.
318. **TEACHING GEOGRAPHY IN ELEMENTARY SCHOOLS** *Three hours*  
 This course may be counted as credit in Geography toward an A.B. degree in Education except in cases in which it is the student's only course in teaching methods.  
 This course not only includes a course in methods, but also one hour of content dealing with the Pacific area. Offered only second semester.

### German

PROFESSORS FRIDSMA AND BOERSMA; INSTRUCTORS KREUZER AND W. BRATT

101. **ELEMENTARY GERMAN** *Four hours*  
 Pronunciation, elementary grammar and composition. Graded readings.
102. **ELEMENTARY GERMAN** *Four hours*  
 Continuation of 101.
201. **INTERMEDIATE GERMAN** *Three hours*  
 Selected prose readings. Grammar review, composition, and collateral reading reports. Prerequisite: 101 and 102.
202. **INTERMEDIATE GERMAN** *Three hours*  
 More advanced readings in prose and/or poetry. Grammar review and composition continued. Collateral reading reports. Prerequisite: 201.
205. **ADVANCED ORAL AND WRITTEN COMPOSITION** *Two hours*  
 Prerequisite: 202.
301. **CLASSICISM** *Three hours*  
 The origins of the classical ideal during the seventeenth and early eighteenth centuries. Readings from Klopstock, Lessing, Goethe, and Schiller. Prerequisite for either semester: 202. Not offered 1961-62.
302. **CLASSICISM** *Three hours*  
 Continuation of 301. Not offered 1961-62.
303. **ROMANTICISM** *Three hours*  
 The literary theory and philosophical-religious basis of the German romantic movement as reflected in representative works of both earlier and later Romanticists. Prerequisite: 202.
304. **REALISM** *Three hours*  
 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.

305. EARLY NINETEENTH CENTURY DRAMA *Three hours*  
 A comprehensive study of the lives and works of leading German dramatists of the early nineteenth century. Assigned readings. Papers on related subjects. Prerequisite: 202. Not offered 1961-62.
306. LATER NINETEENTH CENTURY DRAMA *Three hours*  
 A study of Hebbel and Hauptmann and their times. Assigned reading and reports. Prerequisite: 202 and 303. Not offered 1961-62.

### Greek

PROFESSOR RADIUS; ASSOCIATE PROFESSOR R. OTTEN; INSTRUCTORS HARRIS\* AND WEVERS

101. BEGINNERS' GREEK *Four hours*  
 Text: Crosby and Schaeffer, *An Introduction to Greek*.
102. BEGINNERS' GREEK *Four hours*  
 Continuation of 101. Completion of the text and the reading of the first book of Xenophon *Anabasis*, or its equivalent.
201. XENOPHON *Three hours*  
 Selections from the *Anabasis*. Prerequisite: 101 and 102.
202. SELECTIONS FROM PLATO *Three hours*  
 Prerequisite: 201.
311. GREEK HISTORY *Three hours*  
 The political, social and cultural history of the Greek city-states up to the time of the Roman conquest. Some attention is also given to the history of the Near and Middle East. Open only to Juniors and Seniors who are Pre-Law, Pre-Seminary, History or Classics majors; others must secure permission.
313. NEW TESTAMENT GREEK *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. Prerequisite: for Pre-Seminary students, 202; others, 102.
314. NEW TESTAMENT GREEK *Three hours*  
 A study is made of some of the Pauline Epistles. Prerequisite: 313.
319. PLATO'S REPUBLIC *Three hours*  
 The Greek text is studied. This course aims at an understanding and evaluation of Plato's views as presented especially in the Republic. Prerequisite: two years of Greek.
320. PLATO'S REPUBLIC (continued) *Three hours*  
 Prerequisite: 319

### History

PROFESSORS IPPEL, RADIUS, STRIKWERDA, DE BEER, AND MILLER; ASSOCIATE PROFESSORS LAGERWEY AND D. JELLEMA; ASSISTANT PROFESSORS DE BIE, RIENSTRA\*, AND W. DE VRIES; INSTRUCTORS WESTRA AND VAN KLEY; MR. JACK VANDEN BERG

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

\*On leave of absence 1961-62.

and American History 301-302, 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. Beginning with the class graduating in 1963, the Senior Seminar 391 will be required. Economics 201-202 and Political Science 203-204 are recommended and suggested minors are economics, political science, 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 301-302. 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 must file written application with a member 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.

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

101. GROWTH OF WESTERN CIVILIZATION *Three hours*

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.)

102. GROWTH OF WESTERN CIVILIZATION *Three hours*

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.)

203. ENGLISH HISTORY TO 1600 *Three hours*

An outline of the political and social history of England. Not offered 1960-61.

204. ENGLISH HISTORY: 1600 TO 1959 *Three hours*

Continuation of 203. Not offered 1960-61.

205. MODERN AND CONTEMPORARY EUROPE SINCE 1815 *Three hours*

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.

206. MODERN AND CONTEMPORARY EUROPE SINCE 1815 *Three hours*

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 Freshman.

209. CANADIAN HISTORY *Three hours*

A tracing of the political, economic, and cultural history of Canada and the Atlantic Provinces to the Quebec Conference of 1864. Lectures and student reports.

210. CANADIAN HISTORY *Three hours*  
Continuation of 209. A survey of Canada's history from the Confederation to the present. Includes an analysis of cabinet or parliamentary government. Lectures and student reports.
211. RUSSIAN AND EASTERN EUROPEAN HISTORY *Three hours*  
The study of Russian and East European history from the Byzantine and Slavic origins up to the Congress of Vienna. Assigned readings and reports.
212. RUSSIAN AND EASTERN EUROPEAN HISTORY *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.
301. AMERICAN HISTORY *Three hours*  
European backgrounds, colonial development, the Revolution, the onset of the national period, Jacksonianism, sectionalism, and the Civil War.
302. AMERICAN HISTORY *Three hours*  
Continuation of 301. 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.
305. LATIN AMERICAN HISTORY *Three hours*  
An account of the history, government, and the social and economic development of the Central and South American colonies of Spain and Portugal. Open only to Juniors and Seniors.
306. LATIN AMERICAN HISTORY *Three hours*  
Continuation of 305. Presents the histories and governments of the several Central and South American countries during their national periods to the present. Open only to Juniors and Seniors.
307. MEDIEVAL HISTORY *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 *Three hours*  
Continuation of the former 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 *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 *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 *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 *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 constitu-

tion 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 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 Three hours  
Continuation of 313.
326. DUTCH HISTORY (1500-1815) Three hours  
A short review of the history of the Netherlands up to 1500. The Precursors of the Reformation and the Reformation in the Netherlands, the Eighty Years' War; the Dutch Golden Age and its influence on Europe; Dutch commerce and colonization; wars between the Netherlands and other countries for religious and commercial purposes; the triumph of plutocracy and rationalism in the eighteenth century; the spirit of the French Revolution as manifested in Holland; the rebirth of Calvinism as a political and cultural power after 1815.
391. SEMINAR IN HISTORY 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. Offered each semester.

### Latin

PROFESSOR RADIUS; ASSOCIATE PROFESSOR R. OTTEN; INSTRUCTORS VAN VUGT, HARRIS\*, AND WEVERS

*Pre-Seminarians* —

- Those who have had one year in high school take 101.  
Those who have had two years in high school take 207.  
Those who have had three years in high school take 208.  
Those who have had 101 and 102 at Calvin take 207.

*Others* —

- Those who have had one year in high school take 101.  
Those who have had two years in high school take 201.  
Those who have had three years in high school take 202.  
Those who have had 101 and 102 at Calvin take 201.  
Those who have had 201 and 202 at Calvin take 301 or 303.

101. ELEMENTARY LATIN Four hours
102. ELEMENTARY LATIN Four hours  
Continuation of 101.
201. INTERMEDIATE LATIN Three hours  
For students who have had two units of Latin in high school or one year in college. A thorough review of the grammar will accompany the reading of selected Latin prose.
202. INTERMEDIATE LATIN Three hours  
An introductory reading of the *Aeneid* in English translation leading to a study of selected books and passages in Latin. For students who have had three units of Latin in high school or Latin 201 in college.
207. SELECTIONS FROM LACTANTIUS' DIVINÆ INSTITUTIONES Three hours  
Review of grammar. Reading of selected portions of the *Institutiones*.

\*On leave of absence 1961-62.

208. READINGS IN THE CHURCH FATHERS *Three hours*  
Continuation of 207.
301. LUCRETIUS AND CICERO *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.
302. SENECA AND AUGUSTINE *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.
303. LATIN POETRY *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. Not offered 1961-62.
304. ROMAN HISTORICAL THOUGHT *Three hours*  
Representative selections from such historians as Sallust, Livy, Tacitus, and Suetonius. Collateral reading and reports. Alternates with 302. Not offered 1961-62.
312. ROMAN HISTORY *Three hours*  
The history of Rome from the foundation of the city to A.D. 565, the death of Justinian. The emphasis falls on the development of the constitution and its effect upon, and how in turn it was affected by the expansion of Rome over the Mediterranean. Economic, social and literary history studied in its relation to the political. The decline of paganism and the rise of Christianity are viewed in their relation to each other. Prerequisite: Greek 311 or History 311.
327. LATIN GRAMMAR AND WRITING *Three hours*  
A thorough review of Latin grammar and syntax will be made, and attention will be given to Latin writing. Prerequisite: 201 and 202, or 207 and 208. Offered both semesters.

### Mathematics

ASSOCIATE PROFESSOR TULS; PROFESSOR MUYSKENS; ASSOCIATE PROFESSOR SINKE; ASSISTANT PROFESSORS ZWIER AND VAN ZWALENBERG

Students who wish to major in mathematics should take Mathematics 101, 103, and 104 in high school. These courses will not be credited toward a college major in mathematics.

Since the freshman and sophomore offerings in mathematics have been revised, the courses formerly numbered 201 and 202 do not appear among the offerings listed below. The courses numbered 301 and 302 will be listed for the year 1961-1962. It is presumed that students who have had Mathematics 201 and 202 during 1960-1961 will follow up with Mathematics 301 and 302 in 1961-1962. The latter courses in their present form will be dropped in September 1962.

The courses named in the preceding paragraph are being replaced by a new freshman-sophomore sequence which includes Mathematics 111, 112, 211 and 212 as described below. Qualified students (those whose preparation includes four semesters of algebra and one semester of trigonometry) are directed to enroll in Mathematics 111 which now becomes the first course in the major program.

Minimum requirements for a major in mathematics for students entering the major program in September 1961 include: Mathematics 111, 112, 211, 212, plus two additional courses from those numbered 300 or above.

Minimum requirements for a major in mathematics for students who entered the major program before September 1961 include: Mathematics 201, 202, 301, 302, 304, plus one additional course from those numbered 300 or above.

A student who desires to major in mathematics must receive departmental approval. He must file application for such approval with the chairman of the department not later than the beginning of the junior year.

101. **ADVANCED ALGEBRA** *Three hours*  
 For those who have had only one year of high school algebra.  
 Fundamental operations, special products, factoring, fractions, linear equations, ratio, proportion, variation, linear systems, quadratic equations, exponents, radicals, logarithms. Offered each semester.
103. **COLLEGE ALGEBRA** *Three hours*  
 This course is the equivalent of Algebra 4 in high school.  
 Theory of quadratics, inequalities, complex numbers, systems of quadratics, theory of equations, binomial theorem, mathematical induction, progressions, permutations and combinations, probability, determinants, partial fractions, infinite series. Prerequisite: 101. Offered each semester.
104. **PLANE TRIGONOMETRY** *Three hours*  
 Prerequisite: 101 and Plane Geometry. Offered each semester.
111. **ANALYTIC GEOMETRY AND CALCULUS** *Four hours*  
 The real number system, straight lines, circles, functions, limits, derivatives, differentiation of algebraic functions, applications. Prerequisite: Four semesters of algebra and 104. Offered each semester.
112. **CALCULUS AND ANALYTIC GEOMETRY** *Four hours*  
 Conic sections, definite integrals, transcendental functions, formal integration, applications. Prerequisite: 111. This course will be offered during the second semester 1961-62.
205. **MATHEMATICS FOR BUSINESS ANALYSIS** *Three hours*  
 Functions and graphs, equations and inequalities, introduction to vectors and matrices, progressions, derivatives and integrals of simple functions. Particular emphasis falls on business applications such as optimum solutions, linear programming, interest and annuities. Prerequisite: 101.
206. **ELEMENTARY STATISTICS** *Three hours*  
 Description of sample data, probability, theoretical frequency distributions, sampling, estimation, testing hypotheses, correlation, regression. Prerequisite: 101. For business administration students 205 is required.
211. **CALCULUS AND ANALYTIC GEOMETRY** *Five hours*  
 Advanced formal integration, applications, properties of functions, parametric equations, polar coordinates, infinite series, solid analytic geometry, vectors. Prerequisite: 112. Not offered in 1961-62.
212. **CALCULUS AND DIFFERENTIAL EQUATIONS** *Five hours*  
 Partial differentiation, multiple integrals, differential equations of first order and first degree, orthogonal trajectories, linear differential equations, operators, variation of parameters, systems of equations, equations of higher degree, power series solutions. Prerequisite: 211. Not offered in 1961-62.
301. **CALCULUS** *Five hours*  
 Functions, limits, continuity, differentiation and integration of algebraic functions, applications, differentiation of transcendental functions. Prerequisite: 201 and 202.
302. **CALCULUS** *Five hours*  
 Integration completed, applications, improper integrals, indeterminate forms, infinite series, partial derivatives, multiple integrals, introduction to elementary ordinary differential equations. Prerequisite: 301.
304. **DIFFERENTIAL EQUATIONS** *Three hours*  
 Equations of first order and first degree, orthogonal trajectories, linear differential equations, operators, variation of parameters, systems of equations, equations of higher degree, power series solutions. Prerequisite: 302.



KNOLLCREST MANOR

306. **ADVANCED CALCULUS** *Three hours*  
 An investigation into the basic concepts of the Calculus. Topics include: properties of the real number system, functions, sequences, limits, properties of continuous functions, uniform continuity, differentiation and Riemann integration. Prerequisite: 302.
308. **MATHEMATICAL STATISTICS** *Three hours*  
 Introduction to probability and probability spaces, frequency functions for discrete and continuous random variables, binomial, Poisson, and normal distributions, central limit theorem, distribution of sample statistics, correlation, regression, testing for goodness of fit, hypothesis testing, point estimation, maximum likelihood estimators, confidence intervals, elementary small sample theory. Prerequisite: 302.
309. **INTRODUCTION TO MODERN ALGEBRA** *Three hours*  
 Fundamental concepts of sets, mappings, relations, and operations; the real number system, integral domains, fields, polynomial domains, the complex number field, groups, rings. Prerequisite: 302.
301. **INTRODUCTION TO LINEAR ALGEBRA** *Three hours*  
 Elements of finite dimensional vector spaces, determinants, linear transformations, matrices, canonical forms. Prerequisite: 302.

## Music

PROFESSOR SWETS; ASSOCIATE PROFESSOR DE JONGE; ASSISTANT PROFESSORS  
 HAMERSMA AND GEERDES

### THEORY

103. **THEORY AND HARMONY** *Three hours*  
 The elements of music: tonality, notation, rhythm. A coordinated study of harmony through the ear, eye, and keyboard. Writing and harmonization of hymn tunes and chorales, sight-singing, dictation using primary and dominant seventh chords. One hour laboratory period per week required.
104. **THEORY AND HARMONY** *Three hours*  
 Continuation of 103.
203. **THEORY AND HARMONY, ADVANCED** *Three hours*  
 Continuation of 103-104. Use of all diatonic 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** *Three hours*  
 Continuation of 203.
303. **COUNTERPOINT, CANON AND FUGUE** *Three hours*  
 The principles of contrapuntal composition, including a study of species counterpoint and a detailed analysis of Palestrinian counterpoint.
304. **COUNTERPOINT, CANON AND FUGUE** *Three hours*  
 Continuation of 303.
313. **CONDUCTING** *One hour*  
 Prerequisite: 103-104.
314. **CONDUCTING** *One hour*  
 Continuation of 313.
315. **ARRANGING** *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. Ar-

rangements written by class members will be performed by student organizations whenever practical. Prerequisite: 103-104.

316. ARRANGING *Three hours*  
Continuation of 315.

### HISTORY AND LITERATURE

211. INTRODUCTION TO MUSIC LITERATURE *Three hours*

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

212. MUSIC LITERATURE *Three hours*  
Continuation of 211.

219. CHURCH MUSIC *Two hours*

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 plainsong, the Lutheran chorale and the Genevan-Dutch psalm tunes. Not offered 1961-62.

220. CHURCH MUSIC *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. Not offered 1961-62.

305. HISTORY OF MUSIC *Three hours*

The development of the art of music from the earliest times to the present. Oratorio and church music, the opera, songs, and instrumental music. Biographies of composers. Representative compositions of each main period presented in class. Lectures, collateral reading, term papers, and text-book work.

306. HISTORY OF MUSIC *Three hours*  
Continuation of 305.

307. FORM *Two hours*

A study of the development of musical forms, beginning with the early plainsong, masses, motets, madrigals, and continuing through early orchestral and instrumental compositions. The relationship of musical form to problems of tonality, rhythm, unity and variety. Not offered 1961-62.

308. FORM *Two hours*  
Continuation of 307. Not offered 1961-62.

311. SYMPHONIC LITERATURE *Three hours*

A study of the development of the Symphony from the early sonatas, suites, and overtures, through to the modern symphony.

312. SYMPHONIC LITERATURE *Three hours*

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

### MUSIC EDUCATION

221. ELEMENTS OF MUSIC *Two hours*

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

222. **ELEMENTARY SCHOOL MUSIC** *Two hours*  
 A course designed to prepare 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.
331. **ADVANCED ELEMENTARY SCHOOL MUSIC** *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** *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. **TEACHING OF INSTRUMENTAL MUSIC** *Three hours*  
 Problems in the organization of a school instrumental program, beginning with the establishment of elementary school rhythm bands; principles of class instruction in orchestra and band instruments; evaluation of methods of class instruction; orchestra and band organization; repertoire. Must be taken no later than the junior year. Offered second semester. Not offered 1961-62.

#### 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 concentrators 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 or studio class each Thursday at 1:00 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

- 117-118, 217-218, 317-318, 327-328 **VOICE** *One hour*  
 Individual lessons in voice. Fee \$45 per semester.
- 117c-118c, 217c-218c, 317c-318c, 327c-328c **VOICE** *Two hours*  
 Individual lessons for the Music Major concentrating in voice. Fee: \$45 per semester.
- 109-110, 209-210, 309-310, 319-320 **ORGAN** *One hour*  
 Individual lessons in organ. Fee: \$45 per semester. Practice fee: \$15 per semester.

- 109c-110c, 209c-210c, 309c-310c, 319-320c **ORGAN** *Two hours*  
 Individual lessons for the Music Major concentrating in organ. Fee: \$45 per semester. Practice fee: \$15 per semester.
- 141-142, 241-242, 341-342, 351-352 **PIANO** *One hour*  
 Individual lessons in piano. Fee: \$45 per semester.
- 141c-142c, 241c-242c, 341c-342c, 351c-352c **PIANO** *Two hours*  
 Individual lessons for the Music Major concentrating in piano. Fee: \$45 per semester.
- 161-162, 261-262, 361-362, 461-462 **STRINGS** *One hour*  
 Individual lessons in violin, viola, violoncello or bass violin. Fee: \$45 per semester.
- 161c-162c, 261c-262c, 361c-362c, 461c-462c **STRINGS** *Two hours*  
 Individual lessons for the Music Major concentrating in violin, viola, violoncello, or bass violin. Fee: \$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

- 163-164. **STRINGS** *One hour*  
 Class lessons in string instruments for the music major concentrating in Instrumental Music Education.
- 173-174. **WOODWINDS** *One hour*  
 Class lessons in woodwinds for the music major concentrating in Instrumental Music Education.
- 183-184. **BRASSES** *One hour*  
 Class lessons in brass instruments for the music major concentrating in Instrumental Music Education.
193. **PERCUSSION** *One hour*  
 Class lessons in percussion instruments for the music major concentrating in Instrumental Music Education.
- 119-120. **VOICE** *One hour*  
 Class lessons in voice for the music major concentrating in Instrumental Music Education.
- 199-200. **REPERTORY CLASS** *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

*No credit*

The study of representative works of the great masters of choral writing with a view to public performance. Handel's *Messiah* is rendered annually at Christmas time. Another oratorio is presented in the spring. Open to all who meet the requirements of voice and musicianship.

## 107-108. RADIO CHOIR

*One hour*

Performs weekly as the Choir of the Back to God Hour 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.

## 207-208. A CAPPELLA CHOIR

*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

*One hour*

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

## 215-216. ORCHESTRA

*One hour*

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

## Philosophy

PROFESSORS W. H. JELLEMA\*, RUNNER, AND PRINS; ASSOCIATE PROFESSOR WOLTERSTORFF; ASSISTANT PROFESSOR ORLEBEKE\*; MR. BEVERSLUIS

Six-hour requirement for the General College A.B. degree:

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 twenty-seven, 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
In addition, senior majors are required to attend the journal seminars.	

\*On leave of absence during 1961-62.

## ELEMENTARY COURSES

(A student may elect any one of the Elementary Courses without having had previous courses in Philosophy.)

200. LOGIC *Three hours*  
A course in traditional and elementary symbolic logic. Open to qualified Freshmen. Offered each semester.
201. PERSPECTIVES OF PHILOSOPHY *Three hours*  
An introduction to philosophy which emphasizes basic differences in philosophical orientation and perspectives by way of study of the Greek mind in comparison with the Christian, more particularly as articulated by Augustine. Offered first semester.
202. PERSPECTIVES OF PHILOSOPHY *Three hours*  
Similar to 201, except that attention is centered on medieval and modern philosophy. Offered second semester.
205. ELEMENTARY ETHICS *Three hours*  
Emphasis is on the contrast between the "moral commonwealths" of ethical naturalism, and its various forms, of classic pagan and modern idealism, and of Christianity.
220. HISTORY OF PHILOSOPHY: ANCIENT *Three hours*  
Historical and critical study of the philosophical questions raised in the Greek and Hellenistic periods, and of the implicit movement in the proffered solutions. Through Plotinus. Offered each semester.

## INTERMEDIATE COURSES

(Intermediate courses normally presuppose three hours of Philosophy, but are open to all qualified Juniors and Seniors.)

301. HISTORY OF PHILOSOPHY: MEDIEVAL *Three hours*  
Historical and critical study of the Christian philosophical perspective from the beginnings of Christianity to the Renaissance. Offered each semester.
302. HISTORY OF PHILOSOPHY: MODERN *Three hours*  
Historical and critical study of Western philosophy from the Renaissance to Kant. Offered each semester.
303. PHILOSOPHY OF SCIENCE *Three hours*  
A study of philosophical problems arising out of the method and results of modern science.
305. INTERMEDIATE ETHICS *Three hours*  
A course in ethics which presupposes some acquaintance with the history of philosophy. (No credit is allowed for 305 if student has had 205.)
307. POLITICAL PHILOSOPHY *Three hours*  
A history of political thought from the Hebrews to contemporary times, with especial emphasis on the development of democratic ideals and their application.
308. AESTHETICS *Three hours*  
A study of the main features of the aesthetic judgment as exemplified in the fine arts, of the relation of art to the aesthetic, and of the relation of aesthetic value to other values, such as the moral.
320. CONTEMPORARY PHILOSOPHY *Three hours*  
Subject is history of philosophy of the last 100 years, or some major movement of this period.

## ADVANCED COURSES

(Advanced courses normally presuppose six hours of Philosophy, but are open to all qualified *Seniors*.)

- A. 350-379. Advanced courses in history of philosophy. Intensive study of some philosopher or philosophical school of the ancient, the medieval, the modern, or the contemporary period.
351. PLATO Three hours  
Study of the later Platonic dialogues.
352. ARISTOTLE Three hours  
Advanced study of Aristotle.
361. THE PHILOSOPHY OF THOMAS AQUINAS Three hours  
A course in Thomistic thought, including analysis of portions of the *Summa Theologica*.
365. KANT Three hours  
Study of the *Critique of Pure Reason*. Offered second semester.
- B. 380-399. Advanced courses in systematic disciplines of philosophy.
380. JOURNAL SEMINAR One hour  
Meeting with the Staff, Seniors majoring in Philosophy are required to read and to present papers on articles appearing in the philosophical journals.
381. ADVANCED LOGIC Three hours
395. METAPHYSICS Three hours

## Physical Education

PROFESSOR STEEN; INSTRUCTORS TUUK AND ZUIDEMA; MR. VROON AND MRS. BYKER

### REQUIRED PHYSICAL EDUCATION

Courses meet twice per week. Each course runs for a full semester.

Men students are required to take three semesters of physical education of the four semesters in their freshman and sophomore years. In these three semesters one course must be selected in individual sports (180 or 280 series), one course in team sports (160 or 260 series), and one course in Foundations of Physical Education (140 series). The Foundations course must be taken in the freshman year.

Women students are required to take physical education for two of the four semesters in their freshman and sophomore years. In these two semesters one course must be selected in individual sports (180 series) and one course in team sports (160 series).

Student should select the section of a course that fits their ability level. 100 series sections are intended for beginners while 200 series courses are intended for the more advanced students. Credit will be given for only one course in each instructional activity.

The physical education requirements must be completed by the end of the sophomore year. Juniors and Seniors not fulfilling their requirements will be assigned extra work upon enrolling in a course.

I Foundations: 140 — Foundations and Tumbling; 141 — Foundations and Physical Fitness; 142 — Foundations and Track and Field.

II Team: 160 or 260 — Soccer and Basketball; 161 or 261 — Soccer and Volleyball; 162 or 262 — Touch Football and Volleyball; 163 or 263 — Touch Football and Basketball; 164 or 264 — Softball and Basketball; 165 or 265 — Softball and Volleyball; 169 — Field Hockey and Volleyball.

III Individual and Dual: 180 or 280 — Tennis and Badminton; 181 or 281 — Tennis and Archery; 182 or 282 — Archery and Badminton; 183 or 283 — Combatives and Golf; 188 — Bowling and Tennis; 189 — Tennis and Body Mechanics.

### PROFESSIONAL COURSES

Students desiring the degree of A.B. in Education may obtain a minor in this department. They should select twelve hours from the courses listed here. Biology 105 and 106 are required for the minor program.

Minor students in physical education are expected to take all the courses offered in Required Physical Education program. They should consult with the head of the department for individual scheduling of these courses.

Students should meet requirements for the Red Cross First Aid Certificate. This course will be offered each semester.

104. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION *Two hours*

Traces the history of Physical Education from its early origin to present-day trends. Considers the relation of Physical Education to life and ideas. Acquaints the student with the profession of Physical Education.

203. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION *Three hours*

A study of the representative programs of Physical Education and evaluation of these programs.

204. COMMUNITY RECREATION *Two hours*

A study of the development, administration, and use of leisure time within the community and of the community agencies organized to meet present-day recreational needs. Not open to Freshmen.

205. COACHING OF BASKETBALL *Two hours*

A consideration of the fundamentals that make up the game of basketball; team conditioning, styles of play, and team strategy.

206. COACHING OF SPRING SPORTS *Three hours*

A study of the fundamentals of track, tennis, golf, and baseball. Methods of teaching and coaching of these sports are also discussed. Not open to Freshmen.

222. TEAM SPORTS FOR WOMEN *Three hours*

A study of fundamentals, history, and teaching methods of basketball, softball, soccer, and volleyball.

223. TEACHING OF PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS *Three hours*

Theoretical and practical methods in the teaching of play activities to children of the elementary grades.

322. INDIVIDUAL SPORTS FOR WOMEN *Three hours*

A study of the background, fundamentals, and teaching methods of tennis, golf, badminton, archery and bowling.

### Physical Science

ASSOCIATE PROFESSOR BROENE; ASSISTANT PROFESSOR VANDER LUGT; INSTRUCTOR GRIFFIOEN

205. INTRODUCTION TO PHYSICAL SCIENCE *Three hours*

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

206. INTRODUCTION TO PHYSICAL SCIENCE *Three hours*

Continuation of 205, which is also a prerequisite.

### Physics

PROFESSOR WASSINK; ASSISTANT PROFESSORS BOSSCHER AND R. FABER

A student who plans to do graduate work in Physics should complete Physics 205 and 206, as well as all of the 300-level Physics courses. In related fields, he

should complete the Mathematics sequence 111, 112, 211, 212 and 304 before the end of the Junior year, and Mathematics 306 and 310 in the Junior or Senior year. Four semester of Algebra, two semesters of Geometry and one semester of Plane Trigonometry should be completed in high school, if possible. A reading knowledge of two modern foreign languages is desirable for those planning to enter graduate school.

201. GENERAL PHYSICS *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 *Four hours*

A continuation of 201 which is a prerequisite.

203. GENERAL PHYSICS *Six hours*

Mechanics, sound, and heat. (Required of all engineering students.) At least half the semester is devoted to elementary mechanics; the remainder of the time to sound and heat. Many experimental illustrations. Five recitations and one two- to three-hour laboratory period a week. Prerequisite: plane trigonometry.

204. GENERAL PHYSICS *Six hours*

Electricity and light. (Required of all engineering students.) A continuation of 203. It takes up the fundamental phenomena and laws of electricity and light with ample class illustrations. Five recitations, and one two- to three-hour laboratory period a week.

205. GENERAL PHYSICS *Four hours*

For students majoring in physics or chemistry or minoring in physics. An introduction to the major fields of physics: mechanics, heat, wave motion, electricity, and magnetism. Calculus will be used. Prerequisite: Mathematics 112 or its equivalent.

206. GENERAL PHYSICS *Four hours*

Continuation of 205, which is a prerequisite.

NOTE: Prerequisite for the following courses are Physics 204 or 206, and Mathematics 212.

301. MECHANICS *Three hours*

The fundamental principles of Newtonian Mechanics applied to a single particle, a system of particles, and to the motion of a rigid body; a discussion of central force motion with applications to Kepler's laws and Rutherford scattering laws; the principle of virtual displacements, d'Alembert's principle and Lagrange's equations; an introduction to the special theory of relativity. Not offered 1960-61.

302. MECHANICS *Three hours*

Continuation of 301 which is prerequisite. Not offered 1960-61.

303. MODERN PHYSICS *Three hours*

Elementary particles, relativistic dynamics, atomic structure and spectral lines, quantum mechanics, Xrays, molecular structure, nuclear reactions, particle accelerators, nuclear fission and cosmic rays.

304. MODERN PHYSICS *Three hours*

Continuation of 303 which is a prerequisite.

305. THERMODYNAMICS *Three hours*

The principles of Thermodynamics with limited application to the kinetic theory of gases, chemical and electromagnetic systems.

306. OPTICS *Three hours*  
The phenomena of interference, diffraction and polarization. Two lectures and one laboratory period a week.
307. ELECTRICITY AND MAGNETISM *Four hours*  
The elementary theory of electrostatics, magnetism, direct current and alternating current circuit theory, and electromagnetic waves. Laboratory work will consist of electrical measurements and elementary electronics. Three lectures and one laboratory period a week.
308. ELECTRICITY AND MAGNETISM *Four hours*  
Continuation of 307 which is a prerequisite. Three lectures and one laboratory period a week.
320. PHYSICS RESEARCH *Three hours*  
Library and laboratory research on an assigned problem. Open only to approved Seniors majoring in physics.

### Political Science

ASSISTANT PROFESSOR W. DE VRIES; INSTRUCTOR WESTRA

A political science major requires a minimum of twenty-four 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 the following six hours:

#### 203-204 Introduction

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 *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 *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 *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. Not offered 1961-62.

206. **GOVERNMENT OF MODERN STATES** *Three hours*  
Continuation of 205. Includes brief treatment of the governments of some minor European states: Switzerland, the Netherlands. Not offered 1961-62.
301. **STATE AND LOCAL GOVERNMENT** *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** *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** *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** *Three hours*  
Representative political theorists from the Reformation to the present day.
307. **INTERNATIONAL POLITICS** *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** *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** *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** *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

PROFESSORS DALING AND C. PLANTINGA; ASSISTANT PROFESSOR BIJKERK\*; INSTRUCTOR WESTMAAS\*\*

201. **GENERAL PSYCHOLOGY** *Three hours*  
An introductory course intended to give the beginner some orientation to the field of psychology in general in respect to viewpoints, methods, and assumptions; the major emphasis is on the motivational, emotional, and cognitional aspects of the normal adult human being. It is advisable that the student have had a course in human physiology. Not open to Freshmen, except by special permission. Offered both semesters.
204. **CHILD PSYCHOLOGY** *Three hours*  
A study of the physical, motor, social, emotional, linguistic, intellectual and valuational development of the child. An attempt is made to trace these aspects of the human being's development from babyhood through adolescence. Course 201, or its equivalent, is a prerequisite. Offered both semesters.

\*On leave of absence during 1961-62.

\*\*On leave of absence during the first semester 1961-62.

207. **ADOLESCENT PSYCHOLOGY** *Two or three hours*  
 A specialized course in developmental psychology directed specifically to the period from puberty to adulthood. Prerequisite: 201 and 204. Not offered 1961-62.
209. **MENTAL HYGIENE** *Two or three hours*  
 A study of personal attitudes toward reality and the solution of maladjustment by means of integration. Prerequisite: 212. Offered second semester.
211. **CLINICAL PSYCHOLOGY** *Three hours*  
 An introduction to the science, techniques, and art of employing psychological means to promote the welfare or mental health of a person. May be offered second semester.
212. **THE PSYCHOLOGY OF ABNORMAL PEOPLE** *Three hours*  
 A study of disorders of sensation, perception, association, and so forth. Some study is made of hypnosis, hysteria, and other subjects usually considered under the heading of abnormal psychology, and especially, too, the phenomena and problems of the psychoses. Psychology 201, or its equivalent, is a prerequisite. Offered both semesters.
214. **THEORIES OF PERSONALITY** *Three hours*  
 An introduction to modern American and European theories concerning the psychological structure and dynamics of the human person. Prerequisite: 6 hours of psychology. Not offered 1961-62.
300. **ADVANCED GENERAL PSYCHOLOGY** *Three hours*  
 A more detailed and thorough examination than is possible in Psychology 201 of the major psychological functions of man. Emphasis will be placed on problems involved in perceiving, imagining and thinking. Prerequisite: 201. Offered first semester.
301. **HISTORY OF PSYCHOLOGY** *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. Readings and discussions. May be offered the second semester.
302. **THEORIES OF LEARNING** *Three hours*  
 A presentation of the important conclusions of modern investigations of learning and forgetting and an evaluation of the various contributions to their explanation. The place of learning theory in general psychology is stressed. Permission of instructor required. Offered second semester.
304. **CONTEMPORARY SCHOOLS OF PSYCHOLOGY** *Three hours*  
 A critical examination of the principal theories, systems and schools of modern psychology and their philosophical implications. Readings, discussions and individual investigations will constitute the course. Not offered 1961-62.
308. **EXPERIMENTAL PSYCHOLOGY** *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. Lectures and laboratory. 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. Offered second semester 1961-62.
310. **SOCIAL PSYCHOLOGY** *Three hours*  
 A study of individual human behavior in reaction to social environment, of the consequences of such social interaction for human personality, and of the behavior and consciousness of groups. Prerequisite: Psychology 201 and Sociology 203 or their equivalents. Offered first semester by department of Sociology, second semester by department of Psychology.

312. PSYCHODIAGNOSTICS *Three hours*

This course aims at giving 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. Not offered 1961-62.

## Sociology

ASSISTANT PROFESSOR ROTTMAN; INSTRUCTOR HOLSTEGE

A candidate for the A.B. degree in the General College course or in the Education course may select sociology as a major field. He should complete the subjects prescribed for General College (see p. 54) or the Education course (see p. 65). To complete the major group (Group III) requirements he should elect 24 hours in sociology.

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

203. PRINCIPLES OF SOCIOLOGY *Three hours*

A study of the structure, functions and changes of social groups, stressing the important role that group relationships play both for the individual and for society. Fundamental concepts are discussed and an introductory view of the general field of sociology is presented. Not open to Freshmen, except by special permission.

204. SOCIAL PROBLEMS *Three hours*

An investigation of the primary and secondary causes of social maladjustments in general and a survey of a number of major social problems confronting American society. These include population problems, poverty, crime and delinquency, divorce, race and minority cleavages, and problems of farm and village. It is desirable, but not necessary, to precede this course with 203.

206. RURAL AND URBAN COMMUNITY *Three hours*

A comparative analysis of culturally variant rural and urban communities in the United States. The emphasis is on function, process, value systems and styles of life, rather than on community structure. The suburban, or "fringe" development is considered as well as rural-urban relationships. Prerequisite: 203 or 204.

304. THE FAMILY *Three hours*

This course aims at an intensive study of the history of the family as a social and educational institution, and at a thorough discussion of the divorce problem and other problems connected with modern family life. Prerequisite: 203 and 204, or their equivalents.

305. THE FIELDS OF SOCIAL WORK *Three hours*

A survey of the various types of social work, including individual case work, group work, and community organization. Agencies set up to work with deviate forms of behavior and situations are studied both theoretically and in operation. Should be valuable for teachers as well as those contemplating doing social work.

306. CRIMINOLOGY AND DELINQUENCY *Three hours*

A study of the primary and secondary causes for, manifestations of, and ameliorative and preventive programs for criminal and delinquent behavior. Emphasis is placed on the implications for various community institutions, including school and church. Prerequisite: 203 or 204, or equivalent.

309. EDUCATIONAL SOCIOLOGY *Three hours*

The school as a social institution, School-Community relations, social control of education, and structure of school society. (Also listed as Education 309.)

310. **SOCIAL PSYCHOLOGY (Psychology 310)** *Three hours*  
Human behavior in relation to social environment, the shaping of personality through group membership, collective behavior. (Credit applied either as Psychology or Sociology.)
315. **INTRODUCTION TO SOCIAL WORK** *Three hours*  
The analysis of social work principles, problems, and methods based upon theoretical and case material. Prerequisite: three courses in Sociology. Open to Seniors and to selected Juniors. Prerequisite: 203, 305 or equivalent.
316. **STATISTICS** *Three hours*  
A course in statistics is offered in the Mathematics department.
317. **SOCIAL ANTHROPOLOGY** *Three hours*  
A study of the origin and development of culture with a critical survey of prevailing theories of cultural origins such as social evolution and cultural relativism. The course will include a comparative analysis of social institutions and culture patterns, those of the United States and of widely different societies, past and present. Prerequisite: 203 or equivalent.
318. **HISTORY OF SOCIOLOGY** *Three hours*  
The development of sociology, including its European backgrounds and early beginnings in the twentieth century in America. Calvinistic appraisal of sociological pioneers.
320. **PROSEMINAR IN SOCIOLOGICAL RESEARCH** *Three hours*  
How to set up a problem for research, techniques of collecting data, sources of data, uses of tables and charts, and the preparation of research reports. Prerequisite: at least 12 hours of Sociology. Open to Seniors and selected Juniors by permission. Taught both semesters.

## Speech

ASSISTANT PROFESSOR BERGHUIS; ASSOCIATE PROFESSOR JANSSEN; ASSISTANT PROFESSOR DE KOSTER; INSTRUCTOR VANDE GUCHTE; MRS. BOEVE, DIRECTOR OF DRAMA

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

### PRACTICE — THEORY COURSES

103. **FUNDAMENTALS OF SPEECH — I** *Two hours*  
Basic principles of public speaking on the college level, with the aim of developing proper mental, vocal, and physical habits. Offered both semesters.
104. **FUNDAMENTALS OF SPEECH — II** *Two hours*  
Continuation of 103, with emphasis on longer speeches, motivation, and rhetoric. Panel discussions, symposiums, and different types of speeches will be presented. Prerequisite: 103. Offered both semesters.
106. **DICTION FOR THE FOREIGN STUDENT** *Non-credit*  
Particularly designed to aid the foreign student taking the pre-Seminary course who has not completely mastered the English language. Intensive drill in phonetics. Open to others by permission. Offered first semester.
202. **PARLIAMENTARY PROCEDURE** *One hour*  
A study of the basic principles of parliamentary procedure. Opportunity will be given for developing skill in the handling of the rules of parliamentary procedure. Especially recommended for Pre-Seminary, Pre-Law, and education students. Offered second semester.
204. **ANCIENT ORATORS AND THEORIES OF SPEECH** *Two hours*  
Analytical study of ancient orators and rhetorical theory, pre-Demosthenes through Quintilian. Not open to Freshmen. Offered first semester.

205. **ADVANCED SPEECH COMPOSITION** *Two hours*  
 Study of the psychological and rhetorical techniques involved in speech composition. Speeches and oration. Intended particularly for Juniors in the Pre-Seminary course. Offered first semester.
207. **INTRODUCTION TO SPEECH BASED ON THE GREAT BOOKS** *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. Offered first semester.
208. **SPEECH BASED ON THE GREAT BOOKS** *Two hours*  
 Each student will choose one of the books from the Adler list and use it as a basis for his speeches during the semester. Emphasis on speech. Prerequisite: 207. Offered second semester.
215. **PRINCIPLES OF SPEECH CORRECTION** *Two hours*  
 A one-semester course especially designed for the elementary and secondary school teachers. A detailed study will be made of the types, nature, and causes of speech defects, as well as of the principles and methods of speech correction. Not open to Freshmen, except by special permission. Offered both semesters.
219. **PRINCIPLES OF DRAMATIC PRODUCTIONS** *Three hours*  
 A study of the theory and principles of drama as revealed in representative plays from the Greek through the modern period. With a view to training the prospective coach, attention will be given to the technical aspects of production. Students will be trained in acting and in directing by means of classroom presentations of dramatic scenes. Offered both semesters.
301. **ADVANCED SPEECH** *Two hours*  
 A practice course, designed for Pre-Seminary students. Open to others only by permission. Offered second semester.
303. **INTERPRETATIVE READING** *Three hours*  
 The principles and techniques of interpretation and expression. Oral interpretation of prose and poetry. Intensive study of representative selections. Offered both semesters.
304. **ADVANCED INTERPRETATION** *Three hours*  
 Continuation of 303. Application of its principles to drama. Study of development from Greek to modern drama. Collateral reading. Offered second semester.
309. **SPEECH FOR THE CLASSROOM TEACHER** *Three hours*  
 Designed to: (1) improve the prospective teacher's vocal habits; (2) train the student in the use of the International Phonetic Alphabet; (3) aid the prospective teacher in handling speech improvement in the classroom. Offered both semesters.
311. **ORAL DISCUSSION AND DEBATE** *Two hours*  
 Theory and practice of discussion and debate in their various forms. The use of analysis, evidence, and argumentation is developed. Offered first semester.
330. **THE TEACHING OF SPEECH** *One hour*  
 Methods of teaching speech in the secondary schools. Attention will be given to the handling of extracurricular forensic activities and assembly programs. Prerequisite: a minor in speech. Offered second semester.

#### 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**  
 League Debaters *Two hours per year*  
 Tournament Debaters *One hour per year*

**SUMMARY OF ENROLLMENT**  
**Fall 1960 and Summer 1961**

Seniors .....	389
Juniors .....	473
Sophomores .....	547
Freshmen .....	758
Post-Graduate .....	23
Special .....	42
Summer Session, 1961 .....	540
	2772
Total .....	2772

### Bequests

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

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

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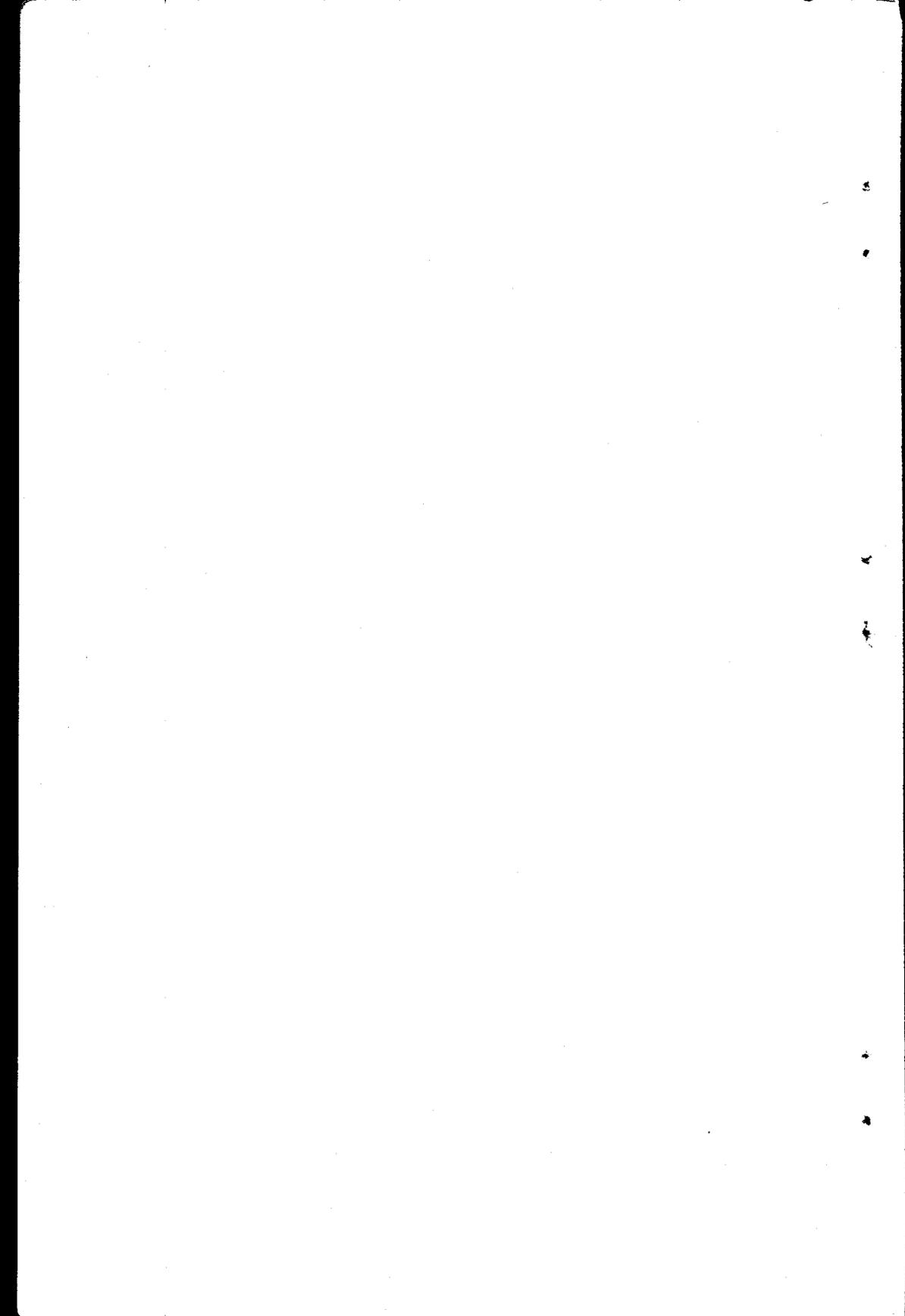
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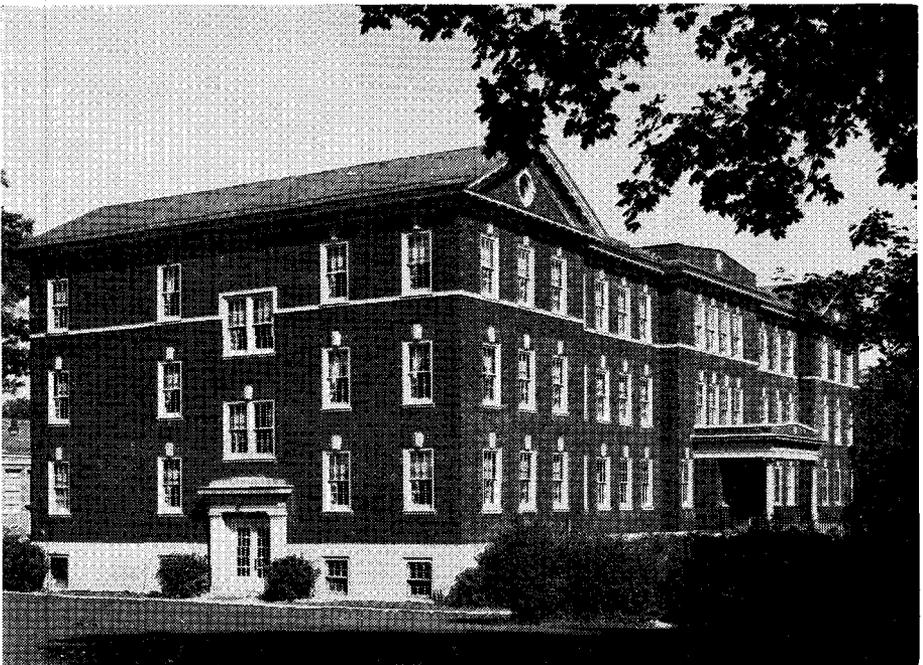
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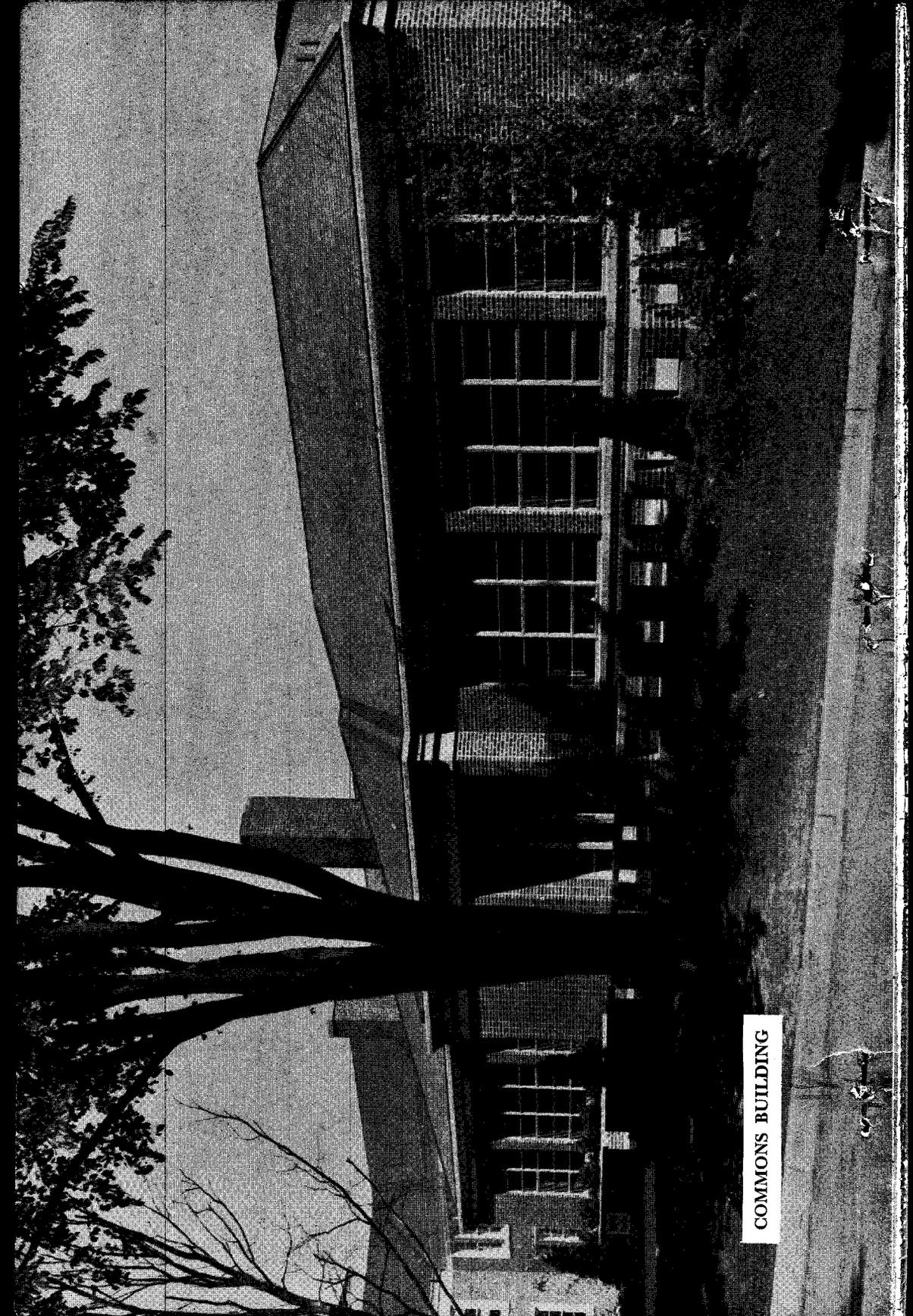




LIBRARY



DORMITORY



COMMONS BUILDING