

1959

# 1959-1960 Xavier University The College of Arts and Sciences, The Graduate School Course Catalog

Xavier University, Cincinnati, OH

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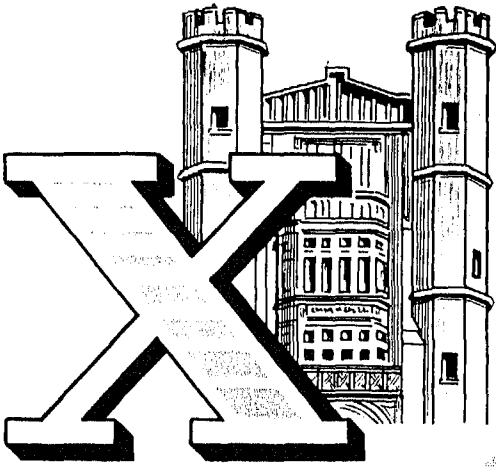
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*Xavier University*

CATALOGUE  
1959-1960

THE COLLEGE OF  
ARTS AND SCIENCES

THE GRADUATE SCHOOL



XAVIER UNIVERSITY  
CINCINNATI 7, OHIO

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*Alumni affairs:*

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*Evening College:*

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The Dean of Freshmen

*Graduate study:*

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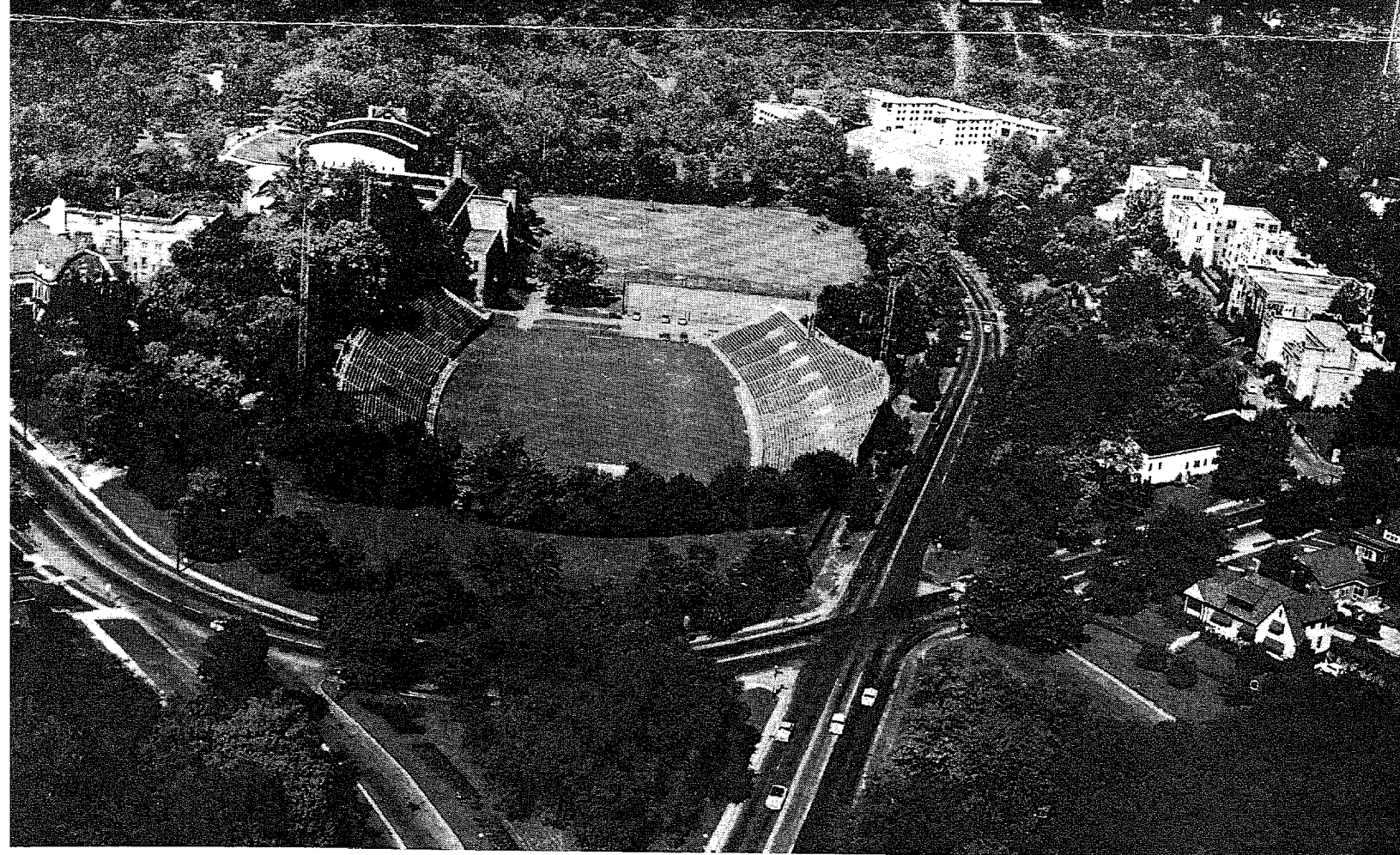
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The Bursar

*Veterans' education:*

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AERIAL VIEW OF THE AVONDALE-EVANSTON CAMPUS LOOKING NORTH





# XAVIER UNIVERSITY

OPERATED BY THE JESUIT FATHERS

*Ad Majorem Dei Gloriam*



THE COLLEGE OF ARTS AND SCIENCES

— EVANSTON CAMPUS

— MILFORD COLLEGE

THE GRADUATE SCHOOL

1958-1959

ANNOUNCEMENTS FOR 1959-1960

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Victory Parkway

Cincinnati 7, Ohio



## Table of Contents

	PAGE
UNIVERSITY CALENDAR . . . . .	5
UNIVERSITY ADMINISTRATION . . . . .	8
THE UNIVERSITY . . . . .	32
UNIVERSITY SERVICES, SCHOLARSHIPS, AND ORGANIZATIONS . . . . .	38
COLLEGE OF ARTS AND SCIENCES:	
Admission . . . . .	57
Registration . . . . .	63
Fees . . . . .	65
Academic Regulations . . . . .	68
Curricular Information . . . . .	73
THE GRADUATE SCHOOL . . . . .	199
CHRONICLE . . . . .	213
COMMENCEMENT PROGRAM, 1958 . . . . .	216
INDEX . . . . .	235



1959

JANUARY							MAY							SEPTEMBER						
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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4	5	6	7	8	9	10	3	4	5	6	7	8	9	6	7	8	9	10	11	12
11	12	13	14	15	16	17	10	11	12	13	14	15	16	13	14	15	16	17	18	19
18	19	20	21	22	23	24	17	18	19	20	21	22	23	20	21	22	23	24	25	26
25	26	27	28	29	30	31	24	25	26	27	28	29	30	27	28	29	30	...	...	...
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8	9	10	11	12	13	14	7	8	9	10	11	12	13	4	5	6	7	8	9	10
15	16	17	18	19	20	21	14	15	16	17	18	19	20	11	12	13	14	15	16	17
22	23	24	25	26	27	28	21	22	23	24	25	26	27	18	19	20	21	22	23	24
...	...	...	...	...	...	...	28	29	30	...	...	...	...	25	26	27	28	29	30	31
MARCH							JULY							NOVEMBER						
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	8	9	10	11	12	13	14
15	16	17	18	19	20	21	12	13	14	15	16	17	18	15	16	17	18	19	20	21
22	23	24	25	26	27	28	19	20	21	22	23	24	25	22	23	24	25	26	27	28
29	30	31	...	...	...	...	26	27	28	29	30	31	..	29	30	...	...	...	...	...
APRIL							AUGUST							DECEMBER						
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12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
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26	27	28	29	30	...	...	23	24	25	26	27	28	29	27	28	29	30	31	...	...
...	...	...	...	...	...	...	30	31	...	...	...	...	...	...	...	...	...	...	...	...

# University Calendar, 1959 - 1960

## First Semester, 1959-1960

- SEPT. 15, TUESDAY . . . . . { Out-of-town freshmen report to Director of Housing,  
9 A.M. - 5 P.M.
- SEPT. 16, WEDNESDAY . . . . . { Registration of seniors { A-L, 9:00 - 10:30 A.M.  
M-Z, 10:30 - 11:45 A.M.  
Registration of juniors { M-Z, 1:00 - 2:30 P.M.  
A-L, 2:30 - 4:00 P.M.  
Freshmen Orientation begins 9:00 A.M. All freshmen,  
local and out-of-town, required to attend.
- SEPT. 17, THURSDAY . . . . . { Registration of sophomores { A-L, 9:00 - 10:30 A.M.  
M-Z, 10:30 - 11:45 A.M.  
Registration of freshmen, 1:00 - 4:00 P.M.  
Alphabetically, as assigned during Orientation.  
Registration, Graduate School, 6:30 - 8:30 P.M.
- SEPT. 18, FRIDAY . . . . . { Registration of freshmen, 9:00 - 11:45 A.M.  
and 1:00 - 4:00 P.M.  
Registration, Graduate School, 6:30 - 8:30 P.M.
- SEPT. 19, SATURDAY . . . . . Registration, Graduate School, 9:00 A.M. - 3:00 P.M.
- SEPT. 21, MONDAY . . . . . { Instruction begins, 8:30 A.M., day undergraduate divi-  
sion.  
Registration, Graduate School, 6:30 - 8:30 P.M.
- SEPT. 22, TUESDAY . . . . . Instruction begins, Graduate and Evening Divisions.
- SEPT. 23, WEDNESDAY . . . . . { Mass of the Holy Spirit, 9:00 A.M.; no classes, under-  
graduate day division.
- SEPT. 26, SATURDAY . . . . . First Saturday classes in Graduate School.
- SEPT. 28, MONDAY . . . . . Final day of late registration, undergraduate division.
- OCT. 3, SATURDAY . . . . . Final day of late registration, Graduate School.
- OCT. 23, WEDNESDAY . . . . . Final date for assignment of "W" in any course.
- NOV. 9, MONDAY . . . . . Mid-semester grades due.
- NOV. 10, TUESDAY . . . . . { Requiem Mass for deceased benefactors, professors,  
alumni, 9:00 A.M.; no classes, undergraduate division.
- NOV. 25, WEDNESDAY . . . . . { 4:30 P.M. Thanksgiving recess begins, graduate and  
undergraduate divisions.
- NOV. 30, MONDAY . . . . . { Classes resume, 8:30 A.M., graduate and undergraduate  
divisions.
- DEC. 8, TUESDAY . . . . . { Feast of the Immaculate Conception, a holyday of  
obligation; holiday, graduate and undergraduate divi-  
sions.
- DEC. 18, FRIDAY . . . . . { Christmas vacation begins after last class, under-  
graduate day division, except for Saturday classes.
- DEC. 19, SATURDAY . . . . . { Christmas vacation begins after last class, Graduate  
School and Saturday classes.

1960

JANUARY							MAY							SEPTEMBER						
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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10	11	12	13	14	15	16	15	16	17	18	19	20	21	11	12	13	14	15	16	17
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24	25	26	27	28	29	30	29	30	31	..	..	..	..	25	26	27	28	29	30	..
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14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..
MARCH							JULY							NOVEMBER						
..	..	1	2	3	4	5	..	..	..	..	..	1	2	..	..	1	2	3	4	5
6	7	8	9	10	11	12	3	4	5	6	7	8	9	6	7	8	9	10	11	12
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27	28	29	30	31	..	..	24	25	26	27	28	29	30	27	28	29	30	..	..	..
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APRIL							AUGUST							DECEMBER						
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17	18	19	20	21	22	23	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31	..	..	..	25	26	27	28	29	30	31

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JAN. 4, MONDAY . . . . .	{	Classes resume, 8:30 A.M., graduate and undergraduate divisions.
JAN. 16, SATURDAY . . . . .		Senior comprehensive examinations.
JAN. 18, MONDAY . . . . .	{	Final date for submission of theses, first semester.
JAN. 25, MONDAY through SATURDAY . . . . .		Semester examinations, graduate and undergraduate divisions.
JAN. 30, SATURDAY . . . . .		End of first semester, graduate and undergraduate divisions.
FEB. 1-3, MONDAY-WEDNESDAY . . . . .	{	Freshman retreat.

Second Semester, 1959-1960

FEB. 3, WEDNESDAY . . . . .	{	Registration of seniors	M-Z, 9:00 - 10:30 A.M.
			A-L, 10:30 - 11:45 A.M.
FEB. 4, THURSDAY . . . . .	{	Registration of juniors	A-L, 1:00 - 2:30 P.M.
			M-Z, 2:30 - 4:00 P.M.
	{	Registration, Graduate School, 6:30 - 8:30 P.M.	
		Registration of sophomores	M-Z, 9:00 - 10:30 A.M.
FEB. 5, FRIDAY . . . . .	{	Registration of freshmen	A-L, 10:30 - 11:45 A.M.
			S-Z, 1:00 - 2:30 P.M.
			I-R, 2:30 - 4:00 P.M.
FEB. 6, SATURDAY . . . . .	{	Registration, Graduate School, 6:30 - 8:30 P.M.	
		Registration of freshmen, A-H, 10:30 A.M.	
FEB. 8, MONDAY . . . . .	{	Regular registration ends, 11:45 A.M.	
FEB. 13, SATURDAY . . . . .		Registration, Graduate School, 6:30 - 8:30 P.M.	
FEB. 15, MONDAY . . . . .	{	Registration, Graduate School, 9:00 A.M. - 3:00 P.M.	
FEB. 20, SATURDAY . . . . .		Instruction begins, 8:30 A.M., graduate and undergraduate divisions.	
MAR. 16, WEDNESDAY . . . . .	{	First Saturday classes in Graduate School.	
MAR. 25, FRIDAY . . . . .		Final day of late registration, undergraduate division.	
MAR. 28, MONDAY . . . . .	{	Final day of late registration, Graduate School.	
APR. 11-16 . . . . .		Final date for assignment of "W" in any course.	
APR. 11-13, MONDAY through WEDNESDAY . . . . .	{	Final date for filing application for degrees to be granted in June, 1960.	
APR. 13, WEDNESDAY . . . . .		Mid-semester grades due.	
APR. 18, MONDAY . . . . .	{	No classes during Holy Week, Graduate School.	
MAY 14, SATURDAY . . . . .		Retreat for all undergraduate students, except freshmen.	
MAY 16, MONDAY . . . . .	{	Easter recess begins after last class, undergraduate division.	
MAY 23, MONDAY through SATURDAY . . . . .		Classes resume, 8:30 A.M.	
JUNE 8, WEDNESDAY . . . . .	{	Senior comprehensive examinations.	
		Final date for submission of senior theses.	
	{	Semester examinations, graduate and undergraduate divisions.	
		Commencement Exercises.	

Summer Sessions

JUNE 20, MONDAY . . . . .	{	First summer session begins. Summer science session begins.
JULY 4, MONDAY . . . . .		Independence Day, a holiday.
JULY 29, FRIDAY . . . . .	{	First summer session ends.
AUG. 1, MONDAY . . . . .		Second summer session begins.
AUG. 15, MONDAY . . . . .	{	Feast of the Assumption, holyday of obligation; holiday.
SEPT. 2, FRIDAY . . . . .		Second summer session ends.

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*Instructor in Sociology, 1957 -*

EDWIN H. RABE

Indus. Eng., University of Cincinnati

*Lecturer in Business Administration, 1954 -*

REV. PATRICK H. RATTERMAN, S.J.

Litt.B., Xavier University; S.T.L., Loyola University, Chicago

*Instructor in Theology, 1953 - ; Director of Housing, 1955 - ; Dean of Men, 1952 -*

REV. JOHN H. REINKE, S.J.

A.B., Ph.L., M.A., S.T.L., Loyola University, Chicago

*Instructor in Psychology, 1954 - 1957; Assistant Professor of Psychology, 1957 -*

PAUL J. RIESELMAN

Ph.B., Xavier University

*Lecturer in German, 1948 - 1951; Instructor in Modern Languages, 1951 -*

ARNOLD ROTHSTEIN

B.M.E., New York Maritime College; M.S., Massachusetts Institute of Technology; Cand. D.C.S., Harvard University

*Lecturer in Business Administration, 1956 -*

DONALD J. RUBERG

B.S.Ed., Xavier University

*Instructor in Physical Education and Freshman Basketball and Varsity Baseball Coach, 1956 -*

JOSEPH F. SANTNER

B.S., M.S., St. Louis University

*Instructor in Mathematics, 1955 - 1958; Assistant Professor of Mathematics, 1958 -*

DUANE H. SAVELLE, Capt., Arty.

*Assistant Professor of Military Science and Tactics, 1956 -*

ALFRED E. SCHLEF

B.S., M.A., Xavier University

*Lecturer in Business Administration, 1958 -*

CLEMENT J. SCHUCK

B.S., Xavier University

*Lecturer in Economics, 1949 -*

HOWARD G. SCHULTZ

B.S. in B.A., Xavier University; M.A., University of Cincinnati;

Ph.D., University of Pittsburgh

*Assistant Professor of Business Administration, 1957 -*

JACOB W. SCHWEIZER

B.S. in B.A., Xavier University

*Lecturer in Accounting, 1954 -*

GEORGE C. SELZER

B.S.C., M.S.C., Xavier University

*Assistant Professor of Accounting, 1947 - 1956; Associate Professor of Accounting, 1956 - ; Chairman, Department of Accounting, 1948 -*

LAWRENCE W. SELZER

B.S.C., Xavier University

*Lecturer in Taxation, 1945 -*

JOSEPH H. SETTELMAYER

LL.B., Salmon P. Chase College of Law

*Lecturer in Business Law, 1945 -*

REV. THOMAS M. SHIELDS, S.J.

Ph.B., Ph.L., M.A., S.T.L., Loyola University, Chicago

*Instructor in Theology, 1953 -*

\*REV. W. EUGENE SHIELS, S.J.

A.B., Gonzaga University; M.A., St. Louis University; Ph.D., University of California

*Professor of History, 1946 - ; Chairman, Department of History and Political Science, 1946 -*

WILLIAM E. SMITH

B.S. in B.A., M.B.A., Xavier University

*Lecturer in Accounting, 1956 - 1958; Instructor in Accounting, 1958 -*

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\*On leave of absence.



CLARENCE A. SOMMER

B.S., Butler University; M.A., Miami University; Ph.D., University of Michigan

*Assistant Professor of Education, 1948 - 1954; Associate Professor of Education, 1954 -*

ROBERT M. STAMPER, Sgt.

*Assistant Instructor in Military Science and Tactics, 1958 -*

CHARLES E. STEVENS, Sgt.

*Assistant Instructor in Military Science and Tactics, 1958 -*

REV. PAUL D. SULLIVAN, S.J.

A.B., St. Louis University; M.A., Ph.D., Marquette University

*Associate Professor of English, 1945 - 1957; Professor of English, 1957 -*

REV. PAUL J. SWEENEY, S.J.

A.B., Xavier University; M.A., S.T.L., St. Louis University

*Professor of English, 1929 -*

JOHN F. TAFURI

B.S., M.S., Ph.D., Fordham University

*Instructor in Biology, 1951 - 1955; Assistant Professor of Biology, 1955 -*

JOHN G. TICH

A.B., Marquette University; M.A., University of Chicago; Ph.D. Cand., University of Notre Dame

*Instructor in Philosophy, 1957 -*

REV. STANLEY C. TILLMAN, S.J.

A.B., Ph.L., M.A., S.T.L., Loyola University, Chicago; Ph.D., St. Louis University

*Instructor in Philosophy, 1953 - 1955; Assistant Professor of Philosophy, 1955 - 1958; Associate Professor of Philosophy, 1958 - ; Acting Chairman, Department of Philosophy, 1954 - 1955; Chairman, Department of Philosophy, 1955 -*

A. RAYMOND TILTON

B.S.C., Bliss Normal College; M.Ed., Xavier University

*Instructor in Accounting, 1947 - 1950; Assistant Professor of Accounting, 1950 -*

REV. HARKER E. TRACY, S.J.

A.B., Holy Cross College; S.T.B., Loyola University, Chicago  
*Instructor in Theology and Philosophy, 1957 -*

ANTHONY TRAMPUS

M.S., George Washington University; B.S., Ph.D., Case Institute  
*Lecturer in Mathematics, 1958 -*

MATIAS G. VEGA

*Licenciado, Ph.D., University of Havana, Cuba*  
*Instructor in Modern Languages, 1954 - 1956; Assistant Professor*  
*of Modern Languages, 1956 - ; Associate Director, Hispanic Insti-*  
*tute, 1956 -*

ARTHUR W. VOLCK

A.B., Xavier University  
*Lecturer in Economics, 1946 -*

REV. LEO J. VOLLMEYER, S.J.

A.B., St. John's University; M.S., St. Louis University  
*Professor of Physics, 1942 -*

THOMAS G. WACK

A.B., M.A., University of Notre Dame  
*Instructor in English, 1954 - 1957; Assistant Professor of English,*  
*1957 -*

REV. THEODORE W. WALTERS, S.J.

M.A., St. Louis University; S.T.L., Loyola University, Chicago  
*Instructor in Classical Languages, 1958 -*

HAROLD H. WEGMAN

B.B.A., University of Cincinnati; M.B.A., Xavier University  
*Lecturer in Economics, 1958 -*

KARL P. WENTERSDORF

M.A., Xavier University  
*Instructor in English, 1956 - 1958; Assistant Professor of English,*  
*1958 -*

REV. JOHN J. WENZEL, S.J.

A.B., S.T.L., Loyola University, Chicago; M.Ed., Xavier University  
*Instructor in Classical Languages and Theology, 1948 - 1954;*  
*Assistant Professor of Theology and Sociology, 1954 - ; Acting*  
*Chairman, Department of Theology, 1952 - 1954; Chairman,*  
*Department of Theology, 1954 -*

JOHN J. WHEALEN

B.S., Ph.D., St. Louis University

*Assistant Professor of History, 1956 -*

CHARLES F. WHEELER

A.B., Xavier University; M.A., Ph.D., University of Cincinnati

*Professor of English, 1929 - ; Chairman, Department of English, 1939 - ; Director of Veterans' Education, 1945 - 1946; Director of Summer Sessions, 1951 -*

REV. ORRIN T. WHEELER, S.J.

Litt.B., Xavier University; Ph.L., West Baden College; S.T.D., Woodstock College

*Instructor in Theology, 1958 -*

GUS D. WIETHORN, M/Sgt.

*Assistant Instructor in Military Science and Tactics, 1956 -*

WILLIAM H. WILLER

A.B., DePaul University; M.A., Ph.D., University of Minnesota

*Associate Professor of English, 1946 - 1957; Professor of English, 1957 -*

RON J. WILLIAMS

A.B., Xavier University

*Instructor in Physical Education, 1958 -*

LOUIS WILLINGER

B.E.E., B.Mgt.E., M.Mgt.E., Rensselaer Polytechnic Institute

*Lecturer in Business Administration, 1957 -*

EDWARD F. WILZ

B.S. in B.A., University of Cincinnati; M.B.A., Xavier University; C.P.A.

*Instructor in Accounting, 1954 - 1957; Assistant Professor of Accounting, 1957 -*

H. E. WOLFE

B.S., M.Ed., Xavier University

*Lecturer in Psychology, 1956 -*

LUCIUS F. WRIGHT, Major, Arty.

B.S., United States Military Academy

*Assistant Professor of Military Science and Tactics, 1956 -*

REV. JOSEPH WULFTANGE, S.J.

A.B., Loyola University, Chicago; A.M., St. Louis University;  
M.S., University of Minnesota; S.T.L., West Baden College;  
Ph.D., Gregorian University

*Assistant Professor of Philosophy, 1958 -*

OLEG ZINAM

B.S., M.B.A., Xavier University

*Lecturer in Modern Languages, 1958 -*

### Graduate Fellows

JAMES L. ANDERSON, B.S. . . . .	Philosophy
NICHOLAS W. BRAKE, A.B. . . . .	Chemistry
WILLIAM L. BUDDE, B.S. . . . .	Chemistry
CONRAD L. DONAKOWSKI, A.B. (Honors) . . . . .	History
JAMES M. DUSABLON, B.S. . . . .	Chemistry
JOHN R. HACKMAN, B.S. . . . .	Chemistry
JOHN C. HOGAN, B.S. . . . .	Chemistry
PATRICK J. JEFFERIES, A.B. . . . .	Chemistry
JOHN R. JOHNSON, B.S. . . . .	Chemistry
DAVID J. JOSEPHIC, B.S. . . . .	Chemistry
PETER E. KAUFFMAN, B.S. . . . .	Chemistry
MARK E. PLAGEMAN, A.B. . . . .	History
THOMAS C. PURCELL, A.B. (Honors) . . . . .	Chemistry
KENNETH P. REED, A.B. . . . .	Chemistry
PHILIP J. ROBBINS, A.B. . . . .	Chemistry
CHARLES J. SCHARE, B.S. . . . .	Chemistry
PAUL L. SIMON, A.B. . . . .	History

# The University

## History

Xavier University was founded in 1831 as a literary institute by the great Apostle of the West, Edward Dominic Fenwick, of the Order of Preachers, who was the first Bishop of the Diocese of Cincinnati. He called his school The Athenaeum and erected buildings on Sycamore Street in downtown Cincinnati where Saint Xavier Church and Saint Xavier High School now stand.

In 1840, his successor, Bishop John Baptist Purcell, invited the Jesuits from Saint Louis University to take over the administration of the school. They arrived on October 1, 1840, and began first classes on October 17. The Jesuits changed the name to Saint Xavier College. In 1919 the College moved to the present site on Victory Parkway in Evanston-Avondale. In 1930 the name was again changed, this time to Xavier University.

## The College of Arts and Sciences

The College of Arts and Sciences is the heart of the Jesuit system of education. The college holds this place because it is the unit of a university wherein the distinctive purposes of Jesuit education are more fully realized. The first two years of the College of Arts and Sciences are devoted almost wholly to general education; the last two years are devoted in great measure to advanced and specialized study in fields of knowledge upon which the student wishes to concentrate. During these last two years, however, each student must devote almost one-third of his work to the study of philosophy and Christian culture, which thus climax and integrate his general education.

## Evening College

The purpose of the Evening College is to aid adults of Greater Cincinnati in obtaining a more advanced education by means of courses of cultural and practical value. This division renders particular service to those who wish to carry college work toward a degree while working during the day and to those who wish to pursue subjects which will better fit them for special services or vocations.

In addition to the liberal arts courses, technical and vocational courses are offered. All courses are open to men and women. Besides the individual course offerings, there are groupings and programs of courses leading to certificates, diplomas, and degrees.

The Evening College is administered by an associate dean, and all classes are conducted on the downtown campus, 520 Sycamore Street. Information regarding the Evening College will be found in Xavier University Bulletin No. 3.

### Milford College

Members of the Chicago Province of the Jesuit Order pursue humanistic studies at the Milford College, a unit of the University. The faculty and the courses offered at Milford are included in this catalogue.

### Affiliate

There is an affiliation between the University and the College-Conservatory of Music. Credits in the communication arts (radio-TV) from the College-Conservatory are accepted for degrees by special arrangement.

### Objectives of Xavier University

Xavier University is an institution of higher learning set in the worldwide traditions of the Roman Catholic Church and the Jesuit Order and drawing upon the cultural heritage of the Ohio Valley. The teaching of the Church on the nature of man, his origin and destiny, and how he should use and develop his talent is central to the educational philosophy of the University. It subscribes to the expression of Pope Pius XI in his *Christian Education of Youth*, "The proper and immediate end of Christian education is to cooperate with divine grace in forming the true and perfect Christian. . . . The true Christian, product of Christian education, is the supernatural man who thinks, judges and acts constantly in accordance with right reason illumined by the supernatural light of the example and teaching of Christ."

The University strives to foster conditions favorable for intellectual leadership. To this end it strives to impart a superior body of knowledge to its students and to help them acquire power to think clearly and penetratingly. The University wants its graduates to be literate, persons of good taste, frequent and familiar in the use of books, alert, and retentive of significant ideas. These ideals are promoted by curricular and co-curricular activities that contribute to the intellectual, the religious, the moral, and the physical enrichment of its students.

In seeking to fulfill its responsibilities, the University is guided by the principles of the *Ratio Studiorum*. This Jesuit code of liberal education, developed and revised through some four hundred years

of experience, stresses the liberally educative value of mathematics and the natural sciences to teach the student to reason about the material universe. It uses language and literature to bring him into contact with new habits of thought and expression to enrich the appreciation of his own culture. History and social studies broaden his knowledge of men and events, and lead to a deeper understanding of his own role in society. And philosophy and theology help integrate the entire program of studies by the insight they afford of the total reality of God's plan for the individual and for society.

Along with general education, the University provides for concentration in special areas of learning. To the extent consonant with its resources, Xavier University fosters scholarly investigation and creative ability so that its members may contribute to mankind's quest for the fullness of truth. Its philosophy of education shapes and directs the curricula and the educational methods of Xavier University. The various programs, those in the natural sciences, business administration and pre-professional education, no less than those in the humanities, give the student a core of required, broadly educative courses so that concentration on special objectives is carried on in the context of liberal education.

In fine, Xavier University regards the development of the intellectual abilities of its students in their pursuit of truth as its specific, primary responsibility. And it sees itself sharing with the Church, the family, and other social institutions the responsibility for developing the other characteristics of the "true and perfect Christian"—strong moral character, intelligent appreciation of beauty, sound physical health, and appropriate social attitudes and habits. Jesuit education thus prepares its students for eternity as well as for time; for life as well as for vocation.

## Buildings

The following buildings are used primarily for administration and classroom purposes:

*Albers Hall*, dedicated in 1929, is the gift of the late William H. Albers. It contains classrooms, laboratories, offices of the staffs in biology and in physics, the administrative offices of the president, the executive vice-president, the Graduate School, and public relations, and the Dorothy Albers Fine Arts Room.

*Alumni Hall*, erected in 1920, is the gift the alumni made to commemorate the diamond jubilee of their Alma Mater. It contains offices for the faculty, classrooms, and the administrative offices of the dean, the assistant dean, the business manager and comptroller, the bursar, the registrar, the director of veterans' education, and the director of admissions.

*The Armory*, completed in 1949, houses classrooms, an auditorium, a drill hall, a rifle range, storage rooms, and garages.

*Saint Barbara Hall*, the former Melcher residence, acquired in August, 1947, is the headquarters of the Reserve Officers' Training Corps.

*The Walter Seton Schmidt Library Building*, erected in 1926, contains the Mary G. Lodge Reading and Reference Room, the library stacks, reading rooms, classrooms, Bellarmine Chapel, and the seismological observatory.

*Thomas J. Logan Chemistry Building*, erected in 1952-1953, is a modern science building which consists of four levels containing classrooms, spacious student laboratories, small research laboratories, dark rooms, and offices. The first level includes a loading dock and adequate storage space; the second level contains the Albert D. Cash Memorial Room.

Residence halls include the following:

*Brockman Hall*, a campus residence for three hundred men, was dedicated in May, 1955, to the memory of the Very Rev. Hubert F. Brockman, S.J., twenty-fourth president of the University. Special features of the building are the main lounge for reading and conversation; a recreation room for games; group study areas on each floor; a parents' visiting parlor; and a small adoration chapel.

*Elet Hall*, erected in 1924, was the first unit of the students' dormitories. It is a well-furnished student residence with accommodations for one hundred students in single and double rooms.

*Elet Hall Annex* adjoins Elet Hall on the north. It was purchased in 1954 to provide additional student housing. Acquisition of this property completed the western campus property line unbroken from Victory Parkway north to Marion Avenue. The Health Service now is located in the Annex.

*Federal Houses*, eight cottage apartments on Herald Avenue, are supervised by the University.

*Finn Lodge*, an auxiliary residence for the Jesuit faculty, stands at Herald and Ledgewood Avenues, at the northeast boundary of the campus. Its name commemorates the late Rev. Francis J. Finn, S.J., author of numerous books for youngsters.

*Fisher Lodge* is an auxiliary residence for the Jesuit faculty at 3828 Ledgewood Avenue, across from Brockman Hall.

*Hinkle Hall*, the residence of the Jesuit faculty, was erected in 1920 by Mrs. Frederick Wallis Hinkle. It contains living quarters, reception rooms, administrative offices, the switchboard, and the Foss Memorial Chapel.

*Marion Residence*, acquired in 1942, is especially arranged for individual tutorial guidance of honor students. A special selection of students assures representation in all phases of co-curricular life. Students may live in Marion Hall only by special recommendation.



Other buildings of the University are:

*The Field House and Gymnasium*, erected in 1928, is the gift of Mr. Walter S. Schmidt, Class of 1905. In addition to the large indoor stadium, it contains a boxing ring, badminton and handball courts, a basketball court, and shower and locker rooms.

*Xavier Stadium* has a capacity of 15,000 and is floodlighted for night games. It was erected in 1928 through a public drive headed by the former Governor of Ohio, the Hon. Myers Y. Cooper.

*North Hall*, completed in September, 1947, by the Federal Works Agency under the Veterans Educational Facility Program, contains offices of the dean of men, the superintendent of buildings and grounds, and the maintenance department; storage space; and maintenance equipment.

*South Hall*, also an FWA-VEFP project, completed in September, 1947, houses the University book store, the snack bar, a student lounge, and an auditorium.

*The Union House*, the former Avondale Athletic Club, now contains the cafeteria, a lounge, and student activity offices.

*The Milford Novitiate Building*, erected in 1925, on a one-hundred acre plot of ground in Milford, Ohio, contains the dormitories, dining hall, chapel, library, and classrooms for the young members of the Society of Jesus in residence at the Milford Division of the University.

*The Downtown College Building* houses the administrative offices, the library, and the classrooms of the Evening Division at 520 Sycamore Street, two minutes from Fountain Square.

## **Accreditation**

The University is accredited by the North Central Association of Colleges and Secondary Schools as a degree-granting institution, and is approved by the Department of Education of the State of Ohio, by the Board of Regents of the University of the State of New York, and by the University of Illinois.

## **Institutional Memberships**

To stimulate active interest in matters educational, and to afford both faculty and students the value of recent research, the University maintains membership in the following educational and learned organizations:

The Jesuit Educational Association; The National Catholic Educational Association; The North Central Association of Colleges and Secondary Schools; The North Central Conference of Summer School Directors; The American Council on Education; The Associa-

tion of American Colleges; The Association of Urban Universities  
The National Conference of Church-Related Colleges; The Mid-West  
Conference on Graduate Study and Research; The National Educa-  
tion Association; The Ohio College Association; The Association of  
University Evening Colleges; The American College Public Relations  
Association; The American Catholic Philosophical Association; The  
American Catholic Historical Society of Philadelphia; The American  
Historical Association; The United States Catholic Historical Society;  
The Mississippi Valley Historical Association; The Catholic Library  
Association; The American Library Association; The American Asso-  
ciation of Collegiate Registrars, The Association of Ohio College  
Registrars; The National Association of Student Personnel Adminis-  
trators; The American Association of Colleges for Teacher Educa-  
tion: The Association of College Unions; and The United States  
Field Artillery Association.

### **Individual Memberships**

The University is represented in many other associations and societies through the individual memberships of its faculty.

# University Services, Scholarships, and Organizations

## Religious Welfare

Xavier University uses various means of promoting a sincere Catholic way of living in its students. Too numerous for catalogue listing, they permeate classroom and general campus atmosphere. From the elaborate celebration of Mass to a quiet visit in Bellarmine Chapel, student life is vibrant with that simple devotion characteristic of Christian principles.

## Student Retreat

Each year the Spiritual Exercises of Saint Ignatius Loyola are given for all Catholic students. Attendance at the exercises is obligatory.

At the same time a series of conferences on morality, character formation, and the natural virtues are given to the non-Catholic students. In none of these conferences is there anything said to disturb the religious convictions of any individual exercitant. Attendance at these conferences is obligatory.

## Student Health Service

The Student Health Service is the organization through which the University fulfills its obligation to its students for the care of their physical and mental health and at the same time assures itself and the families of these students that a reasonable supervision is being exercised by the institution for the maintenance of physical and mental fitness of the student.

Participation in the Student Health Service is obligatory.

The functions of the Student Health Service are:

1. To counsel students on all problems of health
2. To encourage habits of healthful living
3. To give hygienic advice for the improvement of impaired health, and to supervise the sanitary condition of all campus facilities
4. To provide medical attention on the campus for sickness and accidents
5. To supervise hospitalization of ill students

Health examinations are required of all new students as part of their entrance requirements to Xavier University. Forms for this examination are to be filled out by the family physician and must be in the hands of the medical director of the University before the beginning of the semester in which the applicant enters the University.

### **Student Guidance**

The University strives to give students as much individual attention as possible. Each student is assigned a faculty adviser whose duty it is to assist the student in the planning of his course. The student is expected to have at least one conference in each semester with the adviser.

For spiritual and more personal guidance the University provides a student counselor who sees all students according to schedule or by appointment. Consult the Student Counselor, Hinkle Hall.

Matters of veterans' welfare are under the Director of Veterans' Education.

The University also sponsors a Guidance Center and a Placement Service to assist the students' educational and vocational planning.

### **The Guidance Center**

The Guidance Center assists the student to know himself. It will aid him in learning his qualifications, strengths, and limitations. Through a series of tests a study is made of his interests, aptitudes, abilities, and personality traits. These together with a knowledge of his background and training will afford the counselor an appraisal of the student. Through personal interviews recommendations will be made so that the student may choose his life work more intelligently and more in accord with his personal assets. A fee is charged for this guidance service, which is available to non-students as well as to high school students.

### **The Placement Service**

The Placement Service is maintained to assist graduates in finding suitable employment in accordance with their training. The service has available occupational material. It makes contacts with companies and alumni and arranges for company representatives to confer with the seniors. The service also aids as much as possible in part-time employment. There is no charge for this service.

In addition, the Placement Service sponsors the Business Internship Program in cooperation with selected companies. Under this program, recommended students are referred to jobs related to their major field during vacations and other periods. Business interns are

usually recommended in their sophomore or junior year and are frequently rehired by the cooperating company at graduation. The federal government is also cooperating with this program.

### **Student Housing**

Brockman Hall, Elet Hall, Elet Hall Annex, Marion Residence, and five cottages are equipped to accommodate students. Dormitory fees are listed under Fees.

Freshmen and sophomores are required to live in the University residence halls. Juniors and seniors may, with permission of the Student Welfare Committee, live off campus.

### **Cafeteria and Snack Bar**

The University Cafeteria serves three meals daily (seven days per week) under the supervision of a dietitian. Snacks and light meals are also provided in South Hall.

### **The Book Store**

The University maintains a completely equipped book store in South Hall.

### **Libraries**

*The University Library*, housed in the Walter Seton Schmidt Library Building on the Evanston Campus, contains many interesting and valuable collections among which are the original manuscripts of Francis J. Finn, S.J.; a fourteenth century vellum manuscript of the sermons of St. John Chrysostom; a fifteenth century antiphonary; several incunabula; letters of Andrew Jackson, Martin Van Buren, and others; and a complete set of the *Jesuit Relations*. Microfilm and microcard readers are available for use. The total number of bound volumes is 71,966. The University has been a constant beneficiary of many friends whose contributions have aided considerably in increasing the number of volumes. Since 1925 the organization known as the Booklovers of Xavier University has been outstanding in its generous gifts and contributions.

With the exception of Sundays and holidays, the library is open to the faculty and the students from 8:30 A.M. to 5:00 P.M. Monday through Saturday; from 6:00 to 9:00 P.M. Monday through Thursday.

*The Saint Thomas Library*, a branch of the University Library, is situated in Milford and is for the service of the faculty and students of the Milford Division of Xavier University. In keeping with the humanistic curriculum of this division a great part of the 32,638 volumes is in the field of English and classical literature. Very note-

worthy collections of ascetical and theological works are distributed in the buildings at Milford.

The Evening College has its own library on the downtown campus.

## Laboratories

The *Albers Biological Laboratory*, located on the third floor of Albers Hall, is well equipped for the training of undergraduate students in the biological sciences. In addition to standard biological laboratories, optical equipment, slides, and specimens, the Department of Biology has abundant visual aids including models, a museum, a variety of projectors, and its own library of motion pictures and kodachromes. A library room of selected reference books and journals adjoins the laboratories. A dark room and photographic equipment are available for the taking of motion pictures and photomicrographs.

The faculty of the Department of Biology has been conducting research on the electrical activity of the nervous system of lower forms for which Grass and Rahm electroencephalographs, with accessory instruments, are available. Advanced students are given the opportunity of engaging in this program of research.

Two large, well-equipped laboratories for general physics, and one for advanced work in optics, occupy more than twenty-five hundred square feet of space on the second floor of Albers Hall.

The psychology laboratory is equipped with necessary materials and apparatus for conducting undergraduate experimental research relative to a variety of psychological problems particularly, in areas of reading, learning, and testing.

The seismology laboratory, used for research in seismology, is connected with the physics laboratories. For the purpose of advancing the science of seismology, Xavier University maintains a first class seismographic station and observatory in the network of the Jesuit Seismological Association. The vault containing the instruments is situated in the basement of the library building. On massive concrete pillars, structurally independent of the building itself, are four Wood-Anderson torsion seismographs which register the horizontal components of the earth's motion. A fifth instrument, a Galitzin-Wilip electromagnetic seismograph, galvanometrically registers the vertical motion of the earth. A special master-clock, corrected by the Arlington radio time signals, gives accurate time control on the seismograms.

The chemistry laboratories formerly housed in North Hall and Alumni Hall are now located in the new Logan Chemistry Building. Five large laboratories are devoted to physical, organic, analytical, general inorganic chemistry, and graduate research. There are also smaller laboratories for biochemistry, organic analysis, and industrial

chemistry. Three dark rooms are located on the fourth level, and professors are provided with offices and research laboratories. The laboratories are constructed with walls of tile and contain emergency showers and fire-fighting equipment.

The Department of Military Science and Tactics is adequately equipped for the conduct of both field work and classroom instruction. Equipment available for practical exercises by R.O.T.C students consists of various individual hand weapons as well as examples of practically all infantry crew-served weapons, to include machine guns, mortars, rocket launchers and the new 106mm recoilless rifle. Since Xavier's R.O.T.C unit specializes in Field Artillery, several 105mm howitzers and their associated fire direction and survey equipment are on hand. In addition, the department has available various other items or models of military equipment for training in map reading, military communications, air defense artillery and military missiles. Indoor instruction is often augmented and facilitated by appropriate motion pictures, slides and other graphical training aids. Other facilities include a sixteen-point small bore firing range, a military affiliate radio station and an indoor drill and training area in the Armory.

### **Student Aid**

Students who need financial assistance to attend college may obtain aid in two ways. There are, first, scholarships, which require high scholastic standards. There are also loans, which enable the student in good standing to borrow money for his college expenses. These loans come due after the student has been out of college one year.

Letters concerning scholarships or loans should be directed to:

The Chairman  
Committee on Scholarships  
Xavier University  
Cincinnati 7, Ohio.

### **The Procter and Gamble Scholarship**

Xavier is one of the universities participating in the Procter and Gamble scholarship program. Each scholarship under this program covers full tuition for four years and an allowance for books, fees, and supplies, and is administered by the University. Applications should be received before March 1.

### **The General Motors Scholarship**

Xavier participates in the General Motors College Scholarship Plan. The amount awarded under this plan ranges from an honorary

award of \$200.00 up to an award of \$2,000.00 per year, depending upon the need of the individual. This scholarship is administered by the University. Applications should be received before March 1.

### **Cincinnati Catholic High Schools**

A full tuition scholarship is awarded annually to each of the Catholic high schools for boys of Cincinnati. The award is granted on the recommendation of the principal to an outstanding student of the graduating class.

### **Jesuit High Schools**

A full tuition scholarship is awarded annually to each of the five Jesuit high schools of the Chicago and the Detroit provinces. The award is granted on the recommendation of the principal to an outstanding student of the graduating class.

### **Honors Course Scholarships**

Three full tuition scholarships, and other partial scholarships, for the Honors Course are awarded annually to high school graduates who merit the highest scores in special competitive examinations held in the spring of each year. Four years of high school Latin are a prerequisite.

### **Competitive Scholarships for Greater Cincinnati**

Six half-tuition scholarships are awarded to graduates of high schools from the Greater Cincinnati area by means of competitive examinations. A student is eligible for the examinations if his name has been submitted by his high school principal. The Greater Cincinnati area includes Hamilton, Butler, Clermont, and Warren counties of Ohio; Boone, Campbell, and Kenton counties of Kentucky; and Dearborn county of Indiana.

### **Applicants from Outside Greater Cincinnati**

Six half-tuition scholarships are awarded to graduates of high schools outside the Greater Cincinnati area. The scholarships are awarded by and at the discretion of the Committee on Scholarships at Xavier University. The committee will weigh the following factors in making the awards:

1. The intellectual ability of the student
2. The recommendation of the student's high school principal
3. The financial need of the student



## Scholarships for Foreigners

Three scholarships covering tuition and fees are awarded annually to applicants from foreign countries, chosen on the basis of ability and need. The recipients of these scholarships are not held to the same high scholastic standards as the others, but they must make above-average grades.

## Other Scholarships

The committee awards other scholarships and grants, the number of which depends on the amount of the available funds. In 1957, thirty other scholarships were awarded, each of which provided half-tuition or more.

## Scholarship Regulations

1. A scholarship applies to tuition only and does not excuse the designee or holder from payment of other fees.
2. Scholarships must be accepted for the year or years they are awarded. They may not be transferred by the holder and may not be resumed at will after having been relinquished.
3. The scholarship will be awarded for one year and will be renewable in favor of the holder for each successive semester of his four-year college period.
4. Holders of honor scholarships must maintain a quality-point ratio of at least 2.5 in the freshman year, and 3.0 in the sophomore, junior, and senior years.
5. The award in all cases is made by and at the discretion of the Scholarship Committee of Xavier University.
6. Holders of honor scholarships are expected to participate in the co-curricular activities of the University.
7. The honor scholarships listed above pertain to the Evanston campus and are not transferable to the Evening Division.

## Source of Scholarship Funds

Listed below are the permanent scholarships that have been generously given to Xavier University in the past. The income from these scholarships is increased each year by gifts of annual scholarships. In addition, the University uses funds from its current income to make up the balance of these awards.

## Perpetual Scholarships

*William F. Poland, S.J., Fund*, about 1906, approximately \$115,000

Fr. Poland established this fund from his patrimony at the time of the death of his parents.

*Elizabeth Sullivan Scholarship*, 1924, \$3,000

*Mary B. Shannon Scholarship Fund*, 1925, \$13,334

*Worpenberg Family Scholarship*, \$5,000

This is a partial scholarship to be awarded preferably to a graduate of Saint Xavier High School.

*Rev. James D. Foley, S.J., Scholarship*, (in his honor) \$2,000

*Mary Mohlenhoff Scholarship*, (in memory), \$2,000

*Passion Play Scholarship*, 1928, \$500

*The Ryan Sisters Scholarship*, \$3,000

*Siedenberg-King Scholarship*, \$2,000

*Margaret Shea Scholarship*, 1937, \$3,500

*Archbishop McNicholas Memorial Scholarship*, 1940, \$5,000

Given on the occasion of the Quadricentennial Observance of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

*Mrs. F. W. Hinkle Memorial Scholarship*, 1940, \$5,000

Given on the occasion of the Quadricentennial Observance of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

*The Ryan Sisters Memorial Scholarship*, 1940, \$5,000

Given on the occasion of the Quadricentennial Observance of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

*Saint Xavier Church Memorial Scholarship*, 1940, \$5,000

Given on the occasion of the Quadricentennial Observance of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

*Rev. James McCarthy, S.J., Scholarship*, 1942, \$3,468

This partial scholarship is to be given to a needy and deserving student in honor of Fr. James McCarthy, S.J. It was donated by the will of Mrs. Clara Pressler.

*Xavier Student Council*, 1942, \$2,087.47

The proceeds from a World War II metal scrap drive conducted by the Student Council were donated for this scholarship.

*Bernard H. Ludwig Scholarship*, 1948, \$2,000

A partial scholarship to be given preferably to some member of Saint Augustine's Parish, to be selected by the pastor of Saint Augustine's, Cincinnati.

*Charles A. Clasgens Scholarship*, 1949, \$3,576

A partial scholarship for any worthy poor student, preference to be given to a student of Saint Peter's Roman Catholic School, New Richmond, Ohio.

*Blessed Virgin Mary Scholarship*, \$5,000

A partial scholarship established by an anonymous donor in honor of the Blessed Virgin Mary.

*Rev. Albert Dierkes, S.J., Scholarship*, \$6,400

A partial scholarship established by an anonymous donor in memory of Fr. Dierkes.

*Fred Tuke Scholarship*, 1951, \$10,000

A donation by Mr. Fred Tuke provided a full tuition scholarship.

*Walter and George McDonald Scholarship*, \$1,000

*Dr. Edward McGrath Scholarship*, 1956

A partial scholarship donated in memory of Dr. McGrath.

*Lillian W. Ochs*, \$250

*Class of 1931 Scholarship*, 1956, \$7,500

A half-tuition scholarship donated by the Class of 1931 on the occasion of the twenty-fifth anniversary of their graduation.

*The Stephens L. and Margaret J. Blakely Scholarship*, 1958

A tuition scholarship maintained by the annual contribution of Mr. John R. Blakely and Mrs. Jane B. Woodrough in honor of their parents. The scholarship is awarded to a pre-law student from Kenton County, Kentucky.

*The Jesse K. Dunn Memorial Scholarship Fund*, 1959, \$7,000

### **Government Loan Fund**

Xavier University is participating in the new Government Loan Fund under the Education Defense Act. Details will be announced.

### **Loans: The Chaswil Foundation**

The Chaswil Foundation Student Loan Fund has been established by the late Sir Charles F. Williams to assist students in the undergraduate division. A student must have completed at least one semester at the University in order to become eligible to apply for a loan.

### **The Lichter Foundation**

The Lichter Foundation Loan Fund was established in 1955 through the generosity of Mr. Jacob Lichter of Cincinnati. It is the purpose of the fund to aid talented and promising young men who need financial assistance to pursue their higher education.

Applicants must meet reasonable standards of character and academic progress.

Applications for loans from either fund are to be made to the Chairman of the Scholarship Committee.

## Awards

*The Cincinnati Chapter, National Association of Accountants Manuscript Writing Awards.* These awards of \$25, \$15, and \$10 are granted students submitting the best manuscripts on subjects of working interest to the accountant in industry.

*The Ervin A. Stadler Accounting Award.* An award of \$100 is offered by Mr. Ervin A. Stadler, resident partner of Haskins and Sells, to the student majoring in accounting who attains the highest cumulative average in scholarship and accounting at the completion of his sophomore year and is a member of the Accounting Society.

*The Haskins and Sells Foundation Scholarship Award.* The Haskins and Sells Foundation has established an annual award of \$500 for the senior with an aptitude for public accounting and with the highest cumulative average in scholarship, accounting, and English at the completion of his junior year.

*The Dr. J. T. Clear Biology Key.* This key, founded by Dr. J. T. Clear, is awarded annually to the member of the Xavier Biological Society who has completed his major in the Department of Biology with the highest distinction.

*The Dorst Chemistry Key.* This key, the gift of Arno A. Dorst, is awarded annually to the senior who has completed his major in the Department of Chemistry with the highest distinction.

✓ *The Arno Dorst Cash Award.* This prize was established in 1958 in memory of the Cincinnati business and civic leader by the Honorable Edwin G. Becker. The award of \$200 will be made to a senior in Business Administration whose scholarship, co-curricular activities, and personal attributes indicate promise of leadership in business.

*The Intercollegiate English Prize.* A purse of \$100 (\$50 for the first prize, \$20 for the second, \$15 for the third, \$10 for the fourth, and \$5 for the fifth) is offered yearly by Mr. David F. Brenner of Chicago for excellence in English essay writing. The purse is open to the competition of the Jesuit colleges and universities of the Chicago, Missouri, Detroit, and Wisconsin Provinces.

*The Alumnae English Prize.* A prize is offered by the Xavier University Alumnae Association to the student of the University winning the highest place in the Intercollegiate English Contest.

*The Mermaid Tavern Prize Key.* A gold key is offered by Mr. Anthony C. Elsaesser, '12, to the Tavern member meriting highest distinction in literary composition.

*The Athenaeum Prize Keys.* The authors of the best contributions to issues of the *Athenaeum*, except members of the staff and graduate students, will receive gold keys. The staff of the *Athenaeum* and members of the Department of English serve as judges.

*Xavier Fourragere.* This military decoration is presented to R.O.T.C. students as an honor for military attainment.

*The Military Order of World Wars Medal.* The Cincinnati Chapter of The Military Order of World Wars presents a gold medal annually to the outstanding R.O.T.C. cadet of the First Year Basic Course

*The Reserve Officers Association of the United States, Cincinnati Chapter.* Four medals are presented annually by this association to cadets of the R.O.T.C. A gold medal is awarded to the outstanding cadet in the Second Year Advanced Course and a silver medal to the outstanding cadet of the First Year Advanced Course. Similar bronze medals are awarded to cadets of the First and Second Year Basic Course for excellence in scholarship and proficiency as cadets.

*The Xavier University R.O.T.C Rifle Club Award.*

*The Xavier University Veterans' Club Award.*

*The Disabled American Veterans' National Headquarters Award.*

*The Hamilton County Chapter of Catholic War Veterans' Award.*

*The Combined Councils, Knights of Columbus Award.*

*The Jewish War Veterans and Auxiliary Award.*

*The Cincinnati Chapter of the Sons of the American Revolution Award.*

*The Association of the United States Army Medal.*

*The R.O.T.C Bandsman Award.*

*The Colonel Charles F. Williams' Scholarship and Prize.* A gold medal and a \$200 scholarship are offered annually in memory of Colonel Charles F. Williams to the First Year Advanced Course student who ranks highest in scholarship.

*The American Citizens' League Award.* An award of \$25.00 is offered by the American Citizens' League of Cincinnati to the student who attains the highest scholastic average in German for the academic year.

*The Certificate of Hispanic Culture, Madrid.* This certificate of merit is awarded to the major or minor in Spanish who has demonstrated excellency in achievement in the Spanish language and who has proved his interest in Hispanic culture.

*The Alpha Sigma Nu Religion Key.* A gold key is awarded annually by the Xavier Chapter of the National Jesuit Honor Society to the freshman or sophomore who writes the best essay on a religious topic.

*The Intercollegiate Latin Prize.* The Very Reverend Provincials of the Midwest Jesuit Provinces offer a prize of \$100 annually (\$50 for the first prize, \$30 for the second, and \$20 for the third) for the best translation of classical English and classical Latin. The contest is open to students of the Jesuit liberal arts colleges in the Chicago, Missouri, Detroit, and Wisconsin Provinces.

*The Ragland Latin Medal.* A gold medal, founded in 1935, in memory of Alice D. Ragland, is awarded to the participant who ranks highest in the Intercollegiate Latin Contest.

*The Washington Oratorical Medal.* A gold medal is offered by the Xavier University Alumni Association for the best original oration delivered in the annual contests in oratory, held on February 22, Washington's birthday.

*The Joseph B. Verkamp Medal.* A gold medal is established by Mr. Joseph B. Verkamp for award to the member of the Poland Philopedian Society who has delivered the best speech in the annual public debate of the society.

*The Archbishop McNicholas Medal.* A gold medal is offered in memory of the Most Reverend John T. McNicholas, O.P., D.D., to that member of the senior class who has excelled in the study of philosophy.

*The Martin G. Dumler Key.* A key is offered by Mr. Martin G. Dumler, LL.D., to that member of the junior class who has excelled in the study of philosophy.

*The David Snyder Religion Medal.* A gold medal, founded by Mr. and Mrs. John W. Snyder, Portsmouth, Ohio, in memory of their son, David William Snyder, '31, is awarded for the best catechetical essay written by a junior or senior.

*The Religion Key.* An award offered by the University Sodality to the student who excels in the subject of Theology.

## **Student Government**

*The Student Council of the Evanston College.* This representative body undertakes to promote student activities whether athletic, social, scholastic, or religious; to maintain a healthy spirit of interest and comradeship among the students; to impart, foster, and exemplify the ideals which the University strives to realize. It attempts to meet local student problems chiefly by creating a sane public opinion.

## Student Organizations

Xavier University provides many forms of student activities and organizations for the purpose of promoting religious, social, academic, and cultural relations among the student body. All organizations of students are under the general supervision of the Student Welfare Committee. Approval for meetings and programs must be secured from them directly or through the appointed faculty moderators. With the exception of activities and organizations of a purely religious nature only such students as are free from disciplinary censure and the scholastic censure of probation are eligible for active membership. The University reserves the right to discontinue or moderate any student activity or organization. By means of its committees and agencies the University also has the right to limit the extent and degree of the individual student's participation.

## Religious Activities

The following activities offer students the opportunity to enrich their religious development:

*The Apostleship of Prayer* is a world-wide organization of which there exists in the University a distinct and duly-established local chapter. Membership is open to all students. The object of the association is the fostering of a manly and practical devotion to the Sacred Heart of Our Lord and Its interests in the world, and the actual practice of the law of universal charity through mutual prayer for the intentions of all associates.

*Catholic Students' Mission Crusade.* At the organization of the Catholic Students' Mission Crusade, held at Techny, Illinois, in 1918, the local sodality was represented. Its mission section became a senior unit, and consequently, a charter member of this great movement.

*The National Federation of Catholic College Students*, described as the "spirit of Catholic college students," is a medium through which Catholic college students may cooperate in fostering unity of purpose and in promoting lay leadership guided by Catholic principles.

*Sodality of the Immaculate Conception.* The sodality was established and affiliated to the *First Sodality* in Rome on December 8, 1841. Its purpose is to promote a special and filial devotion to the Immaculate Mother of God, to imitate her virtues, and to encourage, both by word and example, an eminent purity of morals and a manly fidelity to the practices of religion.

## Academic-Cultural Groups

The organizations that further the students' academic and cultural development are these:

*The Xavier Accounting Society*, organized in 1947, has as its prime objectives the broadening of knowledge and the deepening of interest of its members in the field of accounting; the promotion of mutual helpfulness and the fostering of fellowship in the pursuit of this worthy aim.

*The Alchemysts Club*, a student affiliate chapter of the American Chemical Society, furthers students' interest in chemistry. Together with the chemistry clubs of other Catholic colleges of Greater Cincinnati, it forms the Albertus Magnus Chemistry Club.

*The Musketeer Band*. The band promotes student interest in music, stimulates spirit at football and basketball games, gives concerts, and provides music for R.O.T.C. Corps Day formations and special University functions.

*The Biology Club*, open to students of biology, sponsors original investigation in the field.

*The Chesterton Society* studies world affairs, reviews periodicals of various nations, and evaluates important books in an effort to understand today's interrelated society.

*The Xavier University Clef Club* makes numerous concert appearances, entertains at University functions, and makes several radio broadcasts throughout the year. Two hours each week are given to vocal culture and the study of musical theory and interpretation.

*The French Club, le cercle Francais de Xavier* promotes interest in French affairs and in the history, the literature, the art, and the customs of France.

*The Gilbert J. Garraghan History Club* has a membership limited to twenty juniors and seniors interested in discussing historians.

*The Heidelberg Club* fosters an interest in the history, culture, and language of the Germanic people.

*The Masque Society of Xavier University* stages plays during the academic year, and affords its members an opportunity to take part in phases of play production—acting, directing, stagecraft, lighting, and scenic design.

*The Mathematics Club* promotes scholarly development by interesting its members in pure and applied mathematics.

*The Mermaid Tavern* is a writers' club of limited membership and promotes the association of graduates and undergraduates actively interested in writing. *The Tavernacular*, a privately circulated magazine, is issued quarterly.

*The Xavier Philosophy Club* fosters in its members greater interest in philosophical subjects. Meetings are informal and free discussion is encouraged.

*The Physics Club* is pledged to the purpose of increasing the interest of its members in physics.



*The Poland Philopedian Society*, the oldest campus organization, was founded in 1840. Besides regular intercollegiate debates, it sponsors the annual Robert S. Marx Debate Tournament, which brings teams from twenty-three colleges and universities to a competition at Xavier.

*The Political Forum* promotes the study of national and international law and politics.

*The Psychology Club* provides opportunity for students to increase their knowledge of psychology and to participate in extra-curricular work in this field.

*The Society for the Advancement of Management.* The University Chapter prepares Xavier men for business careers through seminars, conferences, and management development programs.

*The Spanish Club* encourages its members to learn more about the Iberian language and customs and the literature of Hispanic countries.

*The Student Fine Arts Committee* cooperates with the University Fine Arts Committee in developing interest in music, painting, and sculpture.

*The Student Speakers' Bureau* provides student speakers for appearances before clubs and civic organizations.

## **Social and Service Clubs**

Other organizations that afford students the opportunity for recreation and useful activity include the following:

*The Bowling League* consists of undergraduates interested in bowling.

*The Cheerleaders* organize cheering at games and rallies.

*The Dormitory Council* consists of representatives of residents of the University halls, and promotes the spiritual and social welfare of the dormitory students.

*The Xavier University Flying Club* assists members to obtain pilot licenses during their undergraduate careers.

*Operation More* is a group of undergraduates who work with the director of admissions to make the University known to prospective students.

*The Xavier R.O.T.C. Radio Club* maintains a station operating in the amateur bands and as part of MARS—the Military Affiliate Radio System. Students receive instruction necessary for earning operators' licenses.

*The R.O.T.C. Rifle Club* practices marksmanship under the direction of a member of the Department of Military Science.

*The Sailing Club* participates in intercollegiate regattas as a member of the Midwest Collegiate Sailing Association. Its home port is Lake Cowan.

*The Xavier University Council of the Knights of Columbus* (No. 4509) was established, and its first class was initiated in February, 1958. The Council maintains a residence for out-of-town members.

*The Xavier University Veterans' Club* is composed of former members of the armed forces, who, because of their age and military experience, have special interests, problems, and ideas. It fosters the Xavier spirit and encourages the veterans to take a dynamic role in the life and activities of the University.

### **Regional Clubs**

To promote fellowship among dormitory students the University encourages regional clubs. At present these are the following:

*The Buckeye Club*

*The Eastern Club*

*The Chicago Club*

*The Indiana Club*

*The Cleveland Club*

*The Toledo Club*

*The Detroit Club*

### **Intramural Athletics**

Intramural programs are carried on in a variety of sports for the benefit of undergraduates who do not participate in varsity competition. Such activities are carried on in baseball, basketball, bowling, handball, touch football, and other sports.

### **Intercollegiate Athletics**

Xavier University believes that there are sound values in intercollegiate athletic competition and that it has a valid place in American education. Intercollegiate athletics, therefore, are conducted at Xavier to further the education of the students physically, emotionally, intellectually, and morally. Participants learn the value of cooperative effort and the necessity of subordinating their own good to that of the group. They also see the need for poise and for competence in the face of opposition, and they learn a sportsmanlike respect for rules.

Intercollegiate rivalry also benefits the student body by providing wholesome recreation and the opportunity for the undergraduates to show their loyalty to all phases of the University's program. Students gain the educational value of sharing in group activity, and also learn to respect the rules as sportsmen.

The program of intercollegiate athletics at Xavier includes basketball, baseball, football, golf, sailing, swimming, tennis, and

occasional sports. These activities are administered by the moderator of athletics, who is advised by the Athletic Board and who is ultimately responsible to the President of the University.

Participants in intercollegiate athletics, as in other co-curricular activities, must be *bona fide* students in good standing. They will have entered the University in accordance with the admission norms published in the Catalogue and will be subject to the regular scholastic demands. If, in the judgment of the dean, their participation in athletics interferes with their progress toward a degree, he may forbid them to continue even though they are not formally on scholastic probation.

### **Xavier Publications**

Primarily intended as a source of information for the Xavier family, these publications offer special opportunity to students who wish to learn news writing, editing, and creative literary expression.

*The Athletic Review*, published by the Department of Public Relations, is the official program for all home football and basketball games, and carries illustrated up-to-the-minute news about the Musketeers.

*The Musketeer*, the official yearbook of the University, is a student edited and managed publication distributed shortly before the commencement exercises in June. Intended as a permanent record of student life at Xavier, *The Musketeer* presents in colorful pageantry a panorama of the various school events, social functions, athletics, and campus organizations.

*The Athenaeum*, a literary magazine that dates from the old college, is intended to foster literary effort among students. The staff is composed of honor students in English.

*The Xavier Alumni Newsletter* combines campus news with news about Xavier men and women everywhere. It is published by the Department of Public Relations and sent ten times a year to the entire Xavier family.

*The Xavier University News* is a weekly newspaper published by a board of student editors under the supervision of a faculty director. The staff is appointed by the director on the recommendation of the Department of English with the approval of the Dean of the College of Arts and Sciences. Appointment to the staff is a recognition of literary ability.

### **Television Program**

"Xavier Presents," a program which began over radio in 1946, is now televised weekly during the academic year over WCPO-TV, a Cincinnati station. The production is staged largely by Xavier

undergraduates. They devise it, write the scripts, recruit talent from the day and evening divisions of the University and from near-by schools, rehearse the entertainers, and participate as announcers, floor men, scenic designers, etc., under the guidance of a faculty director.

### Honor Societies

*Alpha Sigma Nu.* A chapter of this national honor fraternity for students of Jesuit colleges and universities was established at Xavier in 1939. Candidates for membership, chosen during their junior year, must be outstanding in scholarship, in loyalty, and in service to the University.

*Pershing Rifles: Company G-1,* a member of *The National Society of Pershing Rifles,* is an honorary association of college students enrolled in basic courses in military science. Its purpose is to encourage, preserve, and develop the highest ideals of the military profession and to promote American citizenship.

*The Xavier Order of Military Merit.* This honorary organization is composed of R.O.T.C. students of the advanced course who have received one or more citations and who have been nominated to the order by the Professor of Military Science and Tactics. All members wear the Xavier fourragere as a decoration.

### Non-Student University Groups

*The Booklovers of Xavier University,* organized in 1925, actively promotes the interests of the library through the purchase of books and periodicals. Funds are raised by means of membership fees, benefit parties, and special gifts. This group, recruited largely from mothers of students, meets monthly during the academic year for lectures, card parties, and entertainments.

*The Dads' Club of Xavier University* has as its purpose: (1) co-operation with the administrative body of Xavier University in maintaining high standards of education; (2) the support of extra-curricular activities of the student body; (3) social acquaintance among members of the club; (4) promotion of the general welfare of Xavier University. Members of the faculty, and fathers of past, present, and prospective students are eligible for membership.

*Xavier University Alumni Association.* This association was organized in 1888. Its purpose is to strengthen and perpetuate college friendships; to preserve in the former students a warm regard for Alma Mater and a lively memory of the substantial benefits she has bestowed; to cherish and advance her interests, maintain her honor, and sustain her reputation by manly and honorable conduct.

*Xavier University Alumnae Association.* Established in 1926, this alumnae group has for its purpose the fostering of the same loyal spirit and helpful interest toward Alma Mater which is characteristic of the alumni.

*The Honors Course Committee.* The ladies of this committee support the Honors Bachelor of Arts program and allied activities of the College of Arts and Sciences.

*The Faculty Wives.* This organization sponsors social activities to promote friendship among families of the faculty and the administration.

*The Musketeer Club.* Alumni and friends of the University's athletic program participate in the activities of this club.

# College of Arts and Sciences

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## A d m i s s i o n

### Application for Admission

Application for admission to Xavier University is made on a special form (Form 1) which will be supplied upon request made in person or by mail to: Director of Admissions, Xavier University, Victory Parkway, Cincinnati 7, Ohio.

### Procedure for Admission

An applicant must forward his Application for Admission (Form 1) to the Director of Admissions, Xavier University, Cincinnati 7, Ohio, and should request that his high school (and any colleges he may have attended) forward a complete transcript of his record to the Director of Admissions. (Veterans: See also Admission of Veterans.)

A deposit of \$25.00 must accompany the Application for Admission. This is not refundable if the applicant, after being accepted, cancels his Application, fails to enter the University, or does not remain in residence for at least four weeks. It will be applied to his account at the time of registration.

An applicant who was registered previously on the Evanston Campus but who has interrupted his residence is required only to submit the Application for Admission and the deposit, unless he has attended another school in the meanwhile.

### Admission by Certificate

Graduates of accredited high schools are admitted by certificate of graduation and an official record of units of high school credit together with an official recommendation from the high school principal. The official record of high school credits must show a minimum average of "C."

A unit is the equivalent of a subject extending through a school year of thirty-six weeks with five recitations per week. A minimum of fifteen units is required.

1. The following units are required of all applicants for admission.

English.....	3	History.....	1
Mathematics.....	1	Natural Science.....	1
Foreign Language (modern or classical).....	2		

*An applicant who does not present two units of credit in a foreign language (modern or classical) may offer as a substitute two units of either history and/or natural science.*

2. At least 11 of the 15 units must be offered from the following non-vocational (or college preparatory) subjects. Not more than 4 units in any one subject will be accepted.

English or Speech.....	1	German.....	1-4
Civics.....	$\frac{1}{2}$ -1	Spanish.....	1-4
Economics.....	$\frac{1}{2}$	History.....	1-3
Latin.....	1-4	Mathematics.....	1-3
Greek.....	1-4	Natural Sciences.....	1-3
French.....	1-4	Social Studies.....	1-3

3. Not more than 4 units will be accepted from the following vocational subjects.

Business Law.....	$\frac{1}{2}$	Shorthand and Typing.....	1-2
Commercial Geography.....	$\frac{1}{2}$	Music.....	1-2
Bookkeeping.....	1	Drawing.....	1-2
		Manual Arts.....	1-2

4. Applicants in the Basic Engineering program must present the following units in mathematics:  $1\frac{1}{2}$  units in algebra, 1 unit in plane geometry,  $\frac{1}{2}$  unit in solid geometry.

5. Applicants who do not meet the qualifications outlined above may, under special circumstances, be admitted at the discretion of the Committee on Admissions.

### Advanced Placement

The University grants advanced placement in subjects in which a student has made a satisfactory score in the College Entrance Examination Board tests.

### Admission on Probation

Candidates who do not meet the qualifications outlined for admission may, under special circumstances, be admitted on probation at the discretion of the Committee on Admissions.

All applicants admitted on probation must pass successfully whatever examinations the Committee on Admissions shall deem necessary.

## **Admission to the Pre-Medical Program**

A minimum academic average of B is ordinarily required for admission to the pre-medical program. However, applicants whose averages are lower may be considered by the Committee on Admissions, given aptitude and intelligence tests, and admitted at the discretion of the Committee on Admissions.

## **Admission to Advanced Standing**

Applicants from other institutions of collegiate rank must file with the Director of Admissions complete original credentials from all institutions attended. These credentials must include an official transcript of all high school and college credits showing the entire scholastic record; evidence of honorable dismissal or dismissals; and evidence of satisfactory completion of financial arrangements with the institution or institutions attended. No applicant may disregard his previous college record and apply for freshman standing.

The rank of advanced standing to which the student will be admitted will depend upon the quantity and quality of the work done in the other institution or institutions, the accreditation of the institution, and the conformity of the work to the degree program for which the student wishes to register. Courses in which the applicant has received the lowest passing grade will not be acceptable. These courses need not be repeated unless repetition be deemed necessary by the dean or the directors of the departments. In all cases evaluation of credits for advanced standing will be provisional for at least one semester.

Students dismissed for poor scholarship from the University or from other institutions will not be eligible for admission or readmission until after the lapse of at least one semester. In all cases, admission or readmission and the conditions of such, will be determined finally by the Committee on Admissions.

The residential requirements for a degree must be fulfilled by all students admitted to advanced standing.

All credentials must be on file in the office of the Director of Admissions at least one month prior to the day of registration. (See paragraph on Necessary Credentials.) It is advisable to get transcripts in much earlier.

## **Necessary Credentials**

Applicants for admission to Xavier University must submit official records from all high schools and colleges previously attended. *These records must be sent to the Director of Admissions directly by the proper officer of the school or schools formerly attended; never through*



*the student. Credentials accepted for admission become the property of the University and are kept on file permanently. All credentials must be filed at least one month before the day of registration.*

### **Readmission**

Readmitted students who have been absent for more than a year are subject to the curricular requirements in force at the time of their readmission. If a student has attended another school since his withdrawal from Xavier University, a record of that work must be submitted before readmission.

Veterans who apply for readmission, however, may qualify for degrees under requirements in force at the time of their departure from Xavier University for military service, depending upon their classification at the time of their entrance into service.

### **Admission of Special Students and Auditors**

Although the University usually recommends a complete program of studies, students who possess sufficient maturity, experience, and educational background may, with the dean's consent, choose special courses without following a complete degree program. Courses thus taken may be subsequently credited toward a degree if proper credentials are presented.

Students may enroll themselves as auditors upon payment of the usual fees and tuition. *Academic credit is never given to an auditor.*

### **Notification of Admission**

The applicant will receive from Xavier University a notice of admission or a notice of unfavorable action as soon as the University has received his admission form and the official records from all high schools and all colleges previously attended.

### **Provisional Admission**

Provisional admission may be granted by the dean to a student who has been unable to complete arrangements for formal admission before registration dates. If the student is later discovered to be unqualified for admission, his admission and registration are canceled.

### **Admission of Veterans**

Xavier University is accredited with the Veterans Administration for educational training under Public Laws 550 and 894 (Korean conflict benefits).

Veterans who wish to enter college or return to interrupted college work should, as soon as possible after discharge, apply to the Veterans Administration for a certificate of eligibility, which is the official form designating the amount of schooling to which a veteran is entitled under the Korean Bill. The Veterans Administration Regional Office for the Cincinnati area is located at 209 East Sixth Street, Cincinnati, Ohio. Veterans who live in other cities should make application to the V. A. office nearest their homes. Applications must be accompanied by original or photostatic copies of discharge papers and, if the veteran has dependents, by copies of marriage and of birth certificates.

Veterans who were students in good standing at Xavier University before entering the service will be readmitted if they give notice of their intention to re-enter in due time before registration. See Readmission.

A veteran transferring to Xavier from another institution must fill out Form VB 7-1995 (Request for Change of Place of Training) and send it to the school which he is leaving. He must thereafter follow the directions in Procedure for Admission.

Veterans must deposit the Certificate of Education and Training with the Director of Veterans' Affairs at Xavier at the time of registration or as soon thereafter as it is received.

A veteran must initiate his training within three years after his discharge. Once the veteran is enrolled and has passed his delimiting date (three years after his separation), he has the right to suspend training for periods of not more than twelve consecutive months.

Veterans are cautioned to select their programs of study in the light of ultimate goals: *i.e.*, the bachelor's, the master's, or the doctor's degrees, since only one change of course is allowed.

Financial benefits of late registrants shall date from the day of registration rather than from the beginning of the semester. This ruling of the Veterans Administration materially affects the student's financial status and *decreases allowable excused absences*.

To obtain his training allowance, the veteran must fill out the Certificate for Training promptly at the end of each month.

Out of this education and training allowance, veterans must pay for tuition, fees, books, supplies, and their own subsistence costs.

Disabled veterans may find it to their advantage to apply for increased benefits under Public Law 894.

All requests for information should be addressed to: The Director,  
Veterans' Education, Xavier University, Victory Parkway, Cin-  
cinnati 7, Ohio.

# Registration

## Time of Registration

Fixed dates in each session found in the academic calendar of this Catalogue are reserved for registration.

## Late Registration

Registration on days later than the assigned dates may be permitted upon the payment of a late registration fee of \$1.00 per day up to ten days.

## Change in Schedule

After the student has filed registration forms, changes in courses or sections can be made only with the consent of the dean at the recommendation of the departmental adviser. No change in schedule may be made later than two weeks after the inception of classes.

A fee of \$1.00 will be charged for each change.

## Number and Choice of Courses Permitted

The number and choice of courses or total number of credit hours in a student's program of studies are subject to such restriction as shall be deemed necessary by the dean or the departmental adviser.

## Course Duplication

A student who enrolls for a course which he has already passed at Xavier or at any other institution will not receive credit for that course.

## Selection of Courses

Classified students must take the required courses at the proper class level: thus, all freshman courses should be completed before the sophomore courses.

Both classified and unclassified students must observe prerequisites set by the University or by the departments which conduct the instruction. *Students may not disregard the directions of the dean and of the chairmen of departments in this matter.*

Since the University must consider the needs of all students, it may sometimes be unable to accommodate itself to the preferences

of some students for particular hours and professors. The scheduling of courses and sections at certain hours does not mean that a student can always be admitted to any given section which he may select.

### **Transcript Regulations**

Application for a transcript of credits must be made in writing by the student himself and filed with the registrar *at least two weeks before the record is needed.*

Requests for transcripts for purposes of transfer to another university or for any other purpose cannot be granted during the busy periods of examination and registration.

Transcripts are issued only after the student has fulfilled all financial obligations to the University.

There is no charge for the first transcript. A fee of \$2.00 is charged for each additional complete transcript.

Students who have been registered in the College of Arts and Sciences and later in the Graduate School must apply to the office of each when they request transcripts.

## Fees

The following rates are effective in the regular academic year and in the summer session. All communication concerning expenses should be addressed to: Director of Admissions, Xavier University, Victory Parkway, Cincinnati 7, Ohio.

An admission or reservation deposit of \$25.00 will be required of all prospective students whose applications are approved. Receipt of this deposit will assure the applicant of a place in one of the University classes. This deposit will be applied to tuition or room expenses according to the status of the applicant when the receipted certificate is presented to the bursar's office after the student formally registers.

### Accounts Payable (Undergraduate Day Classes)

All accounts must be settled on the day of registration. Attendance at classes will not be permitted until all financial obligations have been completed.

### Ordinary Expenses

Tuition per credit hour . . . . . \$17.50

N.B.—Auditors pay same rate as above.

Matriculation fee (payable once) . . . . . 10.00

R.O.T.C. fee (per semester) . . . . . 10.00

Deposit (partially refundable) . . . . . 25.00

Laboratory science fee (per course per semester) . . . . . 10.00

Laboratory materials deposit (per course per semester — partially refundable) . . . . . 5.00

Laboratory materials deposit, Comparative Anatomy (partially refundable) . . . . . 12.00

Laboratory materials deposit for science thesis per semester (partially refundable) . . . . . 20.00

General fee (per semester) . . . . . 25.00

(The general fee includes the use of all non-classroom facilities, the Student Health Center, and a reduction in the fee charged for the services of the Student Guidance Bureau.)

Identification Card (annually) . . . . . 1.00

Rate for private tutoring (per clock hour) . . . . . 5.00

### Honors Course

A flat rate of \$300.00 per semester (exclusive of military fees) has been approved by the Board of Trustees for students pursuing the Honors A.B. degree course. This flat rate will also include extra courses which the Honors A.B. student, with the permission of the dean, wishes to take.

### Contingent Expenses

Fee for change in registration . . . . .	\$ 1.00
Late registration (exclusive of special examination):	
Per day . . . . .	1.00
Maximum . . . . .	10.00
Special examinations (each) . . . . .	2.00
Duplicate transcript . . . . .	2.00
Graduation fee . . . . .	25.00
Service charge (refunded or deducted if bill is paid in full within one month) . . . . .	4.00

### Room

Room, per semester . . . . .	\$100.00
Room damage deposit (refundable when student no longer lives on campus) . . . . .	15.00

### Room Equipment

All rooms are equipped with a bed, desk, chair, bed linen, and desk lamp.

Students are expected to bring blankets, towels, soap, and any extra furniture desired.

### Board

Meals are served in the University Cafeteria. All boarding students are required to take their meals in the University Cafeteria from Monday through Friday, when living on campus. During the academic year rates for three meals a day, five days a week will be between \$205.00 and \$215.00 per semester, depending on the rise in food, labor, and maintenance costs. Meals are taken on a pay-as-you-go basis, Saturdays and Sundays.

### Refunds

A refund of *tuition* may be claimed in the case of withdrawal or dismissal. During the academic year the amount refunded will be

diminished by 20 per cent of the total initial amount for each two weeks of class meetings. *No refund will be made after classes have been in session for more than eight weeks.*

During summer sessions the amount refunded will be diminished by 20 per cent of the total initial amount for each four class days of the session. No refund will be made after classes have been in session for more than sixteen class days.

Fees are not refunded in summer or regular sessions.

A refund of room and board expenses may be claimed in case of withdrawal. No refund will be made for the periods prior to November 1 and March 1 of the fall and the spring semesters respectively, nor may a refund of room and board expenses be claimed in case of either suspension or dismissal. The amount of the refund allowed after November 1 and March 1 will be based upon the proportionate number of weeks following these dates.

All refunds are made on application in writing to the bursar. The amount of refund will be calculated from the date of application.

*N.B.* — The above statement applies to all divisions of the University except the classes of the Evening Division.



# Academic Regulations

## Classification of Students

Students are classified in the following groups: *lower division*, *upper division*, and other groups of a miscellaneous nature.

### *Lower Division Groups:*

1. Freshmen — students having less than 32 credit hours and 64 quality points.
2. Sophomores — students having from 32 credit hours and 64 quality points to 63 credit hours and 127 quality points.

### *Upper Division Groups:*

1. Juniors — students having from 64 credit hours and 128 quality points to 95 credit hours and 191 quality points *inclusive of all lower division requirements*.
2. Seniors — students having a minimum of 96 credit hours and 192 quality points *inclusive of all lower division requirements*.

### *Other Groups:*

1. Part-time — students taking less than 12 credit hours of work in any semester.
2. Unclassified — students who have not declared themselves as candidates for any degree.
3. Auditors — students taking courses for informational purposes and not for college credit.

## Unit of Instruction

A unit of instruction is one hour a week for a minimum of 15 weeks. The unit is called a *credit hour* and is the measure of work in the College of Arts and Sciences. A weekly two- or three-hour period of laboratory work is considered equivalent to one credit hour.

## Examinations

Examinations in all courses are regularly held at mid-semester and the end of the semester. A student who has been absent from a final examination will receive a grade of X if the excuse for the absence is acceptable to the dean; otherwise, the absentee will receive

an automatic failure. Absence, however, does not excuse a student from the requirement of a special examination at a time determined by the dean. *If an X grade is not removed within two weeks, a grade of F will be given for the course.*

Written assignments are due at the time specified by the instructor. If extension of time is granted, the student will be given a temporary grade of I. Unless the assignments are completed within two weeks after the last day of the regularly scheduled examinations, the student will be recorded as failing the course. C is the maximum grade which a student can earn in a course in which he has received an I.

If a student claims knowledge of a subject for which he cannot furnish an official record, a special examination may be given with the approval of the dean and the chairman of the department.

### Grading System and Reports

At the end of each session the parent or guardian receives by mail an estimate of the quality of the student's work in each of the courses pursued. This estimate is based upon the combined results of examinations and class work and is expressed by the following symbols:

- A — Exceptional. Indicates not only high achievement but also an unusual degree of intellectual initiative.
- B — Good. Indicates attainment above the average.
- C — Average. Indicates the normal attainment for the average student.
- D — Inferior. Indicates passing work but below the normal attainment.
- F — Failure.
- FA — Failure because of excessive absences.
- I — Incomplete; grade withheld pending fulfillment of assignment.
- W — Withdrawal (approved).
- WP — Withdrew passing.
- WF — Withdrew failing.
- X — Absent from examination.

### Quality Points

The quality point is the unit used in measuring the quality of student achievement in a course. The number of quality points

received for any course is equal to the number of quality points attached to the grade received multiplied by the number of credit hours yielded by the course. Quality points are given as follows:

A — 4 points per credit hour

B — 3 points per credit hour

C — 2 points per credit hour

D — 1 point per credit hour

A candidate for a bachelor's degree must earn not only the number of credit hours (128) required for the bachelor's degree, but his work must possess a certain excellence which is measured by *quality points*.

The scholastic standing of the student at the end of any session is the ratio of the total number of quality points received to the total number of credit hours carried in that session.

### Probation

Freshmen admitted to the University on probation must earn a quality point average of 1.5 during the first semester to remove the probation.

Students whose academic work does not meet the following quality point norms will incur probation:

Freshmen whose average falls below 1.5 in either semester.

Sophomores whose average falls below 1.75 in either semester.

Juniors and seniors whose average falls below 2.00 in any semester.

Probation will continue for at least one semester. During that semester the student's program will be reduced by at least one course, and he may not participate in co-curricular activities except those of a religious nature.

If the student fails to average 2.00 during the semester in which he is on probation, he will be dismissed from the University.

If his average during that semester is 2.00 but his over-all average is less than 2.00, his probation will continue for a second semester.

A student who continues on probation during two consecutive semesters because his average is below 2.00 will be dismissed from the University.

If the student's record or certain modifying circumstances indicate that his work will improve and that he will graduate in

approximately normal time, the dean will give due consideration to such facts as the record indicates.

### **Warned List**

A student whose quality point average is low but not low enough to justify his incurring probation is placed on the warned list.

Such a student does not come under censure, but his participation in co-curricular activities may be limited at the discretion of the dean or the student's adviser.

### **Failure**

A student who fails in two or more courses in a semester may be excluded from registration at the dean's discretion.

Permission to re-enter the University will be granted only after the student petitions for re-admission in writing and sets forth evidence of his ability to do satisfactory academic work.

### **Censure**

The University reserves the right to censure the conduct of any student on or off the campus in accord with the generally accepted norms of good behavior, Catholic practice, and Catholic principles of morality. This censure will be regarded as purely disciplinary and may take the form of correction, suspension, or dismissal which the President of the University, upon advice of the Committee on Student Welfare, may deem appropriate. Suspension will carry with it the scholastic loss resulting from absence, and dismissal will mean the loss of credit hours. When a student incurs the disciplinary censure of dismissal, or withdraws while under the censure of suspension, the University has the right to declare, at the discretion of the President, the fact of disciplinary censure to the admissions officer of any educational institution to which the student may subsequently apply. In such cases the reason or reasons of censure will be stated only with the consent of the parent or guardian.

### **Attendance**

In order to secure credit in any course in which he is registered, the student is required to attend classroom and laboratory exercises *regularly* and *promptly*. Absences date from the day of opening announced in the calendar.

### **Absence from a Test**

Unexcused absence from a previously announced test will incur the penalty of a failure in that particular test.

### **Transfer within the University**

A student who wishes to transfer from Xavier University, Evanston Campus, to the Evening College, 520 Sycamore Street, must present to the Dean of the College of Arts and Sciences, Evanston Campus, a written petition stating his reasons for seeking the transfer. If the dean approves the transfer, he will sign the student's petition. The student will then present the approved petition to the Dean of the Evening College, who will advise the student of further arrangements necessary.

*Transfers should be arranged at least one month before the opening of a session.*

### **Withdrawal from Course**

If a student withdraws from any or all courses without permission of the dean, he receives an automatic failure. *Permission will be given only when application is made within two weeks after discontinuance of attendance.*

The student who withdraws from any or all courses with the requisite permission receives a grade of W, if the withdrawal takes place *within* the first third of the session; or a grade of WP (withdrew passing) or WF (withdrew failing), if he withdraws *after* the first third of the session. The grade WF is accounted as a failure in computing scholastic standing.

### **Withdrawal from the University**

A student who wishes to withdraw from the University must notify the office of the dean either in person or in writing. *A student is considered to be in attendance until he has given this formal notice of withdrawal.*

A student will be obliged to withdraw for reasons of poor scholarship, failure to remove academic probation, or misconduct.

### **Honorable Dismissal**

Honorable dismissal is voluntary withdrawal from the University *with the consent of the dean*. A statement to such effect, indicative of the student's good standing so far as character and conduct are concerned, *will be issued only when all indebtedness to the University has been adjusted.*

## Curricular Information

### Lower Division and Upper Division Courses

Courses are grouped according to their basic or advanced content. Basic courses, which are ordinarily open to freshmen and sophomore students, are regarded as *lower division* courses. *Upper division* courses are open to junior and senior students. Sophomore students, who have completed their *lower division* requirements in a particular department, may, with the approval of their advisers and the chairman of the department, enroll in an *upper division* course in that department.

### Departments

For the purposes of faculty administration and of classification of courses according to the nature of their subject matter, all courses are grouped in *departments*. In the College of Arts and Sciences there are seventeen departments: Accounting, Biology, Business Administration, Chemistry, Economics, Education, English, History and Political Science, Classical Languages, Modern Languages, Mathematics, Military Science, Philosophy, Physics, Psychology, Sociology, and Theology.

### Lower Division Objectives

Toward realization of the immediate University objectives (intellectual competence with a sense of religious and moral responsibility) and the objectives of the undergraduate division (an exclusively general and liberal training), the student should, at the completion of his work of the first two years, have attained the following:

1. A religious knowledge adequate for personal orientation and influential Christian living
2. An acquaintance with, and some practice in, the modes of thinking — philosophical, mathematical, and scientific
3. A competence in basic English communication, written and oral, with an adequate acquaintance with the types, and some of the masterpieces of English literature
4. A reading knowledge of at least one foreign language
5. An acquaintance with the history and principles of social institutions

The objectives and standards of the several departments concerned in this program indicate their special contribution to the above, in such a way that a student who has completed a minimum of sixty-four hours with a C average, can be regarded as having sufficiently attained the objectives.

*Excess quality points at the completion of the student's lower division work may not be applied to remove a quality-point deficiency in the upper division work.*

### **Field of Specialization**

Before the close of his sophomore year, the student who wishes to continue his education in the University will be required to choose a field of specialization for his future work. Only upon acceptance by the chairmen of the departments concerned, and on successful completion of his *lower division* work, may the student be considered eligible to continue.

In the last semester of his *lower division* work, a student who has satisfied the *lower division* prerequisites in a particular subject, may, if his schedule allows, and if the dean and the chairman of the department concerned authorize it, take an *upper division* course in that subject.

The field of specialization consists of a major and a minor. Philosophy is the student's second minor.

### **Major**

The major will ordinarily consist of a minimum of eighteen credit hours of *upper division* work completed with an average of C in one department. This work will suppose the completion of at least six credit hours (C average) of *lower division* work in the department.

In the departments of classical and modern languages this six-credit-hour requirement of *lower division* work is not satisfied by beginning courses or their equivalent.

### **Minor**

The minor will ordinarily consist of a minimum of twelve credit hours of *upper division* work in another department approved by the student's adviser and completed with an average of C. This work will suppose the completion of at least six credit hours (C average) of *lower division* work in the department.

With the approval of his adviser and the chairman of the department the candidate may distribute his *upper division* work (approximately thirty credit hours) in the major and the minor on a fifteen-fifteen or twenty-one-nine credit hour basis. Such a distribution of credit hours, however, must be determined before the second semester of the candidate's junior year.

## Upper Division Objectives

Toward more special realization of the immediate University objectives (intellectual competence, etc.) and the objectives of the undergraduate division for the last two years of college (continued general and liberal training *plus* opportunities for specialization), the student is offered the following:

1. A continuation of his general and liberal training in the study of philosophy and allied subjects
2. Fields of specialization, with a major and minors system, for prudent concentration

At the completion of this work, the student must qualify as to his attainment of the University and undergraduate division objectives through a thesis or a comprehensive examination. The matter of these, broadly stated, will be his knowledge of his field of specialization, his grasp of the principles of knowledge, and his ability in the application, co-ordination, and systematization of facts and principles.

## Degrees

The University will confer a bachelor's degree upon any candidate of the University who has successfully completed an accepted program of studies, and who has fulfilled, prior to graduation, all degree requirements, both general and particular. The undergraduate degrees conferred by the University on candidates of the College of Arts and Sciences are the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Physical Education, and Bachelor of Literature.

## Graduation Honors

Honors are awarded on the basis of outstanding moral and intellectual attainment. A student who has earned a quality-point average of 3.75 in his four years of college work will be graduated *Summa Cum Laude*; one who has earned 3.5, *Magna Cum Laude*; one who has earned 3.25, *Cum Laude*. These honors are announced at commencement and are inscribed on the diplomas of those meriting them.

*For students graduating in June, the final semester's work cannot be computed in determining the quality-point average for honors.*

Transfer students are eligible for honors at graduation only under the following conditions:

1. They must have completed at least *sixty-four* semester hours of work at Xavier University.
2. Their quality-point average must be computed on the basis of *all of their college work.*



3. Under no circumstances will honors be awarded that are higher than the honors merited by the quality-point average earned at Xavier University.

### **Residence Requirements**

Candidates for degrees must spend at least the last year in residence at Xavier University. Residence is the personal presence at the University of a student carrying a normal weekly load. To establish residence of a year for a bachelor's degree at the University, a student ordinarily must complete one-fourth of the total number of hours required for graduation.

### **Commencement Attendance Requirement**

All candidates for degrees must be present at the commencement exercise to receive their degrees.

### **General Requirements for Graduation**

In addition to the requisites of a particular program, a candidate for the bachelor's degree must fulfill the following requirements:

1. The candidate shall have qualified as a classified student in Xavier University and shall have all records from other institutions in order.
2. The candidate shall have completed an accepted academic program of not less than one hundred twenty-eight credit hours with an average of C. Specifically, an average of 2.0 (C) shall have been maintained in his *upper division* courses since surplus quality points are not transferable from *lower division* courses.
3. The candidate shall have completed all *lower division* objectives.
4. The candidate shall have fulfilled the *lower division* and *upper division* objectives in the matter of distribution of courses.
5. The candidate, except for the degree of *Bachelor of Literature*, shall have completed a minimum of eighteen credit hours in philosophy and psychology courses, exclusive of PI 132, a required Christian culture course.
6. The candidate, if a Catholic, shall have completed eight credit hours in formal courses in religion, and eight credit hours in Christian culture courses.
7. The candidate, if a non-Catholic, shall have successfully completed Th 3 and 5 (or their equivalent) and eight credit hours of Christian Culture courses.

8. The candidate shall have completed, *in residence*, the last thirty-two credit hours (C average) in courses approved by the College of Arts and Sciences.
9. The candidate whose major is in one of the natural sciences or mathematics must qualify by a written thesis. The original and one copy, required by the University, must be deposited with the registrar on or before the date designated in the University calendar. All other candidates must qualify by a comprehensive examination.
10. The candidate, with the approval of the head of the department, shall have made formal application to the dean for the degree sought. This form shall have been filed in the registrar's office at the beginning of the last session.
11. The candidate shall have discharged all financial obligations to Xavier University.

N.B. — No student will be considered eligible for graduation who has any deficiency at the beginning of the last session of his senior year, or who has fewer than one hundred and twelve credit hours of C average.

### **Reservation of Rights**

The University reserves the right to modify its graduation and other academic requirements as may seem necessary from time to time. It will be obligated only during the academic year of the student's registration by requirements published in the Catalogue for that year.

## Approved Curricula

### General Requirements for All Degrees

The block schedules on the following pages are given as guides to the preparation of individual programs of study.

Before registration each semester, departmental advisers and students are urged to check individual student programs *in detail* for:

1. Correct course levels — *lower division* or *upper division*. (*Upper division* courses may not be taken before the completion of required *lower division* courses in the field.)
2. Whether degree requirements are being fulfilled.
3. Correct Catalogue numbers of courses.
4. The maximum number of semester hours of credit permitted per semester at the respective class level — freshman, sophomore, junior, or senior. Permission to take an additional course may be granted only at the discretion of the dean.

The following requirements apply to all curricula and are to be noted carefully:

1. All candidates for degrees, whether in arts, in science, or in business administration, must complete the following requirements as the core of their liberal education.

	<i>Cr. Hrs.</i>
Christian Culture (four courses).....	8
English (composition and literature).....	12
History.....	6
Mathematics (except physical education, and A.B. option).....	6
Military Science.....	8
Modern Language* (depending on high school units).....	6/12
Philosophy.....	18
Psychology.....	3
Science.....	8
Speech.....	2
Theology.....	8

\*Not required in business administration.

2. In general, students in any program may fulfill requirements for the Bachelor of Arts degree by including two years of college Latin and six to twelve hours of modern language in their course of study. See block schedule for A.B. (General).
3. Students must complete from six to fifteen hours of *lower division* work preparatory to the major and the minor of their choice. They must also have no fewer than eighteen hours of *upper division* work in the major and no fewer than twelve hours of *upper division* work in the minor or minors, in all of which they must attain an average of C.
4. A minimum of one hundred and twenty-eight credit hours with an overall average of C are required for graduation. The last thirty-two must be in residence.
5. A thesis is required of majors in the natural sciences and in mathematics. In other programs the student must successfully complete the Senior Comprehensive Review and examination.
6. Non-Catholic students may substitute Th 3 and 5, totaling four credit hours, for Th 40, 41, 42, and 43, which are required of Catholic students. They, accordingly, may have to supplement their programs with four elective credit hours.
7. All students must complete Pl 132 and So 125 in addition to two other Christian Culture courses.
8. Students who present two or more high school units of a modern language and who pass a qualifying examination may complete Intermediate French, German, or Spanish in fulfillment of their modern language requirement.
9. In programs in which the student will not normally complete the *lower division* requirements for his minor in sophomore year (*e.g.* an English, history or economics major with an education minor), he will defer a prescribed sophomore course and complete the *lower division* requirement for his minor.
10. The student must have completed two years of Military Science (R.O.T.C.) unless exempted.
11. Seniors must make formal application for their degrees in the office of the registrar at the beginning of their final semester

## THE HONORS BACHELOR OF ARTS

The Honors Bachelor of Arts is awarded to students who have completed the entire Honors program of the University. This curriculum was instituted in the belief that its values meet the needs of the day for Christian humanism. It attempts to build a security based on those things that are themselves secure—the great languages and their literatures; the nature of science; the history of human thought and action; philosophy, by which men come to understand themselves, the ways of God with humankind, their dignity as men, and their obligations to their fellowmen.

Only those ranking high in their high school graduating classes will be admitted to the Honors program. A special board of admissions passes on the fitness of applicants. In doubtful cases applicants will take special examinations to determine their qualifications for the program.

In addition to the regular requirements for admission to the University, students accepted for the Honors course must have four units of Latin, and it is desirable that they have two units of Greek.

In the senior year twelve credit hours are unspecified so that medical Honors students may complete their science requirements. Others will employ this time in accordance with recommendations of the Honors Committee.

The following outlines the Honors curriculum:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Christian Culture....	—	8	Mathematics.....	6	—
Latin.....	8	18	Military Science.....	8	—
Greek.....	8-13	14	Modern Language... ..	6	—
Biology.....	8	—	Philosophy.....	3	22
Chemistry.....	10	—	Theology.....	8	—
English.....	6	9	Electives.....	—	18
History.....	6	6			

## Honors Bachelor of Arts

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Lt 28 Cicero.....	4	Lt 51 Virgil.....	4
En 3 English Comp.....	3	En 4 English Comp.....	3
Mt 11a Math. Analysis.....	3	Mt 11b Math. Analysis.....	3
Fr 1 Elem.*.....	3	Fr 2 Elem.....	3
or		Gk 21-17 Plato, Lysias†.....	7
Gk 1, 2 Elem. Greek.....	6	or	
Gk 17 Lysias.....	4	Gk 21 Plato.....	4
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Total.....	21-24	Total.....	21-24

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Lt 113 Adv. Latin Comp.....	3	Lt 131 Horace.....	3
Hs 7 Europe to 1500†.....	3	Hs 8 Europe since 1500.....	3
Bl 3 Zoology†.....	4	Bl 4 Zoology.....	4
Gk 160 Sophocles.....	4	Gk 171 Plato: Republic.....	4
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul.....	2
MS 31 Second Year Basic.....	2	MS 31 Second Year Basic.....	2
Elective (non-pre-med.).....	3	Pl 34 Logic.....	3
Elective (pre-med.).....	4-5		
Total.....	21-23	Total.....	21

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Gk 152 or 153 Homer.....	3	Gk 151 Homer.....	3
Lt 191 Lucretius.....	3	Lt 112 Tacitus.....	3
En 180 Survey, Amer. Lit.†... 3	3	En 141 Survey, Eng. Lit.....	3
Ch 3 Gen. Inorganic†.....	5	Ch 4 Gen. Inorganic.....	5
Pl 105 Phil. of Nature.....	3	Pl 111 Phil. Psychology.....	3
English Elective.....	3	Elective.....	3-4
Total.....	20	Total.....	20-21

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Pl 198a Saint Thomas.....	5	Pl 198b Saint Thomas.....	5
Lt 161 Roman Comedy.....	3	Lt 199 Senior Comp. Review..	3
or		Hs 142 U. S. since 1865.....	3
Lt 142 Juvenal.....	3	Pl 132 Pers., Soc. Ethics.....	3
Hs 141 U. S. to 1865.....	3	Electives.....	6
Pl 131 Prin. of Ethics.....	3		
Electives.....	6		
Total.....	20	Total.....	20

\*Students having two units of high school Greek will register for Fr 1 and Gk 17.

†Hs 7, 8 are offered on alternate years with En 180 and 141. Bl 3, 4 are offered on alternate years with Ch 3, 4.

‡Students who have completed Gk 17 will register for Gk 21. Those who have completed Gk 1, 2 will register for Gk 17 and 21.

## THE BACHELOR OF ARTS (General)

The Bachelor of Arts degree is conferred upon students who have satisfactorily completed two years of college Latin (with an average of C or better) and six to twelve hours of a modern language or twelve hours of Greek, along with the hours in the various fields indicated below.

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Latin . . . . .	12	—	Psychology . . . . .	3	—
English . . . . .	12	—	Speech . . . . .	2	—
History . . . . .	6	—	Theology . . . . .	8	—
Math. or Science . . . . .	6-8	—	Christian Culture . . . . .	—	8
Military Science . . . . .	8	—	Minor* . . . . .	—	12
Modern Language or			Major* . . . . .	—	18
Greek . . . . .	12	—	Electives . . . . .	—	6
Philosophy . . . . .	3	15			

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\*Departmental requirements for major and minor must be fulfilled. The hours listed above are the minimum.

## A.B. (General)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
Lt.....	3	Lt.....	3
ML 1 or Gk.....	3	ML 2 or Gk.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer.	2
Total.....	16	Total.....	16

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Lt.....	3	Lt.....	3
ML 31 or Gk.....	3	ML 32 or Gk.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ps 31 Gen. Psychology.....	3	Pl 34 Logic.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Major.....	6	Major.....	6
Minor.....	3	Minor.....	3
Mt or Science.....	3-4	Mt or Science.....	3-4
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology....	3
Total.....	17-18	Total.....	17-18

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ex 1 Prin. of Speech.....	2	Senior Comp. Rev.....	2
Major.....	3	Pl 132 Pers., Soc. Ethics....	3
Minor.....	3	Major.....	3
Pl 131 Prin. of Ethics.....	3	Minor.....	3
Christian Culture.....	2	Elective.....	6
Pl 105 Phil. of Nature.....	3	Total.....	17
Total.....	16	Total.....	17



## THE BACHELOR OF SCIENCE (Biology)

The Bachelor of Science is conferred on students who major in biology and who generally minor in mathematics or the other sciences. This department aims to assist in the liberal education of the student and to contribute to his cultural background. Lectures and laboratory studies are intended to give him a knowledge of basic biological principles as well as a training in careful, thoughtful, and independent observation, experimentation, and scientific analysis of data. The courses also provide an adequate biological foundation for subsequent professional studies in medicine, dentistry, and allied fields.

The minimum program requirements are:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Biology . . . . .	8	20	Modern Language . . . . .	6-12	—
Minor* . . . . .	6	12	Philosophy . . . . .	3	15
Christian Culture . . . . .	—	8	Psychology . . . . .	3	—
English . . . . .	12	—	Physics . . . . .	8	—
History . . . . .	6	—	Speech . . . . .	2	—
Mathematics . . . . .	6	—	Theology . . . . .	8	—
Military Science . . . . .	8	—			

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\*The minor may be in chemistry, mathematics, or physics, and must conform to the requirements of those departments.

## B.S. (Biology)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 3 Gen. Zoology.....	4	Bl 4 Gen. Zoology.....	4
Ch 3 Gen. Inorganic.....	5	Ch 4 Gen. Inorganic.....	5
En 3 English Comp.....	3	En 4 English Comp.....	3
Mt 4 College Algebra.....	3	Mt 5 Trigonometry.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer.	2
Total.....		Total.....	
	19		19

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 51 Elem. Quan. Analysis.	4	Ex 1 Prin. of Speech.....	2
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ph 3 College Physics.....	4	Ph 4 College Physics.....	4
Pl 34 Logic.....	3	Pl 100 Metaphysics.....	3
Th 42 Christ in His Church..	2	Ps 31 Gen. Psychology.....	3
	2	Th 43 Christ in the Soul....	2
Total.....		Total.....	
	18		19

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 101 Compar. Anatomy....	4	Bl 112 Embryology.....	4
Ch 101 Organic.....	5	Ch 102 Organic.....	5
ML 1 Elem.....	3	ML 2 Elem.....	3
Pl 111 Phil. Psychology.....	3	Pl 131 Prin. of Ethics.....	3
So 125 Marriage.....	2	CC Elective.....	2
Total.....		Total.....	
	17		17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl Elective.....	6	Bl Elective.....	4
CC Elective.....	2	Bl 199 Senior Thesis.....	2
En 31 Studies in Lit.....	3	Elective.....	2
ML 31 Interm.....	3	En 32 Studies in Lit.....	3
Pl 105 Phil. of Nature.....	3	Pl 132 Pers., Social Ethics..	3
	3	ML 32 Interm.....	3
Total.....		Total.....	
	17		17

## BUSINESS ADMINISTRATION PROGRAMS

The Business Administration programs adhere to the general objectives of the College of Arts and Sciences in attempting to develop the cultural, the intellectual, and the moral qualities of the student. In addition, the programs provide the basic knowledge required for understanding today's economic system. They further offer the opportunity to specialize in some phase of business training, which will help students assume positions of responsibility in the business world. The programs seek to strike a balance between cultural and business subjects, and to integrate philosophical and moral principles with business training.

The Bachelor of Science in Business Administration is conferred on students majoring in accounting, in economics, or in general business.

### THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Accounting)

The program in accounting is designed to provide intensive training of a comprehensive nature for the adequate preparation of public, private or industrial accountants; auditors; credit analysts and general business executives. The advanced courses which elaborate on the theory and practice of accounts, business analysis, costs, auditing and specialized accounting culminate in preparation for C.P.A. examinations and for actual entrance into the field of public accountancy.

Students majoring in accounting must complete these specified courses:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
Ac 51, 52	Principles of Accounting . . . . .	6
Ac 151, 152	Intermediate Accounting . . . . .	6
Ac 153	Advanced Accounting Problems . . . . .	3
Ac 155, 156	Industrial Accounting . . . . .	6
Ac 157	Taxation . . . . .	3
Ac 163	Auditing Principles . . . . .	3
Ac 199	Senior Comprehensive Review . . . . .	2
BA 21	Introduction to Business . . . . .	3
BA 123	Business Statistics . . . . .	3
BA 161, 162	Business Law . . . . .	6
Ec 11	Economic History of U. S. . . . .	3
Ec 33, 34	Principles of Economics . . . . .	6
Ec 151	Money and Banking . . . . .	3
Ec	Electives . . . . .	6
Ac	Elective . . . . .	1
<b>Total . . . . .</b>		<b>60</b>

The required curriculum for the degree follows:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Accounting . . . . .	6	24	Mathematics . . . . .	6	—
Business Administration . . . . .	3	9	Military Science . . . . .	8	—
Christian Culture . . . . .	—	8	Philosophy . . . . .	3	15
Economics . . . . .	9	9	Psychology . . . . .	3	—
English . . . . .	12	—	Science . . . . .	8	—
History . . . . .	6	—	Speech . . . . .	2	—
			Theology . . . . .	8	—

## B.S. in B.A. (Accounting)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac 51 Prin. of Accounting . . .	3	Ac 52 Prin. of Accounting . . .	3
Hs 7 Europe to 1500 . . . . .	3	Hs 8 Europe since 1500 . . . . .	3
Mt 1 or 4 . . . . .	3	Mt 2 Math. of Finance . . . . .	3
En 3 English Comp. . . . .	3	En 4 English Comp. . . . .	3
Th 40 Christ in the Gospels. . .	2	Th 41 Christ, Our Redeemer. . .	2
MS 1 First Year Basic. . . . .	2	MS 2 First Year Basic. . . . .	2
Total . . . . .		Total . . . . .	
	16		16

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac 151 Interm. Accounting . . .	3	Ac 152 Interm. Accounting . . .	3
BA 21 Introd. to Business . . .	3	Ec 11 Econ. Hist. of U. S. . . .	3
Ec 33 Prin. of Economics . . .	3	Ec 34 Prin. of Economics . . .	3
Th 42 Christ in His Church . . .	2	Th 43 Christ in the Soul . . . .	2
Ps 31 Gen. Psychology . . . . .	3	Pl 34 Logic . . . . .	3
MS 31 Second Year Basic. . . . .	2	MS 32 Second Year Basic. . . . .	2
Ex 1 Prin. of Speech . . . . .	2		
Total . . . . .		Total . . . . .	
	18		16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
BA 161 Business Law I . . . . .	3	BA 162 Business Law II . . . . .	3
BA 123 Business Statistics . . .	3	Ec 151 Money and Banking . . .	3
Ac 155 Indus. Accounting . . . .	3	Ac 156 Indus. Accounting . . . .	3
Science . . . . .	4	Science . . . . .	4
Pl 100 Metaphysics . . . . .	3	Pl 111 Phil. Psychology . . . . .	3
So 125 Marriage . . . . .	2	Christian Culture . . . . .	2
Total . . . . .		Total . . . . .	
	18		18

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac 153 Adv. Acct. Prob. . . . .	3	Ec Econ. elective . . . . .	3
Ac 163 Auditing Prin. . . . .	3	Ac 199 Senior Comp. Rev. . . . .	2
Ac 157 Taxation . . . . .	3	Pl 105 Phil. of Nature . . . . .	3
Ec Econ. elective . . . . .	3	En 32 Studies in Lit. . . . .	3
Pl 131 Prin. of Ethics . . . . .	3	Pl 132 Pers., Soc. Ethics . . . . .	3
En 31 Studies in Lit. . . . .	3	Ac Elective . . . . .	3
Christian Culture (Ec 189 recommended) . . . . .	2		
Total . . . . .		Total . . . . .	
	20		17

## THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (General Business)

The B.S. in B.A. program in general business covers the chief operations of a business enterprise. It should enable students to choose the area of business which interests them vocationally and advance in it to the administrative level.

In addition to his basic courses a student must take a mild concentration of at least six hours in four of the following areas of business administration: accounting (*upper division* courses), finance, marketing, personnel, labor, management, or transportation. Students majoring in general business must complete these specified courses:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
Ac 51, 52	Principles of Accounting . . . . .	6
Ac 162	Analysis of Financial Statements . . . . .	3
BA 21	Introduction to Business . . . . .	3
BA 123	Business Statistics . . . . .	3
BA 131	Principles of Marketing . . . . .	3
BA 161, 162	Business Law . . . . .	6
BA 165	Personnel Management . . . . .	3
BA 166	Personnel Problems . . . . .	3
BA 170	Business Organization and Management . . . . .	3
BA	Marketing elective (BA 132, 135, 147) . . . . .	3
BA	Finance elective (BA 157, Ec 155, 156, 158) <i>or</i> Management elective (BA 169, 175, 177, 178) . . . . .	3
BA 199	Senior Comprehensive Review . . . . .	2
Ec 11	Economic History of U. S. . . . .	3
Ec 33, 34	Principles of Economics . . . . .	6
Ec 103	Labor Economics . . . . .	3
Ec 104	Labor Relations . . . . .	3
Ec 151	Money and Banking . . . . .	3
Total . . . . .		59

NOTE: A student may substitute six credit hours of *upper division* work in accounting, management, or transportation for BA 165, 166 and/or Ec 103, 104.

Prescribed subjects and credit hours required for the B.S. in B.A. in general business follow:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Christian Culture . . . . .	—	8	Theology . . . . .	8	—
English . . . . .	12	—	Science . . . . .	8	—
History . . . . .	6	—	Speech . . . . .	2	—
Mathematics . . . . .	6	—	Business		
Military Science . . . . .	8	—	Administration . . . . .	3	29
Philosophy . . . . .	3	15	Economics . . . . .	9	9
Psychology . . . . .	3	—	Accounting . . . . .	6	3

## B.S. in B.A. (General Business)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac 51 Prin. of Accounting . . .	3	Ac 52 Prin. of Accounting . . .	3
Hs 7 Europe to 1500 . . . . .	3	Hs 8 Europe since 1500 . . . . .	3
Mt 1 or 4 . . . . .	3	Mt 2 Finance . . . . .	3
En 3 English Comp. . . . .	3	En 4 English Comp. . . . .	3
Th 40 Christ in the Gospels . . .	2	Th 41 Christ, Our Redeemer . . .	2
MS 1 First Year Basic . . . . .	2	MS 2 First Year Basic . . . . .	2
Total . . . . .		Total . . . . .	
	16		16

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
BA 21 Introd. to Business . . .	3	Ec 11 Econ. Hist. of U. S. . . . .	3
Ec 33 Prin. of Economics . . .	3	Ec 34 Prin. of Economics . . .	3
Science . . . . .	4	Science . . . . .	4
Th 42 Christ in His Church . . .	2	Th 43 Christ in the Soul . . . . .	2
Ps 31 Gen. Psychology . . . . .	3	Pl 34 Logic . . . . .	3
MS 31 Second Year Basic . . . . .	2	MS 32 Second Year Basic . . . . .	2
Total . . . . .		Total . . . . .	
	17		17

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
BA 161 Business Law I . . . . .	3	BA 162 Business Law II . . . . .	3
BA 123 Statistics . . . . .	3	Ec 151 Money and Banking . . .	3
BA 131 Prin. of Marketing . . . .	3	BA Mktg. elective . . . . .	3
BA 170 Bus. Org. and Mgt. . . . .	3	Ac 162 Anal. of Fin. Stat.	
Pl 100 Metaphysics . . . . .	3	or	
So 125 Marriage . . . . .	2	Ac 157 Taxation . . . . .	3
		Pl 111 Phil. Psychology . . . . .	3
		Christian Culture . . . . .	2
Total . . . . .		Total . . . . .	
	17		17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ec 103 Labor Economics . . . . .	3	Ec 104 Labor Relations . . . . .	3
BA 165 Personnel Mgt. . . . .	3	BA 166 Personnel Problems . . .	3
BA Elec. Mgt. or Fin. . . . .	3	En 32 Studies in Lit. . . . .	3
Pl 131 Prin. of Ethics . . . . .	3	BA 199 Senior Comp. Rev. . . . .	2
En 31 Studies in Lit. . . . .	3	Pl 105 Phil. of Nature . . . . .	3
Ex 1 Prin. of Speech . . . . .	2	Pl 132 Pers., Soc. Ethics . . . . .	3
Christian Culture (Ec 189 recommended) . . . . .	2		
Total . . . . .		Total . . . . .	
	19		17

## THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Economics)

This Bachelor of Science in Business Administration provides the student with basic principles and procedures fundamental to the intellectual analysis of economic problems of the individual firm, industry, and the economy as a whole. Such training prepares the student to recognize the problem, to analyze it objectively, and to offer a proper solution. The program is beneficial to those who wish to assume positions as economists, either private or public; business analysts; investment analysts; business executives; and labor leaders. It encourages them not only to solve individual problems, but to analyze the monetary and fiscal policy of the government in relation to its effects on the total economy.

Students working for the B.S. in B.A. (Economics) must complete these specified courses:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
Ac 51, 52	Principles of Accounting . . . . .	6
Ac 151, 152	Intermediate Accounting . . . . .	6
Ac 155	Industrial Accounting . . . . .	3
Ac	Ac 157: Taxation; Ac 162: Analysis of Financial Statements; or Ac 163: Auditing Principles . . . . .	3
BA 21	Introduction to Business . . . . .	3
BA 123	Business Statistics . . . . .	3
BA 161, 162	Business Law . . . . .	6
Ec 11	Economics History of U. S. . . . .	3
Ec 33, 34	Principles of Economics . . . . .	6
Ec 151	Money and Banking . . . . .	3
Ec 188	Intermediate Economic Analysis . . . . .	3
Ec	Electives . . . . .	12
Ec 199	Senior Comprehensive Review . . . . .	2
	<b>Total . . . . .</b>	<b>59</b>

Prescribed subjects and credit hours required for the B.S. in B.A. (Economics) follow:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Accounting . . . . .	6	12	Mathematics . . . . .	6	—
Business Administration . . . . .	3	9	Military Science . . . . .	8	—
Christian Culture . . . . .	—	8	Philosophy . . . . .	3	15
Economics . . . . .	9	20	Psychology . . . . .	3	—
English . . . . .	12	—	Theology . . . . .	8	—
History . . . . .	6	—	Science . . . . .	8	—
			Speech . . . . .	2	—

## B.S. in B.A. (Economics)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac 51 Prin. of Accounting . . .	3	Ac 52 Prin. of Accounting . . .	3
Hs 7 Europe to 1500 . . . . .	3	Hs 8 Europe since 1500 . . . . .	3
Mt 1 or 4 . . . . .	3	Mt 2 Math. of Finance . . . . .	3
En 3 English Comp. . . . .	3	En 4 English Comp. . . . .	3
Th 40 Christ in the Gospels . . .	2	Th 41 Christ, Our Redeemer . . .	2
MS 1 First Year Basic . . . . .	2	MS 2 First Year Basic . . . . .	2
Total . . . . .		Total . . . . .	
16		16	

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac 151 Interm. Accounting . . .	3	Ac 152 Interm. Accounting . . .	3
BA 21 Introd. to Business . . .	3	Ec 11 Econ. Hist. of U. S. . . .	3
Ec 33 Prin. of Economics . . .	3	Ec 34 Prin. of Economics . . .	3
Th 42 Christ in His Church . . .	2	Th 43 Christ in the Soul . . . .	2
Ps 31 General Psychology . . .	3	Pl 34 Logic . . . . .	3
MS 31 Second Year Basic . . . .	2	MS 32 Second Year Basic . . . .	2
Total . . . . .		Ex 1 Prin. of Speech . . . . .	2
16		Total . . . . .	
		18	

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
BA 161 Business Law I . . . . .	3	BA 162 Business Law II . . . . .	3
BA 123 Business Statistics . . .	3	Ec 151 Money and Banking . . .	3
Ac 155 Indus. Accounting . . .	3	Ec Elective . . . . .	3
Science . . . . .	4	Science . . . . .	4
Pl 100 Metaphysics . . . . .	3	Pl 111 Phil. Psychology . . . . .	3
So 125 Marriage . . . . .	2	Christian Culture	
Total . . . . .		(So 126 recommended) . . . . .	2
18		Total . . . . .	
		18	

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ac Elective (157, 162, 163) . . .	3	Ec Economics elective . . . . .	6
Ec 188 Inter. Econ. Anal. . . . .	3	Ec 199 Senior Comp. Rev. . . . .	2
Ec Economics elective . . . . .	3	Pl 105 Phil. of Nature . . . . .	3
Pl 131 Prin. of Ethics . . . . .	3	En 32 Studies in Lit. . . . .	3
En 31 Studies in Lit. . . . .	3	Pl 132 Pers., Soc. Ethics . . . . .	3
Christian Culture		Total . . . . .	
(Ec 189 recommended) . . . . .	2	17	
Total . . . . .			
17			



## THE BACHELOR OF SCIENCE (Economics)

A Bachelor of Science degree in economics is offered those who wish to take the traditional liberal arts program. The curriculum of an economics major is designed to satisfy the student's desire for a broad liberal arts background, and to provide a general, but thorough, understanding and appreciation of economic activity.

Students majoring in economics must complete these specific courses:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
Ec 33, 34	Principles of Economics . . . . .	6
Ec 103	Labor Economics . . . . .	3
BA 123	Business Statistics . . . . .	3
Ec 151	Money and Banking . . . . .	3
Ec 188	Intermediate Economic Analysis . . . . .	3
Ec	Electives . . . . .	6
Ec 199	Senior Comprehensive Review . . . . .	2
	Total . . . . .	26

Prescribed subjects and credit hours required for the B.S. (Economics) follow:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Economics (with B.A.) . . . . .	6	20	Military Science . . . . .	8	—
Minor . . . . .	6	12	Philosophy . . . . .	3	15
Christian Culture . . . . .	—	8	Psychology . . . . .	3	—
English . . . . .	12	—	Theology . . . . .	8	—
History . . . . .	6	—	Science . . . . .	8	—
Mathematics . . . . .	6	—	Speech . . . . .	2	—
Modern Language . . . . .	6-12	—	Electives . . . . .	—	6

## B.S. (Economics)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Science.....	4	Science.....	4
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ec 33 Prin. of Economics... 3	3	Ec 34 Prin. of Economics... 3	3
En 31 Studies in Lit..... 3	3	En 32 Studies in Lit..... 3	3
ML 31 or Mt 1 or 4..... 3	3	ML 32 or Mt 2 or 3..... 3	3
Ps 31 Gen. Psychology..... 3	3	Pl 34 Logic..... 3	3
Th 42 Christ in His Church.. 2	2	Th 43 Christ in the Soul... 2	2
MS 31 Second Year Basic.... 2	2	MS 32 Second Year Basic.... 2	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ec 103 Labor Economics.... 3	3	Ec 151 Money and Banking.. 3	3
Ec Elective..... 3	3	Ec Electives..... 3	3
Minor..... 3	3	Minor..... 3	3
Mt 1 or 4 or elective..... 3	3	Mt 2 or 5 or elective..... 3	3
Pl 100 Metaphysics..... 3	3	Pl 111 Phil. Psychology.... 3	3
So 125 Marriage..... 2	2	Christian Culture (So 126 recommended).... 2	2
Total.....	17	Total.....	17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
BA 123 Business Statistics... 3	3	Electives..... 6	6
Ec 188 Inter. Econ. Anal.... 3	3	Ec 199 Senior Comp. Rev.... 2	2
Minor..... 3	3	Minor..... 3	3
Pl 131 Prin. of Ethics..... 3	3	Pl 105 Phil. of Nature..... 3	3
Ex 1 Prin. of Speech..... 2	2	Pl 132 Pers., Soc. Ethics.... 3	3
Christian Culture (Ec. 189 recommended).... 2	2	Total.....	17
Total.....	16		

## THE BACHELOR OF SCIENCE (Chemistry)

The Department of Chemistry offers a comprehensive curriculum leading to the Bachelor of Science. The program covers the four major fields (inorganic, analytical, organic, and physical chemistry), the preparation and identification of compounds, and the literature on the subject. Ch 190 (Chemical Literature) fits the student to prepare his thesis and amounts to a beginning course in research.

Departmental requirements for a major include:

1. The completion of Ch 3, 4, and 51 as an introduction to *upper division* work.
2. The completion of Ch 101, 102, 106, 107, 116, 125, 126, and 152, or the equivalent.
3. A senior thesis, Ch 199.

Departmental requirements for a minor include:

1. The completion of Ch 3, 4, and 51 as an introduction to *upper division work*.
2. The completion of Ch 101 and 102.

The minimum program requirements follow:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Chemistry . . . . .	14	31	Modern Language . . . . .	6-12	—
Christian Culture . . . . .	—	8	Philosophy . . . . .	3	15
English . . . . .	12	—	Psychology . . . . .	3	—
History . . . . .	6	—	Physics . . . . .	8	—
Mathematics . . . . .	9	9	Theology . . . . .	8	—
Military Science . . . . .	8	—	Speech . . . . .	2	—

## B.S. (Chemistry)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 3 General Inorganic . . . . .	5	Pl 34 Logic . . . . .	3
En 3 English Comp. . . . .	3	Ch 4 General Inorganic . . . . .	5
MS 1 First Year Basic . . . . .	2	En 4 English Comp. . . . .	3
Mt 5 Trigonometry . . . . .	3	MS 2 First Year Basic . . . . .	2
Mt 4 College Algebra . . . . .	3	Mt 50 Calculus, Geom. I . . . . .	3
Th 40 Christ in the Gospels . . . . .	2	Th 41 Christ, Our Redeemer . . . . .	2
Total . . . . .	18	Total . . . . .	18

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 51 Elem. Quan. Analysis . . . . .	4	Ch 116 Quan. Analysis II . . . . .	4
Gr 1 Elem. . . . .	3	Gr 2 Elem. . . . .	3
MS 31 Second Year Basic . . . . .	2	MS 32 Second Year Basic . . . . .	2
Mt 51 Calculus, Geom. II . . . . .	3	Mt 52 Calculus, Geom. III . . . . .	3
Pn 3 College Physics . . . . .	4	Ph 4 College Physics . . . . .	4
Th 42 Christ in His Church . . . . .	2	Th 43 Christ in the Soul . . . . .	2
Total . . . . .	18	Total . . . . .	18

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage . . . . .	2	Christian Culture . . . . .	2
Ch 101 Organic . . . . .	5	Ch 102 Organic . . . . .	5
En 31 Studies in Lit. . . . .	3	En 32 Studies in Lit. . . . .	3
Gr 33 or 31 . . . . .	3	Gr 34 or 32 . . . . .	3
Pl 100 Metaphysics . . . . .	3	Mt 154 Diff. Equations . . . . .	3
Ps 31 Gen. Psychology . . . . .	3	Pl 111 Phil. Psychology . . . . .	3
Total . . . . .	19	Total . . . . .	19

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 125 Physical Chem. . . . .	4	Ch 126 Physical Chem. . . . .	4
Ch 152a Org. Preparations . . . . .	1	Ch 106 Qualitative Organic . . . . .	3
Ch 107 Type Reactions of Organic Chemistry . . . . .	3	Hs 8 Europe since 1500 . . . . .	3
Hs 7 Europe to 1500 . . . . .	3	Pl 105 Phil. of Nature . . . . .	3
Ex 1 Prin. of Speech . . . . .	2	Pl 132 Pers., Social Ethics . . . . .	3
Pl 131 Prin. of Ethics . . . . .	3	Ch 199 Thesis . . . . .	2
Christian Culture . . . . .	2	Total . . . . .	18
Total . . . . .	18		

## THE BACHELOR OF SCIENCE (English)

The Department of English offers training in composition in the literature of England and of America, in literary backgrounds, and in criticism. The program results in cultural enrichment and in numerous vocational possibilities. It leads to the Bachelor of Science (or of Arts if two years of college Latin are completed).

Clear and forceful expression is one of the major objectives of education. The ability to speak and write at the college level, therefore, is demanded of all Xavier students. Deficiencies and carelessness in the use of English in term papers, examinations, and oral reports will not be tolerated in any department. As often as it becomes necessary, students will be required to do remedial work in communication in any year of their courses.

Particular attention is called to the following regulation passed by the Academic Council, November 28, 1950:

The violation of any of the ESSENTIALS FOR WRITING (list submitted by the Department of English) in term papers or reports submitted by students to any professor must be penalized by a reduction in grade. Any unsatisfactory term paper or report submitted to any professor must be returned for re-writing and must be automatically penalized by the reduction of one letter in grading, e.g., a B paper automatically becomes a C paper.

En 3, 4: English Composition, required of all students in the University in freshman year, and En 31, 32: Studies in Literature are generally prerequisite to *upper division* courses.

Students majoring or minoring in English should include En 111, 141, 150, and 180 in their programs. Majors also must complete En 199.

A summary of the curriculum follows:

Subject	Sem. Hrs.		Subject	Sem. Hrs.	
	L.D.	U.D.		L.D.	U.D.
English.....	12	20	Philosophy.....	3	15
Minor.....	6	12	Psychology.....	3	—
Christian Culture....	—	8	Theology.....	8	—
History.....	6	—	Science.....	8	—
Mathematics.....	6	—	Speech.....	2	—
Modern Language... 6-12	—	—	Elective.....	—	6
Military Science....	8	—			

## B.S. (English)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Science.....	4	Science.....	4
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Mt 4 College Algebra		Mt 5 Trigonometry	
or		or	
Mt 1 Interm. Algebra.....	3	Mt 2 Math. of Finance.....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
MS 31 Second Year Basic.....	2	MS 32 Second Year Basic....	2
Ps 31 Gen. Psychology.....	3	Pl 34 Logic.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
En 141 Survey, English Lit..	3	Pl 105 Phil. of Nature.....	3
En 150 Shakespeare.....	3	En 111 Aesthetics.....	3
Ex 1 Prin. of Speech.....	2	En 180 Survey, Amer. Lit....	3
Minor.....	3	Minor.....	3
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology....	3
Total.....	16	Total.....	17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Christian Culture.....	2	Pl 132 Pers., Social Ethics... 8	8
Electives.....	6	En 199 Senior Comp. Rev....	2
En Elective.....	3	En Elective.....	3
Minor.....	3	Minor.....	3
Pl 131 Prin. of Ethics.....	3	Elective.....	3
Total.....	17	Total.....	14

## THE BACHELOR OF SCIENCE (Communications Arts)

The concentration in Communication Arts consists of a major in English and a minor in one of two fields.

The major in English must include En 3, 4: English Composition, and En 31, 32: Studies in Literature. It is recommended that the major also include En 111, 141, 150 and 180.

The minor may be in Dramatics or Radio-TV:

1. **Dramatics.** This minor affords both professional and cultural knowledge of acting, directing, producing, and playwriting. Courses include Acting Technique, Directing, Stagecraft, Play Production, Playwriting, and related subjects. Masque Society productions allow students to gain theatrical experience.
2. **Radio-TV.** This minor is offered in cooperation with the Cincinnati College-Conservatory of Music and includes Announcing, Audio-Video Equipment, Fundamentals of Radio-TV, Continuity Writing, TV Production and Direction, and TV Station Operation. This minor must total at least eighteen semester hours.

Specific degree requirements follow:

<i>Subject</i>	<i>Sem. Hrs.</i>			<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
English.....	12	20	Military Science.....	8	—
Minor.....	6	12	Philosophy.....	3	15
Christian Culture....	—	8	Psychology.....	3	—
History.....	6	—	Theology.....	8	—
Mathematics.....	6	—	Science.....	8	—
Modern Language... 6-12	—	—	Speech.....	2	—

## B.S. (Communication Arts)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 1 First Year Basic....	2	MS 2 First Year Basic....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Science.....	4	Science.....	4
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Mt 4 College Algebra		Mt 5 Trigonometry	
or		or	
Mt 1 Interm. Algebra.....	3	Mt 2 Math. of Finance....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ps 31 Gen. Psychology.....	3	Pl 34 Logic.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Minor.....	3
En 141 Survey, Eng. Lit.....	3	Christian Culture.....	2
En 150 Shakespeare.....	3	En 111 Aesthetics.....	3
Ex 1 Speech.....	2	En 180 Survey, Amer. Lit....	3
Minor.....	3	Pl 111 Phil. Psychology....	3
Pl 100 Metaphysics.....	3	Elective or Minor.....	3
Total.....	16	Total.....	17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Christian Culture.....	2	Pl 132 Pers., Social Ethics... 3	3
Elective.....	2	En Elective.....	3
En Elective.....	3	En 199 Senior Comp. Rev....	2
Pl 131 Prin. of Ethics.....	3	Pl 105 Phil. of Nature.....	3
Minor.....	3	Minor.....	3
Elective.....	3		
Total.....	16	Total.....	14



## THE BACHELOR OF SCIENCE (Hispanic Studies)

The Institute of Hispanic Studies provides a comprehensive and integrated program of studies in the language, the literature, the history, the culture, the geography, and the economy of the Hispanic world. The growing strength and importance of the United States in Spain and in Latin America, and the vast investments of American business in those countries have created a demand for specialists whose knowledge of the culture, the civilization, and the attitudes of the Hispanic peoples will enable them to fit rapidly and effectively into this environment.

Students major for this degree either in history or in Spanish.

The following outline summarizes the curriculum:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Economics . . . . .	6	—	Military Science . . . . .	8	—
Electives . . . . .	—	6	Philosophy . . . . .	3	15
English . . . . .	12	—	Psychology . . . . .	3	—
Geography . . . . .	3	—	Science . . . . .	8	—
History . . . . .	6	—	Spanish . . . . .	6-12	—
(Spanish major) . . . . .	—	18	(History major) . . . . .	—	17
(History major) . . . . .	—	23	(Spanish major) . . . . .	—	23
Christian Culture . . . . .	—	8	Speech . . . . .	2	—
Mathematics . . . . .	6	—	Theology . . . . .	8	—

### Certificate in International Trade

For those who seek this basic training in preparation for a business career in Latin America, the Institute offers an opportunity to combine with the Bachelor's program the Certificate in International Trade issued by the Evening College. To receive the Certificate at least fourteen hours' credit must be taken in the Evening College.

Those seeking the Certificate in International Trade must include these courses:

<i>Course No.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
Hs 177	Contemporary Problems of World Peace . . . . .	2-3
Po 151	International Law . . . . .	2-3
Ec 184	Principles of International Trade . . . . .	3
Ec 151	Money and Banking . . . . .	3
Ec 159	International Monetary Policy . . . . .	3
Ec 108	International Labor Problems . . . . .	3
Ec 191	Economic Problems of Latin America . . . . .	3
BA 123	Business Statistics . . . . .	3
Total . . . . .		22-24

## B.S. (Hispanic Studies)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
Sp 1 Elem. Spanish.....	3	Sp 2 Elem. Spanish.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer.	2
Science.....	4	Science.....	4
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Mt 4 College Algebra.....	3	Mt 5 Trigonometry.....	3
Sp 31 Interm. Spanish		Sp 32 Interm. Spanish	
or		or	
Sp 170 Modern Short Story..	3	Sp 172 Modern Novel.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Pl 34 Logic.....	3	Ps 31 Gen. Psychology.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	So 195 Rebuild. Soc. Order..	2
Hs 141 U. S. to 1865.....	3	Hs 142 U. S. since 1865....	3
Hs 161 Spain.....	3	Hs or Sp Elective.....	3
Sp 180 Spanish Authors.....	3	Sp 181 Spanish Authors.....	3
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology.....	3
Ec. 33 Prin. of Economics... 3	3	Ec 34 Prin. of Economics... 3	3
Total.....	17	Total.....	17

### Senior Year—History Major

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Sp 155 <i>Teatro del Siglo</i> .....	3	Pl 132 Pers., Social Ethics... 3	3
Pl 131 Prin. of Ethics.....	3	Pl 105 Phil. of Nature.....	3
Ex 1 Prin. of Speech.....	2	Gg 160 Geog., Latin Amer....	3
Hs 151 Col. Hispanic Amer... 3	3	Hs 152 Repub. Hispanic Amer. 3	3
Hs 194 Historical Crit.....	3	Hs 199 Comp. Review.....	2
Elective.....	3	Elective.....	3
Total.....	17	Total.....	17

### Senior Year—Spanish Major

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Sp 155 <i>Teatro del Siglo</i> .....	3	Pl 132 Pers., Social Ethics... 3	3
Pl 131 Prin. of Ethics.....	3	Pl 105 Phil. of Nature.....	3
Ex 1 Prin. of Speech.....	2	Gg 160 Geog., Latin Amer....	3
Hs 151 Col. Hispanic Amer... 3	3	Hs 152 Repub. Hispanic Amer. 3	3
Sp 140 Span. Amer. Lit.....	3	Sp 141 Span. Amer. Lit.....	3
Elective.....	3	Sp 199 Comp. Review.....	2
		Elective.....	3
Total.....	17	Total.....	20

## THE BACHELOR OF SCIENCE (History)

The Bachelor of Science is conferred on the student who majors in history. The program requires Hs 7, 8: Europe, which is prerequisite to all *upper division* work in history. Hs 194: Historical Criticism, must be completed by all *majors* in the first semester of their senior year.

History is studied as a liberal art for its primary value of training toward proper appreciation of human living. Its insistence on accurate detail, on proof, and on the relation of cause and effect, cultivates habits of mature judgment. It helps toward developing due respect and sympathy for others, and supreme regard for the final purpose of life.

Specific degree requirements follow:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
History . . . . .	6	23	Military Science . . . . .	8	—
Minor . . . . .	6	12	Philosophy . . . . .	3	15
Christian Culture . . . . .	—	8	Psychology . . . . .	3	—
English . . . . .	12	—	Science . . . . .	8	—
Mathematics . . . . .	6	—	Speech . . . . .	2	—
Modern Languages . . . . .	6-12	—	Theology . . . . .	8	—

## B.S. (History)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer.	2
Science.....	4	Science.....	4
<hr style="width: 100%;"/>			
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Mt 4 College Algebra		Mt 5 Trigonometry	
or		or	
Mt 1 Interm. Algebra.....	3	Mt 2 Math. of Finance.....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ps 31 Gen. Psychology.....	3	Pl 34 Logic.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
<hr style="width: 100%;"/>			
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Elective.....	3	Elective.....	3
Hs Elective.....	6	Hs Elective.....	6
Minor.....	3	Minor.....	3
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology.....	3
<hr style="width: 100%;"/>			
Total.....	17	Total.....	17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Christian Culture.....	2	Pl 132 Pers., Social Ethics... 3	3
Ex 1 Prin. of Speech.....	2	Hs 199 Senior Comp. Rev.... 2	2
Hs 194 Historical Crit.....	3	Hs Elective.....	3
Hs Elective.....	3	Elective.....	3
Minor.....	3	Minor.....	3
Pl 131 Prin. of Ethics.....	3	Pl 105 Phil. of Nature.....	3
<hr style="width: 100%;"/>			
Total.....	16	Total.....	17

## THE BACHELOR OF SCIENCE (Mathematics)

The Department of Mathematics offers a program intended to develop exact methods of thought and analysis, provide the mathematical background for work in science and business, and prepare students for teaching and for graduate work.

Those who have completed two units of algebra or a semester of trigonometry should discuss the advisability of omitting Mt 4, 5, with the Chairman of the Department of Mathematics before they register.

Mt 1: Intermediate Algebra is meant for students who need to review elementary algebra. Mt 4: College Algebra rapidly reviews elementary algebra and then treats advanced phases of it. Mt 5: Trigonometry is recommended for students who have had no trigonometry. Mt 52 is prerequisite to *upper division* work in mathematics.

A minor in mathematics consists of 6-15 hours of *lower division* courses and 6 hours of *upper division* courses.

The program is summarized:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Mathematics . . . . .	6-15	23-26	Military Science . . . . .	8	—
Minor* . . . . .	6	12	Modern Language . . . . .	6-12	—
Science . . . . .	8	—	Philosophy . . . . .	3	15
Christian Culture . . . . .	—	8	Psychology . . . . .	3	—
English . . . . .	12	—	Speech . . . . .	2	—
History . . . . .	6	—	Theology . . . . .	8	—

\*The minor may be in such fields as physics, economics, or English, and must conform to the requirements of those departments.

## B.S. (Mathematics)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
Mt 4 College Algebra.....	3	Mt 50 Calculus, Geom. I....	3
Mt 5 Trigonometry.....	3	Pl 34 Logic.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Total.....		Total.....	
	19		19

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
Mt 51 Calculus, Geom. II...	3	Mt 52 Calculus, Geom. III...	3
Science.....	4	Science.....	4
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....		Total.....	
	17		17

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Ps 31 Gen. Psychology.....	3	Pl 105 Phil. of Nature.....	3
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology....	3
Ex 1 Prin. of Speech.....	2	Mt 153 Advanced Calculus...	3
Mt 108 Diff. Equ. and Series..	3	Mt 145 Modern Algebra II...	3
Mt 144 Modern Algebra I....	3	Minor.....	3
Minor.....	3		
Total.....		Total.....	
	19		17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Christian Culture.....	2	Pl 132 Pers., Social Ethics...	3
Pl 131 Prin. of Ethics.....	3	Mt 124 Math. Statistics.....	3
Mt 156 Interm. Analysis.....	3	Mt 181 Elem. Topology*....	3
Mt 162 Higher Geometry....	3	Minor.....	3
Minor.....	3	Elective.....	3
Elective.....	3	Mt 199 Senior Comp. Review..	2
Total.....		Total.....	
	17		17

\*A course in a cognate field may, with permission, be substituted for Mt 181.

## THE BACHELOR OF SCIENCE (Modern Languages)

The Department of Modern Languages offers programs leading to the Bachelor of Science in French, German, or Spanish. The aim of the department is to teach the language as a means of introducing the student to another culture.

In lower division courses, the objective is reasonable mastery of grammar, syntax, pronunciation and inflection, and the ability to write simple compositions and to read current journals and popular authors. Second year courses concentrate on speaking and comprehension. The course in scientific German, however, stresses reading alone.

*Upper division* courses stress aural comprehension, oral expression, writing, and reading. The full value is found in a knowledge and appreciation of the literature of the language and of the civilization of the peoples to whom the language is native.

The department requires a placement examination of freshmen having two or more units in modern language in order to determine their proficiency.

An outline of the curriculum follows:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
French, German, or			Military Science.....	8	—
Spanish.....	12	20	Philosophy.....	3	15
Minor.....	6	12	Psychology.....	3	—
Christian Culture....	—	8	Science.....	8	—
English.....	12	—	Speech.....	2	—
History.....	6	—	Theology.....	8	—
Mathematics.....	6	—	Electives.....	—	12

## B.S. (Modern Languages)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Science.....	4	Science.....	4
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Mt 4 College Algebra.....	3	Mt 5 Trigonometry.....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ps 31 Gen. Psychology.....	3	Pl 34 Logic.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Minor.....	3	Minor.....	3
Fr 101, Gr 101, Sp 101.....	3	Fr 151, Gr 161, Sp 152....	3
Fr 161, Gr 132, Sp 180.....	3	Fr 162, Gr 133, Sp 181....	3
Pl 100 Metaphysics.....	3	Pl 105 Phil. of Nature.....	3
Elective.....	3	Pl 111 Phil. Psychology....	3
Total.....	17	Total.....	17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Pl 131 Prin. of Ethics.....	3	Pl 132 Pers., Social Ethics..	3
Major Elective.....	3	Major Elective.....	3
Minor.....	3	Minor.....	3
Electives.....	6	Elective.....	3
Christian Culture.....	2	Ex 1 Prin. of Speech.....	2
		Senior Comp. Rev.....	2
Total.....	17	Total.....	16



## THE BACHELOR OF SCIENCE (Philosophy)

The Bachelor of Science in philosophy is conferred on students who major in philosophy and complete two minors. One minor must be in English, history, a modern language, or a classical language. (Latin qualifies the candidate for the Bachelor of Arts.) The second minor is unspecified.

Students are encouraged to include French and Latin if possible because of their value for advanced study in philosophy.

Departmental requirements in philosophy follow:

A. For all students working *for any degree*: Pl 34, 100, 105, 111, 131, 132.

B. For a major: Pl 34, 100, 105, 106, 111, 131, 132, 133, 151 or 161, 199.

Majors in philosophy will come to a recognition of the unity of knowledge and of the nature of mental life and its processes. They will gain the power of reasonable criticism, a realization of the dignity of human nature, and an illumination of the rational foundation of religion.

A summary of the program follows:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Philosophy . . . . .	3	25	Modern Language . . .	6-12	—
Minor 1 . . . . .	6	12	Military Science . . . . .	8	—
Minor 2 . . . . .	6	12	Psychology . . . . .	3	—
Christian Culture* . . .	—	8	Science . . . . .	8	—
English . . . . .	12	—	Speech . . . . .	2	—
History . . . . .	6	—	Theology . . . . .	8	—
Mathematics . . . . .	6	—	Electives . . . . .	—	12

\*The University's general requirement in Christian Culture is fulfilled through Pl 106 and 132, So 125, and one additional course.

## B.S. (Philosophy)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer.	2
Science.....	4	Science.....	4
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
ML 31 Interm.....	3	Mt 4 College Algebra.....	3
MS 31 Second Year Basic....	2	ML 32 Interm.....	3
Pl 34 Logic.....	3	MS 32 Second Year Basic....	2
Ps 31 Gen. Psychology.....	3	Pl 100 Metaphysics.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Elective.....	3
Mt 5 Trigonometry.....	3	Minors.....	6
Minors.....	6	Pl 106 Natural Theology....	2
Pl 105 Phil. of Nature.....	3	Pl 131 Prin. of Ethics.....	3
Pl 111 Phil. Psychology.....	3	Pl 151 Hist. Ancient Phil.	3
		or	
		Pl 161 Hist. Mediaeval Phil..	3
Total.....	17	Total.....	17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ex 1 Prin. of Speech.....	2	Christian Culture.....	2
Elective.....	3	Electives.....	6
Minors.....	6	Minors.....	6
Pl 133 Hist. Modern Phil....	3	Comp. Review.....	2
Pl 132 Pers., Social Ethics...	3		
Total.....	17	Total.....	16

## TEACHER CERTIFICATION

The courses in education, planned to provide the required preparation for teaching in secondary schools, are open to students majoring in any department.

The minimum professional requirements for high school certification in Ohio are:

1. For the teaching of any subject: Ed 31, 32, 101, 102, 103, and a two-hour elective in education. These constitute a minor in education.
2. For teaching health and physical education: Bl 9, 10, Ed 63, 64, 161, 162, 165, 166, 167 and 168 in addition. These courses, together with those listed under 1, above, constitute a major in physical education, and lead to the Bachelor of Science.
3. For teaching other subjects (history, English, etc.), the student must consult the specific state requirements for each subject. Copies of these requirements may be secured in the office of the Chairman of the Department of Education.

Students desirous of meeting professional requirements of other states, should obtain an official statement of specific requirements from the Department of Education of their respective states, and consult the Chairman of the Department before registering for courses in education.

### THE BACHELOR OF SCIENCE (Physical Education)

The minimum program requirements for the Bachelor of Science in Physical Education are:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Education.....	6	30	Modern Language...6-12	—	
Minor.....	6	12	Philosophy.....	3	15
Christian Culture....	—	8	Psychology.....	3	—
English.....	12	—	Science (Bl 9, 10)....	6	—
History.....	6	—	Speech.....	2	—
Military Science.....	8	—	Theology.....	8	—

## B.S. (Physical Education)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 9 Human Anatomy*....	3	Bl 10 Human Anatomy*....	3
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 1 First Year Basic....	2	MS 2 First Year Basic....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Total.....	16	Total.....	16

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ps 31 Gen. Psychology*....	3	Pl 34 Logic*.....	3
Ed 31 Prin. of Education....	3	Ed 32 Ed. Psychology.....	3
Ed 165 Coaching†.....	2	Ed 166 Coaching†.....	2
Ed 167 Health and Hygiene†.	2	Ed 168 Health and Hygiene†.	2
ML 31 Interim.....	3	ML 32 Interim.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Total.....	17	Total.....	17

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Ed 101 Secondary Methods... 2	2	Ed 102 Secon. Curriculum... 2	2
Ed 163 Phys. Education†.... 2	2	Ed 164 Phys. Education†.... 2	2
Minor.....	3	Minor.....	3
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology..... 3	3
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Total.....	15	Total.....	15

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ed 103 Stud. Teaching.....	6	Ed 199 Senior Comp. Rev....	2
Ed 161 Admin. of Phys. Ed... 3	3	Ed 162 Admin. of Health Ed.. 3	3
Ex 1 Prin. of Speech.....	2	Minor.....	6
Pl 131 Prin. of Ethics.....	3	Pl 105 Phil. of Nature.....	3
Christian Culture.....	2	Pl 132 Pers., Social Ethics... 3	3
Total.....	16	Total.....	17

\*Bl 9 and 10 will be offered every other year alternating with Ps 31 and Pl 34 in the freshman-sophomore program.

†In alternate years when Ed 165, 166 and Ed 167, 168 are not taught, substitute Ed 163, 164.

## THE BACHELOR OF SCIENCE (Physics)

The Department of Physics offers a curriculum leading to the Bachelor of Science in physics.

The educational benefits to be derived from a study of the science of physics are training in scientific method, acquaintance with the historical development of physical science, and a knowledge of the applications of physical laws which play so large a part in modern life. In all physics courses emphasis is laid on the intelligent comprehension of basic principles rather than on study of outmoded applications.

Requirements for a major in physics include:

1. The completion of Ph 13, 14: University Physics, and Ch 3, 4: Inorganic Chemistry, as an introduction to *upper division* work.
2. Completion of twenty-two additional credit hours of *upper division* courses including a thesis in physics with a minimum grade of C.

With approval of the Departments of Chemistry and of Physics six credit hours in physical chemistry may be counted toward a major in physics.

Requirements for a minor in physics include the same *lower division* courses as the major and completion of Ph 111 and Ph 152 within the *upper division* minor requirements.

The minimum requirements follow:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Physics . . . . .	10	25	Military Science . . . . .	8	—
Mathematics . . . . .	6-15	6	Modern Language . . . . .	6-12	—
Chemistry . . . . .	10	—	Philosophy . . . . .	3	15
Christian Culture . . . . .	—	8	Psychology . . . . .	3	—
English . . . . .	12	—	Speech . . . . .	2	—
History . . . . .	6	—	Theology . . . . .	8	—

## B.S. (Physics)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 3 Gen. Inorganic.....	5	Ch 4 Gen. Inorganic.....	5
En 3 English Comp.....	3	En 4 English Comp.....	3
Mt 5 Trigonometry.....	3	Mt 50 Calculus, Geom. I....	3
Mt 4 College Algebra.....	3	Pl 34 Logic.....	3
MS 1 First Year Basic....	2	MS 2 First Year Basic....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
<b>Total.....</b>	<b>18</b>	<b>Total.....</b>	<b>18</b>

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Gr 1 Elem.*.....	3	Gr 2 Elem.....	3
Mt 51 Calculus, Geom. II....	3	Mt 52 Calculus, Geom. III....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ph 13 Univ. Physics.....	5	Ph 14 Univ. Physics.....	5
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
<b>Total.....</b>	<b>18</b>	<b>Total.....</b>	<b>18</b>

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Gr 31 Interim.....	3	Gr 32 Interim.....	3
Mt 154 Diff. Equations.....	3	Mt 153 Advanced Calculus... 3	3
Ph 151 Elec., Magnetism....	4	Ph 152 Elec., Magnetism....	4
Pl 100 Metaphysics.....	3	Ph 121 Heat - or	
Ph 111 Theoret. Mechanics... 3	3	Ph 142 Physical Optics.....	3
		Pl 111 Phil. Psychology.....	3
<b>Total.....</b>	<b>18</b>	<b>Total.....</b>	<b>18</b>

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Christian Culture.....	2	Hs 8 Europe since 1500....	3
Ex 1 Prin. of Speech.....	2	Ph Electives.....	6
Hs 7 Europe to 1500.....	3	Ph 199 Senior Comp. Rev....	2
Ph Electives.....	3	Pl 105 Phil. of Nature.....	3
Pl 131 Prin. of Ethics.....	3	Pl 132 Pers., Social Ethics... 3	3
Ps 31 Gen. Psychology.....	3		
<b>Total.....</b>	<b>16</b>	<b>Total.....</b>	<b>17</b>

\*The student is advised to elect Russian because much of the new literature on the subject of physics is in that tongue.

## THE BACHELOR OF SCIENCE (Political Science)

The Department of History and Political Science offers the Bachelor of Science in political science. The program demands seven courses beyond the introductory study of government, Po 1, 2.

Political science aims to produce a deep understanding of the functions and processes of political power, of the place of authority in society, of the use of freedom in human relations. Regard for institutional practice, to conserve freedom and employ sound social forces toward the perfecting of political action, is a prime purpose in this field. The American constitutional system will be given particular attention.

A summary of the program follows:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Political Science.....	6	20	Military Science.....	8	—
Minor.....	6	12	Philosophy.....	3	15
Christian Culture....	—	8	Psychology.....	3	—
English.....	12	—	Science.....	8	—
History.....	6	—	Speech.....	2	—
Mathematics.....	6	—	Theology.....	8	—
Modern Language... 6-12	—	—			

## B.S. (Political Science)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
ML 1 Elem.....	3	ML 2 Elem.....	3
Science.....	4	Science.....	4
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Total.....		Total.....	
	17		17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Po 1 Amer. Govt.: Federal..	3	Po 2 Amer. Govt.: State...	3
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
Ps 31 Psychology.....	3	Pl 34 Logic.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul...	2
MS 31 Second Year Basic...	2	MS 32 Second Year Basic...	2
Total.....		Total.....	
	16		16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Po 121 Comparative Govt....	3	Po 102 Public Adminis.....	3
Po Elective.....	3	Po Elective.....	3
Minor.....	3	Minor.....	3
Pl 100 Metaphysics.....	3	Pl 111 Phil. Psychology....	3
So 125 Marriage.....	2	Christian Culture.....	2
Mt 4 College Algebra		Mt 5 Trigonometry	
or		or	
Mt 1 Interm. Algebra.....	3	Mt 2 Math. of Finance.....	3
Total.....		Total.....	
	17		17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Po Elective.....	3	Po 148 Const. Hist. of U. S...	3
Ex 1 Prin. of Speech.....	2	Po 199 Senior Comp. Rev....	2
Minor.....	3	Minor.....	3
Pl 131 Prin. of Ethics.....	3	Pl 192 Pers., Social Ethics..	3
CC Christian Culture.....	2	Pl 105 Phil. of Nature.....	3
Elective.....	3	Elective.....	3
Total.....		Total.....	
	16		17



## THE BACHELOR OF SCIENCE (Psychology)

Psychology studies the human personality: how we know, how we feel, how we act, and how we adjust ourselves to various situations. The Department of Psychology would both equip the undergraduate with a preparation for better living in society (a knowledge of the potentialities of mind is the best preventive against maladjustment), and train psychologists in the field of guidance and counseling in the academic and in the business world.

Departmental requirements for a major include:

1. The completion of Ps 31 and 32 as an introduction to *upper division* work.
2. Ps 111 (Pl 111).
3. Eighteen credit hours of *upper division* courses in addition to Ps 111 and inclusive of Ps 101, 102, 138, and 199.

Departmental requirements for a minor include:

1. Completion of six credit hours of *lower division* work.
2. Completion of twelve credit hours of *upper division* work in addition to Ps 111.

A summary of program requirements follows:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Psychology . . . . .	6	18	Military Science . . . . .	8	—
Minor . . . . .	6	12	Philosophy . . . . .	3	15
Christian Culture . . . . .	—	8	Theology . . . . .	8	—
English . . . . .	12	—	Science . . . . .	8	—
History . . . . .	6	—	Speech . . . . .	2	—
Mathematics . . . . .	6	—	Elective . . . . .	—	6
Modern Language . . . . .	6-12	—			

## B.S. (Psychology)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 3 English Comp.....	3	En 4 English Comp.....	3
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
Mt 1 Interm. Algebra		Mt 2 Math. of Finance	
or		or	
Mt 4 College Algebra.....	3	Mt 5 Trigonometry.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer..	2
Science*.....	4	Science*.....	4
Total.....	17	Total.....	17

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
ML 1 Elem.....	3	ML 2 Elem.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Ps 31 Gen. Psychology.....	3	Pl 100 Metaphysics.....	3
Th 42 Christ in His Church..	2	Th 43 Christ in the Soul....	2
Pl 34 Logic.....	3	Ps 32 Psych. of Learning....	3
Total.....	16	Total.....	16

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
So 125 Marriage.....	2	Christian Culture.....	2
Minor.....	3	Minor.....	3
ML 31 Interm.....	3	ML 32 Interm.....	3
Ps 111 Phil. Psychology.....	3	Pl 131 Prin. of Ethics.....	3
Ps 101 Experimental.....	3	Ps 102 Adv. Experimental...	3
Ps Elective.....	2	Ps Elective.....	2
Total.....	16	Total.....	16

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ex 1 Prin. of Speech.....	2	Christian Culture.....	2
Elective.....	3	Elective.....	3
Minor.....	3	Minor.....	3
Pl 132 Pers., Social Ethics...	3	Pl 105 Phil. of Nature.....	3
Ps Elective.....	4	Ps Elective.....	2
		Ps 199 Senior Comp. Rev....	2
Total.....	15	Total.....	15

\*Biology 3 and 4 are recommended.

## THE PRE-MEDICAL CURRICULUM

A liberal education offers the best foundation of broad knowledge on which to base medical training. Though liberal education is emphasized, the pre-medical curriculum is arranged so that students may secure studies which are required by medical schools or which contribute to their later professional work.

Minimum standards for admission to a medical school require the applicant to have pursued a course of study equivalent to that prescribed by an accredited high school, and to have successfully completed three years at an accredited college.

Students are rarely accepted if they present only the minimum credit requirements unless their work is of superior quality. In addition certain specified courses are required.

Pre-medical students are advised to plan a four year course. The University proposes the following program:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Biology.....	8	8	Philosophy.....	3	15
Chemistry.....	14	14	Physics.....	8	—
Christian Culture....	—	8	Psychology.....	3	—
English.....	12	—	Science elective....	—	6
German.....	6-12	—	Speech.....	2	—
History.....	6	—	Theology.....	8	—
Mathematics.....	6	—	Thesis.....	—	2
Military Science....	8	—	Elective.....	3	—

## B.S. (Pre-Medical Studies)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 3 Gen. Zoology.....	4	Bl 4 Gen. Zoology.....	4
Ch 3 Gen. Inorganic.....	5	Ch 4 Gen. Inorganic.....	5
En 3 English Comp.....	3	En 4 English Comp.....	3
Mt 4 College Algebra.....	3	Mt 5 Trigonometry.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Th 40 Christ in the Gospels..	2	Th 41 Christ, Our Redeemer.	2
Total.....		Total.....	
	19		19

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 51 Elem. Quan. Analysis.	4	Ex 1 Prin. of Speech.....	2
Hs 7 Europe to 1500.....	3	Hs 8 Europe since 1500....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Ph 3 College Physics.....	4	Ph 4 College Physics.....	4
Pl 34 Logic.....	3	Pl 100 Metaphysics.....	3
Th 42 Christ in His Church..	2	Ps 31 Gen. Psychology.....	3
		Th 48 Christ in the Soul....	2
Total.....		Total.....	
	18		19

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 101 Compar. Anat. Vert... 4	4	Bl 112 Gen., Vert. Embry... 4	4
So 125 Marriage.....	2	Christian Culture.....	2
Ch 101 Organic Chem.....	5	Ch 102 Organic Chem.....	5
Gr 1 Elem.*.....	3	Gr 2 Elem.....	3
Pl 111 Phil. Psychology.....	3	Pl 131 Prin. of Ethics.....	3
Total.....		Total.....	
	17		17

### Senior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Christian Culture.....	2	Ch 121 Elem. Physical.....	4
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
Gr 31 Interm.....	3	Gr 32 Interm.....	3
Pl 132 Pers., Social Ethics... 3	3	Pl 105 Phil. of Nature.....	3
Science.....	3-4	Science.....	3-4
		Thesis.....	2
Total.....		Total.....	
	14-15		18-19

\*The student is advised to elect German as his modern language because of the literature in German on scientific matters.

## PRE-DENTAL CURRICULUM

The Council on Dental Education of the American Dental Association fixes as the minimum basis for admission to an approved dental school the successful completion of two years in an accredited college of liberal arts and sciences. The course must include at least a year's credit in English, in biology, in physics, and in inorganic chemistry, and a semester's credit in organic chemistry. Courses in science should include both class and laboratory instruction. Formal credit in these subjects, except in chemistry or in English, may be waived in the case of exceptional students with three years of college credit or in the case of degree graduates of an accredited college.

The applicant must also have graduated from an accredited four year high school, which requires not less than fifteen units.

Only young men in good physical condition should seek entrance into the dental schools. As a requirement for admission a prospective student must furnish a certificate of health from a physician. This must include a report on a chest x-ray, satisfactory condition of heart, of eyes, and of the motor system.

Since entrance requirements vary, the student should decide early upon the school he wishes to attend and should plan his program to conform to its requirements. Rarely is one who presents only minimum academic preparation accepted unless his work has been of superior quality. Fulfillment of the requirements for the Bachelor's degree is advisable.

A summary of *minimum* requirements follows:

<i>Subject</i>	<i>Sem. Hrs.</i>	<i>Subject</i>	<i>Sem. Hrs.</i>
Biology . . . . .	8	Military Science . . . . .	8
Chemistry . . . . .	20	Philosophy . . . . .	6
English . . . . .	6	Physics . . . . .	8
History . . . . .	6	Theology . . . . .	8
Mathematics . . . . .	6		

## Pre-Dental (Three-Year Course)

### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 3 Gen. Zoology . . . . .	4	Bl 4 Gen. Zoology . . . . .	4
Ch 3 Gen. Inorganic . . . . .	5	Ch 4 Gen. Inorganic . . . . .	5
En 3 English Comp. . . . .	3	En 4 English Comp. . . . .	3
MS 1 First Year Basic . . . . .	2	MS 2 First Year Basic . . . . .	2
Mt 4 College Algebra . . . . .	3	Mt 5 Trigonometry . . . . .	3
Th 40 Christ in the Gospels . . . . .	2	Th 41 Christ, Our Redeemer . . . . .	2
Total . . . . .	19	Total . . . . .	19

### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 51 Elem. Quan. Analysis . . . . .	4	Ch 121 Elem. Physical Chem. . . . .	4
Hs 7 Europe to 1500 . . . . .	3	Hs 8 Europe since 1500 . . . . .	3
MS 31 Second Year Basic . . . . .	2	MS 32 Second Year Basic . . . . .	2
Ph 3 College Physics . . . . .	4	Ph 4 College Physics . . . . .	4
Pl 34 Logic . . . . .	3	Ps 31 Gen. Psychology . . . . .	3
Th 42 Christ in His Church . . . . .	2	Th 43 Christ in the Soul . . . . .	2
Total . . . . .	18	Total . . . . .	18

### Junior Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Bl 101 Comp. Anat. of Vert. . . . .	4	Pl 111 Phil. Psychology . . . . .	3
So 125 Marriage . . . . .	2	Ch 102 Organic . . . . .	5
Ch 101 Organic . . . . .	5	En 32 Studies in Lit. . . . .	3
En 31 Studies in Lit. . . . .	3	Ex 1 Prin. of Speech . . . . .	2
Pl 100 Metaphysics . . . . .	3	Pl 131 Prin. of Ethics . . . . .	3
Total . . . . .	17	So 126 Family . . . . .	2
Total . . . . .	17	Total . . . . .	18

## THE PRE-ENGINEERING PROGRAM

Many engineering colleges require basic preparation before engineering students take up the work of their specialized fields. The Xavier curriculum is designed to cover these usual requirements in mathematics, drawing, physics, chemistry, and English. It is recommended that the student choose his engineering school and course by the end of the freshman year. Then, during the sophomore year, he can elect such courses as English, economics, accounting, statistics, etc., which will fit into the *upper division* program of his chosen school. Such a plan will permit him to make up sophomore technical subjects when he begins his professional training.

### The Pre-Engineering Program

#### Freshman Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Ch 3 Gen. Inorganic.....	5	Ch 4 Gen. Inorganic.....	5
En 3 English Comp.....	3	En 4 English Comp.....	3
MS 1 First Year Basic.....	2	MS 2 First Year Basic.....	2
Mt 5 Trigonometry.....	3	Mt 50 Calculus, Geom. I....	3
Mt 4 College Algebra.....	3	Mt D 2 Descriptive Geom....	3
Mt D 1 Eng. Drawing.....	2	Mt 41 Christ, Our Redeemer..	2
Th 40 Christ in the Gospels..	2		
Total.....	20	Total.....	18

#### Sophomore Year

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
En 31 Studies in Lit.....	3	En 32 Studies in Lit.....	3
MS 31 Second Year Basic....	2	MS 32 Second Year Basic....	2
Mt 51 Calculus, Geom. II...	3	Mt D 4 Adv. Eng. Drawing...	3
Ph 13 Univ. Physics.....	5	Mt 52 Calculus, Geom. III...	3
Pl 34 Logic.....	3	Ph 14 Univ. Physics.....	5
Th 42 Christ in His Church..	2	Ps 31 Gen. Psychology.....	3
		Th 43 Christ in the Soul....	2
Total.....	18	Total.....	21

## THE BACHELOR OF LITERATURE

(For Humanistic Studies at Milford College)

The degree of Bachelor of Literature is conferred on candidates from Milford College whose major and minor have been in the curricular field of classical languages and English, and whose program has included the following subjects and corresponding semester hours:

<i>Subject</i>	<i>Sem. Hrs.</i>		<i>Subject</i>	<i>Sem. Hrs.</i>	
	<i>L.D.</i>	<i>U.D.</i>		<i>L.D.</i>	<i>U.D.</i>
Latin . . . . .	12	18	Modern Language . . .	12	6
Greek . . . . .	12	6	Science or Math. . . . .	6	—
English . . . . .	12	18	Speech . . . . .	4	—
Education . . . . .	3	3	Theology . . . . .	8	—
History . . . . .	6	—	Electives . . . . .	—	12



## Departments of Instruction

The courses of instruction are numbered in accord with a unified plan. *Lower division* courses are numbered 1 to 99. Within the *lower division* the numbers 30 to 99 generally indicate that the course is open to sophomores. *Upper division* courses are numbered from 100



to 199. Graduate courses are numbered from 200 to 299. Double numbers indicate that the first semester course is prerequisite to the second semester course *and that both must be satisfactorily completed to obtain credit for either course.* Any exceptions will be stated in course descriptions. In most departments the courses are grouped in decades according to sequence, content, or some other plan of sub-division.

### Key Symbols

The following key letters are used to indicate the different departments of instruction:

Accounting . . . . . Ac	History . . . . . Hs
Biology . . . . . Bl	Latin . . . . . Lt
Business Administration . . . BA	Mathematics . . . . . Mt
Chemistry . . . . . Ch	Military Science . . . . . MS
Christian Culture . . . . . CC	Modern Language . . . . . ML
Economics . . . . . Ec	Philosophy . . . . . Pl
Education . . . . . Ed	Physics . . . . . Ph
English . . . . . En	Political Science . . . . . Po
Fine Arts . . . . . FA	Psychology . . . . . Ps
French . . . . . Fr	Russian . . . . . Ru
Geography . . . . . Gg	Sociology . . . . . So
German . . . . . Gr	Spanish . . . . . Sp
Greek . . . . . Gk	Speech Arts . . . . . Ex
Theology . . . . . Th	

## Accounting (Ac)

*Staff:* MR. G. SELZER, *chairman*; MR. BEHLER, MR. MALY, MR. SMITH, MR. TILTON, MR. WILZ.

*Assisted by:* MR. FINUCAN, MR. LEISNER, MR. SCHWEIZER, MR. L. SELZER.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

51. PRINCIPLES OF ACCOUNTING. Three credit hours. Elementary principles and procedures supplemented with practical problems and practice sets.
52. PRINCIPLES OF ACCOUNTING. Three credit hours. A continuation of Ac 51 which is also prerequisite.

#### *Upper Division Courses*

151. INTERMEDIATE ACCOUNTING. Three credit hours. A broad background of theory coordinated with practical problems. Prerequisite: Ac 52.
152. INTERMEDIATE ACCOUNTING. Three credit hours. A continuation of Ac 151 which is also prerequisite.
153. ADVANCED ACCOUNTING PROBLEMS. Three credit hours. Advanced study in accounting theory and related problems applicable to partnership, special sales procedures, insurance, and fiducaries. Prerequisite: Ac 152.
154. ADVANCED ACCOUNTING PROBLEMS. Three credit hours. Accounting elective. A continuation of Ac 153 with emphasis on parent company and subsidiary accounting. Prerequisite: Ac 152.
155. INDUSTRIAL ACCOUNTING. Three credit hours. Study of elements involved in industrial production with special emphasis on costs and reports. Prerequisite: Ac 152.
156. INDUSTRIAL ACCOUNTING. Three credit hours. A continuation of Ac 155 which is also prerequisite.
157. TAXATION. Three credit hours. Intensive study of tax laws in relation to their underlying principles. Prerequisite: Ac 52.
158. ADVANCED TAXATION. Three credit hours. Prerequisite: Ac 157.

160. SURVEY OF ACCOUNTING SYSTEMS. Two credit hours. Open to seniors or by permission of instructor. Prerequisite: Ac 152.
161. MANAGERIAL ACCOUNTING. Two or three credit hours. Sources of data and statistics concerned with forecasting and preparation of business budgets.
162. ANALYSIS OF FINANCIAL STATEMENTS. Three credit hours. A study of the significance, development and technique of financial statement analyses of business enterprises. Prerequisite: Ac 52.
163. AUDITING PRINCIPLES. Three credit hours. A comprehensive study of the fundamental principles of auditing. Prerequisite: Ac 155.
164. ADVANCED AUDITING PRINCIPLES. Two or three credit hours. Prerequisite: Ac 163.
165. C.P.A. REVIEW. Three credit hours. A thorough review of theory, auditing, practical accounting and business law based upon recent examinations by various State Boards and the American Institute of Accountants. Prerequisite: Previous courses or practical experience in accounting. Given at Evening College.
166. C.P.A. REVIEW. Three credit hours. A continuation of Ac 165. Given at Evening College.
173. MANAGERIAL ASPECTS OF DATA PROCESSING. Three credit hours. The objective of this course is to provide an understanding of electronic data processing systems in business and their effect on management organization and control. The general structure and logic of electronic computers are explained, along with "common language" and punched-card equipment. The phases of planning for and evaluating the feasibility of EDP systems are also covered.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in accounting.

## Biology (B1)

Staff: FR. PETERS, *chairman*; MR. CUSICK, DR. TAFURI.

B1 1 and 2 cannot be taken for pre-medical or pre-dental requirements.

B1 3 and 4 are required as an introduction to all upper division courses. In exceptional cases, B1 1 and 2 may be considered as partial requisite fulfillment.

Bl 184, 185, 186, 187 are especially designed for students of education only who require biology as part of their training for high school teaching.

A major consists of 8 credit hours of *lower division* work; 18 credit hours of *upper division* work inclusive of Bl 101 and 112. In addition, a senior thesis, Bl 199, must be completed.

A minor consists of 8 credit hours of *lower division* work and 16 credit hours of *upper division* work.

## UNDERGRADUATE DIVISION

### *Lower Division Courses*

1. **GENERAL BIOLOGY I.** Four credit hours. A study of fundamental principles of biological science emphasizing the morphology and physiology of organs and systems in a typical vertebrate with special reference to the biology of man. Three lectures and two hours of laboratory.
2. **GENERAL BIOLOGY II.** A survey of the morphology, physiology, life history and economic importance of representative plants and invertebrate animals together with discussions of heredity, embryology and evolution. Three lectures and two hours of laboratory.
3. **GENERAL ZOOLOGY I.** Four credit hours. An introduction to the basic principles of biology with emphasis on the chordates and the anatomy and physiology of several representative vertebrates. Two lectures and four hours of laboratory.
4. **GENERAL ZOOLOGY II.** Four credit hours. A continuation of Bl 3 and a systematic survey of the morphology, physiology, classification, life history, development and interrelationship of the representative animals of the invertebrate phyla inclusive of heredity, evolution, ecology, conservation and related topics. Two lectures and four hours of laboratory.
6. **BIOLOGY SURVEY.** Two credit hours. Cultural interpretations of the biological sciences. Given at Milford College.
9. **HUMAN ANATOMY AND PHYSIOLOGY.** Three credit hours. A study of the organs and systems of man with emphasis on myology and the physiology of exercise. This course is for students majoring in physical education. Two lectures and two hours of laboratory.
10. **HUMAN ANATOMY AND PHYSIOLOGY.** Three credit hours. A continuation of Bl 9. Two lectures and two hours of laboratory. Prerequisite: Bl 9.

*Upper Division Courses*

101. **COMPARATIVE ANATOMY OF THE VERTEBRATES.** Four credit hours. A study of the comparative morphology of the organs and systems of chordates. Two lectures and four hours of laboratory. Special materials fee: \$12. Prerequisite: Bl 3, 4.
105. **GENERAL BOTANY.** Four credit hours. A study of the morphology, physiology, classification and life cycles of representatives of the major divisions of the plant kingdom. Seed plants are stressed. Two lectures and four hours of laboratory.
112. **GENERAL AND VERTEBRATE EMBRYOLOGY.** Four credit hours. A study of the development of vertebrates, including gametogenesis, fertilization, and early embryology. Organogenesis of the chick and pig is emphasized in the laboratory. Two lectures and four hours of laboratory. Prerequisite: Bl 3, 4.
117. **BIOLOGICAL INVESTIGATION, INSTRUMENTATION AND LAWS.** Four credit hours. Scientific method in basic biological research; techniques of observation, measurement, and recording of living phenomena; design of experiments and biometry; interpretation and presentation of data; biodynamic laws and their application to plants and animals. Two lectures, one quiz period and four hours of laboratory. Prerequisite: Bl 3, 4, and 101.
121. **THE BIOLOGICAL BASIS OF ANIMAL BEHAVIOR.** Four credit hours. A comparative study of the physiology and morphology of the nervous system and sensory receptors, with special emphasis on the adaptation of animal life to environmental changes. Two lectures and four hours of laboratory. Prerequisites: Bl 1 and 2, or Bl 3 and 4. (Ps 121)
122. **HEREDITY AND DEVELOPMENT.** Four credit hours. A study of the physical basis of heredity and its expression in the development of the individual, and the modification of this expression by environmental factors. Two lectures and four hours of laboratory. Prerequisites: Bl 1 and 2, or 3 and 4.
131. **GENERAL BACTERIOLOGY.** Four credit hours. A study of the morphology and physiology of bacteria and related groups, together with laboratory exercises in applied microbiology. Two lectures and four hours of laboratory.
141. **COMPARATIVE VERTEBRATE HISTOLOGY.** Four credit hours. A comparative study of the microscopic structure and function of organs and systems among vertebrates. Two lectures and four hours of laboratory.

142. **BIOLOGY OF CELLS AND MICROORGANISMS.** Four credit hours. A study of basic life processes of plants and animals, both unicellular and multicellular, as revealed by the microscope. Two lectures, one quiz period and four hours of laboratory.
152. **BIOLOGY OF INHERITANCE.** Two credit hours. A study of the principles of heredity and the operation of hereditary factors in the development of individual traits. Two lectures: no laboratory.
161. **GENERAL PHYSIOLOGY.** Four credit hours. A study of the fundamental behavior of living cells and tissues and an introduction to the physiology of mammalian systems. Two lectures and four hours of laboratory. Prerequisite: BI 101.
180. **HISTORY OF BIOLOGY.** Two credit hours. A study of the historical development of the biological sciences. Two lectures: no laboratory.
184. **ADVANCED BIOLOGY OF MAN.** Three credit hours. A study of the anatomy, physiology and development of the human body. Lectures and laboratory.
185. **ADVANCED ZOOLOGY.** Three credit hours. Consideration of the classification, morphology, physiology, ecology, embryology and economic importance of animals. Lectures and laboratory.
186. **ADVANCED BOTANY.** Three credit hours. Interest is directed toward the taxonomy, morphology, physiology, ecology and economic importance of representative members of the plant kingdom. Lectures and laboratory.
187. **ADVANCED BIOLOGICAL PRINCIPLES.** Three or four credit hours. A course in which biological principles rather than particular groups of animals or plants are stressed. Scientific method, biological research, the nature of life, evolution, heredity and related subjects emphasized. Two lectures and laboratory.
- 192a-g. **SPECIAL PROBLEMS IN BIOLOGY.** Two or four credit hours. This course is designed to give the student an opportunity to engage in the study of some specialized field of biology. The five offerings are:
- a. Special Problems in Zoology
  - b. Special Problems in Botany
  - c. Special Problems in Physiology
  - d. Special Problems in Anatomy

- e. Special Problems in Heredity
- f. Special Problems in Embryology
- g. Special Problems in Histology

A charge will be made for materials used in the laboratory.

Prerequisite: Permission of the Chairman of the Department, and Bl 3, 4, and 101.

194. THEORY OF EVOLUTION. Two credit hours. A study of organic evolution. Two lectures: no laboratory. Prerequisite: Bl 1, 2 or 3, 4.
199. SENIOR THESIS. Two credit hours. Undergraduate research in one of the fields of biology selected by the student. Prerequisite: Senior standing, consent of the instructor directing the course, and approval of the Chairman of the Department. A charge will be made for materials used in the laboratory.

### Business Administration (BA)

*Staff:* DR. HAILSTONES, *director*; DR. HARRIMAN, *chairman, undergraduate*; FR. BESSE, MR. BROWN, DR. BRYAN, MR. DONNELLY, MR. FATORA, DR. HAYES, DR. LINK, MR. B. MARTIN, MR. J. MARTIN, MR. MCINTYRE, DR. SCHULTZ.

*Assisted by:* MR. BOFF, MR. BRETT, MR. BROWN, MR. BURRIDGE, MR. CENTNER, MR. DOYLE, MR. FARRELL, MR. FLAMM, MR. GRATTON, MR. KEELING, MR. KIMBALL, MR. KLEKAMP, MR. McMULLIN, MR. MEUTHING, MR. MURPHY, DR. PARKANY, MR. ROTHSTEIN, MR. SCHLEF, MR. SCHUCK, MR. SETTELMAYER, MR. VOLCK, MR. WILLINGER.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

21. INTRODUCTION TO BUSINESS. Three credit hours. The purpose of this course is to familiarize the business student with the structure and operation of the various types of business enterprises.

#### *Upper Division Courses*

111. TRANSPORTATION: TRAFFIC MANAGEMENT. Three credit hours. The American transportation system; freight traffic association territories; classification of freight; principles of freight

- rates and tariffs; shipping documents and their application; special freight services; study in freight claims. Given at Evening College.
112. **TRANSPORTATION: TRAFFIC MANAGEMENT.** Three credit hours. A continuation of BA 111. Given at Evening College.
  113. **RATES AND TARIFFS, I.** Three credit hours. Construction and filing of tariffs; freight rates and tariffs; terminal facilities and switching; demurrage; storage; payment of transportation charges; warehousing and distribution; materials handling; packaging. Prerequisite: BA 111-112. Students with sufficient traffic background or practical experience will be permitted to register without prerequisites. Given at Evening College.
  114. **RATES AND TARIFF, I.** Three credit hours. A continuation of BA 113. Given at Evening College.
  115. **RATES AND TARIFF, II.** Three credit hours. Advanced studies of rates and tariff including: through routes and rates; milling in transit rates; technical tariff and rate interpretation; overcharge, loss and damage; import and export practice; classification and rail committee procedure. Prerequisite: BA 113-114. Students with sufficient traffic background or practical experience will be permitted to register without prerequisites. Given at Evening College.
  116. **RATES AND TARIFF, II.** Three credit hours. A continuation of BA 115. Given at Evening College.
  117. **INTERSTATE COMMERCE LAW.** Three credit hours. Interstate Commerce Act and related acts and cases. Practice and procedure before the state regulatory commissions and the Interstate Commerce Commission. Prerequisites: BA 115-116. Students with sufficient traffic background or practical experience will be permitted to register without prerequisites. Given at Evening College.
  118. **INTERSTATE COMMERCE LAW.** Three credit hours. A continuation of BA 117. Given at Evening College.
  123. **BUSINESS STATISTICS.** Three credit hours. A study of the manner of presentation of specific and general business reports for graphic determination of economic significance. A study of mathematical tools as used in business and industry including mode, mean, median and coefficient of correlation.



125. **ELEMENTARY INDUSTRIAL STATISTICS.** Three credit hours. The purpose of this course is an understanding of the fundamental bases of statistics. Such topics as: presentation of data, mean and standard deviation, probability, the binomial, the Poisson, the normal, and the sample mean distributions, are studied. Problems in the course are related to industry. Given at Evening College.
126. **QUALITY CONTROL.** Three credit hours. This course considers the simpler applications of the previous course to industrial processes. Such matter as quality-control charts and their characteristic curves are studied in detail. Acceptance sampling by attributes or variables, together with sequential analysis, is also discussed. Given at Evening College.
127. **PUBLICITY.** Two credit hours. A study of the basic tools and techniques used by the publicist and an analysis of major media used in publicity work. Given at Evening College.
128. **PUBLIC RELATIONS.** Two credit hours. Development, role and function of public relations. Covers methods for building public confidence, stockholders, industry, employee, community relations. Given at Evening College.
131. **PRINCIPLES OF MARKETING.** Three credit hours. A study of the elements of distribution in a capitalistic economy including marketing functions; wholesaling; retailing; financing; transportation; the various types of retail institutions.
132. **PROBLEMS OF MARKETING.** Three credit hours. The problems include the spread between production costs and costs to consumers; types of wholesaling and retailing; survey of sales projects; finance of distribution; reduction of costs.
135. **MARKET RESEARCH AND ANALYSIS.** Three credit hours. A study of the tools used and the techniques of research and evaluation of markets for goods. Prerequisite: BA 131.
136. **PRINCIPLES OF RETAILING.** Three credit hours. The relationship of retailing to the marketing structure; types of retailing. Given at Evening College.
137. **PRINCIPLES OF WHOLESALING.** Three credit hours. The relationship of wholesaling to the marketing structure; kinds of wholesaling; types of middlemen; internal organization of wholesaling firms and their relationships to the commodity field. Given at Evening College.

138. **PRINCIPLES OF PURCHASING.** Three credit hours. The purpose of this course is to give the student a thorough grounding in the principles and practices of purchasing. Emphasis is placed on the techniques involved in making decisions on the right quality and quantity at the right prices, price policies, sources of supplies, and standards of performance.
140. **PRINCIPLES OF ADVERTISING.** Three credit hours. Advertising needed by management; basis for judgment of what advertising is likely to accomplish under differing combinations of circumstances. Prerequisite: BA 131.
141. **PRINCIPLES OF ADVERTISING.** Two credit hours. A basic course designed for newcomers to the advertising profession; fundamental principles governing types of advertising. Given at Evening College.
142. **PRINCIPLES OF ADVERTISING.** Two credit hours. A continuation of BA 141. Given at Evening College.
145. **PRINCIPLES OF SALESMANSHIP.** Two credit hours. Emphasis upon necessity of adequate sales preparation, correct procedure in approach, proper presentation and closing. Given at Evening College.
146. **PRINCIPLES OF SALESMANSHIP.** Two credit hours. A continuation of BA 145. Given at Evening College.
147. **SALES MANAGEMENT.** Three credit hours. Emphasis on methods of salesmanship in the field of specialty goods; variations of intensity of application of these techniques in selling to wholesalers, retailers and consumers. Prerequisite: BA 131.
157. **INVESTMENTS.** Three credit hours. Survey of the economic bases of investment practice; techniques of security analysis and portfolio management. Prerequisites: Ec 33, 34.
161. **BUSINESS LAW I.** Three credit hours. A general introduction to American business law. Contracts: essential, form, legality and enforcement. Property. Negotiable instruments.
162. **BUSINESS LAW II.** Three credit hours. General review of the introduction to business law. Creation, powers, termination, liabilities of principal and agent. Partnerships. Corporations. Recommended prerequisite: BA 161.
165. **PERSONNEL MANAGEMENT.** Three credit hours. A study of principles and practices in the administration of human rela-

tions in the industrial and commercial world. Emphasis is placed upon the use of scientific techniques and devices in the development of a well-rounded personnel program.

166. **PERSONNEL PROBLEMS.** Three credit hours. The case system approach to human relations problems in industry. A study of how problems are discovered and the scope limitation of problems. Prerequisite: BA 165.
169. **INDUSTRIAL PSYCHOLOGY.** Two or three credit hours. A review of the principles of sound psychological procedure as applied to personnel in industry and commerce. (Ps 169). Prerequisite: Ps 81 and BA 165.
170. **BUSINESS ORGANIZATION AND MANAGEMENT.** Three credit hours. A study of the basic principles and theories of managerial organization; development of theories of organization; organization structure; types of organization, managerial control techniques; functions of the executive. Prerequisite: Ec 33, 34.
173. **MANAGERIAL ASPECTS OF DATA PROCESSING.** Three credit hours. The objective of this course is to provide an understanding of electronic data processing systems in business and their effect on management organization and control. The general structure and logic of electronic computers are explained, along with "common language" and punched-card equipment. The phases of planning for and evaluating the feasibility of EDP systems are also covered.
175. **PRODUCTION MANAGEMENT.** Three credit hours. A study of plant and factory operation and management; job analysis; time study; problems in production operations, distribution, transportation and purchasing of materials, parts and equipment; factory cost analysis.
177. **TIME AND MOTION STUDY.** Two credit hours. An introduction to time and motion study; principles; scope; fundamental hand motions; work places; standardization; analysis charts; relation to incentives. Given at Evening College.
178. **TIME AND MOTION STUDY.** Two credit hours. A continuation of BA 177. Given at Evening College.
190. **BUSINESS ADMINISTRATION PROBLEMS.** Three credit hours. A case study approach is involved. Material is provided to afford opportunities for students to develop their analytical ability and decision-making skill and to utilize their imagina-

tion in devising feasible programs of action. Some descriptive material is presented to make case studies meaningful. Recommended only for seniors.

197. TUTORIAL COURSE. Two or three credit hours. Special reading and study for advanced students.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in general business. Prerequisites: Senior standing. Concurrent completion of major requirements.

Other courses acceptable as electives in the general business program:

- Ec 101 HISTORY OF THE LABOR MOVEMENT
- Ec 103 LABOR ECONOMICS
- Ec 104 LABOR RELATIONS
- Ec 105 LABOR RELATIONS AND COLLECTIVE BARGAINING
- Ec 106 LABOR RELATIONS AND COLLECTIVE BARGAINING
- Ec 107 LABOR LEGISLATION
- Ec 110 ECONOMICS OF TRANSPORTATION
- Ec 155 CORPORATION FINANCE
- Ec 156 PUBLIC FINANCE AND TAXATION
- Ec 158 BUSINESS CYCLE ANALYSIS

## GRADUATE DIVISION

Students selecting courses for the degree of Master of Business Administration must include the four survey courses—BA 201, 202, 203 and 204—in their programs. They will include appropriate courses from the offerings of the undergraduate division numbered 100 or above. As a climax to their work they will select a 200 seminar course dealing with practical problems.

201. ECONOMICS OF BUSINESS. Three credit hours. Introduction to major areas of economics judged most useful to the business executive. Functions of the economic system; national income; business cycles, forecasting, government economics. Keynesian economic analysis.
202. RESEARCH IN BUSINESS. Three credit hours. Understanding and skills necessary to the intelligent use of research in business. In this course two credit hours are devoted to

- research techniques and procedures. The remaining credit hour is awarded on completion of an actual research paper. A separate grade is given for each phase of the course.
203. **MANAGERIAL ACCOUNTING.** Three credit hours. The contribution of accounting to efficient business administration. Basic concepts; budgeting; the operation of an accounting system; cost analysis; cost-standards; financial statements.
  204. **ADMINISTRATIVE OPERATION.** Three credit hours. Techniques of planning, organizing, and control in business. Environmental factors; dynamics of human relations; functions; structure.
  210. **APPLIED ECONOMIC ANALYSIS.** Three credit hours. Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition and their effect on individual firms and industries. Case study method of instruction used.
  215. **BUSINESS AND PUBLIC POLICY.** Three credit hours.
  220. **EXECUTIVE PRACTICES.** Three credit hours. Presentation of a fundamental statement of business objectives, policies and general methods that govern the solution of basic business problems. Case study method of instruction used.
  240. **MARKETING AND SALES ANALYSIS.** Three credit hours. Market research as a tool of management. Application of marketing research and techniques as a means of solving marketing problems. Case study method of instruction used.
  241. **LOCATION OF BUSINESS AND INDUSTRIAL ACTIVITY.** Three credit hours. A study of the factors that influence the location of productive facilities, and the marketing of the finished product. Interrelationship of source of supply, location of productive facilities, and the market area.
  242. **MARKETING RESEARCH.** Three credit hours. Methods and techniques of marketing research; its use as a tool of management; cases in marketing research.
  243. **INDUSTRIAL MARKETING.** Three credit hours.
  250. **PROBLEMS IN BUSINESS FINANCE.** Three credit hours. In this course the principles learned in Corporation Finance are utilized. Financing current operations, policies, promotion, expansion, combination and selected comprehensive problems involving financial analysis and planning of capital structures. Case study method of instruction used.

254. BUDGETING PROCEDURES. Three credit hours. Preparation of budgets and managerial use of business budgets. Budget allocation for sales, production, materials, labor, and overhead. Budget reports.
260. PROBLEMS OF LABOR. Three credit hours. An analysis of labor-management problems through the use of the "Incident Process."
262. ADVANCED PERSONNEL MANAGEMENT. Three credit hours. A case method approach to complex personnel problems at the management level.
270. INTRODUCTION TO OPERATIONS RESEARCH. Three credit hours.
274. INDUSTRIAL PROCUREMENT AND CONTROL. Three credit hours. A case method approach to the procedures and problems involved in industrial procurement, purchasing and inventory control.
277. WORK SIMPLIFICATION. Three credit hours.
280. OFFICE MANAGEMENT. Three credit hours. Office management function; office planning; work measurement and standards; work simplification; office mechanism; and office supervision. This course is a combination lecture and case method approach to the study of office management.
282. SMALL BUSINESS OPERATION. Three credit hours. This course is designed primarily for students who work in small businesses or own businesses. Organization, location, management, finance, production, and marketing problems are studied. The course combines the lecture and case method of study.
295. INDIVIDUAL READINGS AND RESEARCH. Two or three credit hours. Open to especially qualified students with the consent of the Chairman of the Department.
299. SEMINAR: IN BUSINESS PROBLEMS. Three credit hours.

#### CONCENTRATION IN HOSPITAL ADMINISTRATION

The following courses, numbered from BA 225 to BA 239, are offered cyclically over the fall, spring, and summer sessions.

225. HOSPITAL ORGANIZATION AND MANAGEMENT. Three credit hours.
226. WORKSHOP: HOSPITAL ORGANIZATION AND MANAGEMENT. Three credit hours.

227. HOSPITAL FINANCIAL MANAGEMENT. Three credit hours.
228. WORKSHOP: HOSPITAL FINANCIAL MANAGEMENT. Three credit hours.
229. HOSPITAL PERSONNEL ADMINISTRATION. Three credit hours.
230. WORKSHOP: HOSPITAL PERSONNEL ADMINISTRATION. Three credit hours.
231. ORIENTATION TO CLINICAL MEDICINE. Three credit hours.
232. WORKSHOP: ORIENTATION TO CLINICAL MEDICINE. Three credit hours.
233. PROCUREMENT AND PURCHASING IN HOSPITALS. Three credit hours.
234. WORKSHOP: PROCUREMENT AND PURCHASING IN HOSPITALS. Three credit hours.
235. LEGAL ASPECTS OF HOSPITAL ADMINISTRATION. Three credit hours.
236. WORKSHOP: LEGAL ASPECTS OF HOSPITAL ADMINISTRATION. Three credit hours.
239. HOSPITAL ADMINISTRATION SEMINAR. Three credit hours.

### Chemistry (Ch)

*Staff:* FR. MILLER, *chairman*; DR. DUBE, DR. GARASCIA, DR. JOHNSON, DR. KLINGENBERG.

*Assisted by:* MR. BURRELL, MR. JUTZE, DR. LOHMAN, DR. NOBIS.

*Graduate Fellows:* MR. BRAKE, MR. BUDE, MR. DUSABLON, MR. HACKMAN, MR. HOGAN, MR. JOHNSON, MR. JOSEPHIC, MR. KAUFFMAN, MR. PURCELL, MR. REED, MR. ROBBINS, MR. SCHARE.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

1. INTRODUCTION TO CHEMISTRY. Four credit hours. A terminal course covering all branches of chemistry and stressing an understanding of chemistry as a science and its influence on the history of man. Three lectures and two hours of laboratory a week.

2. INTRODUCTION TO CHEMISTRY. Four credit hours. Lecture and laboratory. A continuation of Ch. 1.
3. GENERAL INORGANIC CHEMISTRY. Five credit hours. Lectures and demonstrations combined with discussion of problems and laboratory work. Three lectures and six hours of laboratory per week.
4. GENERAL INORGANIC CHEMISTRY. Five credit hours. A continuation of Ch 3. The laboratory work includes the equivalent of Ch 31. Three lectures and six hours of laboratory per week.
31. QUALITATIVE ANALYSIS. Three credit hours. Semi-micro techniques applied to qualitative identification of the common metal ions and acid radicals. Theory and practice. One lecture and six hours of laboratory work per week.
51. QUANTITATIVE INORGANIC ANALYSIS I. Four credit hours. Theory and practice of analytical chemistry. Three lectures and six hours of laboratory per week.

*Upper Division Courses*

101. ORGANIC CHEMISTRY. Five credit hours. An introductory course treating the structure, preparation, reactions, and properties of carbon compounds. Three lectures and six hours of laboratory work per week. Prerequisites: Ch 3 and 4.
102. ORGANIC CHEMISTRY. Five credit hours. A continuation of Ch 101 which is also prerequisite.
106. QUALITATIVE ORGANIC CHEMISTRY. Three credit hours. A systematic identification of pure organic compounds and simple mixtures. Two lectures and six hours of laboratory work per week. Prerequisite: Ch 102.
107. TYPE REACTIONS OF ORGANIC CHEMISTRY. Three credit hours. A detailed study of the important reactions of organic chemistry. Three lectures per week. Prerequisite: Ch 102.
116. QUANTITATIVE INORGANIC ANALYSIS II. Four credit hours. A continuation and extension of Ch 51. Three lectures and six hours of laboratory work per week. Prerequisite: Ch 51.
121. ELEMENTARY PHYSICAL CHEMISTRY. Four credit hours. A course intended primarily for pre-medical students who have not had Mt 52. Three lectures and one four-hour laboratory period per week. Prerequisites: Ch 51.



125. PHYSICAL CHEMISTRY. Four credit hours. Three lectures and four hours of laboratory work per week. Prerequisites: Ch 51, 102, Mt 52, Ph 3 and 4.
126. PHYSICAL CHEMISTRY. Four credit hours. A continuation of Ch 125. Three lectures and four hours of laboratory work.
127. CHEMICAL CALCULATIONS. Two credit hours. A lecture course devoted to the further development of problems suggested by other courses. Prerequisite: Ch 116.
151. INORGANIC PREPARATIONS. One lecture, individual consultation, and three hours of laboratory work per credit hour. Laboratory preparation of various classes of compounds intended to develop technique and to illustrate the methods employed in the preparation of pure inorganic compounds. Prerequisite: Ch 51.
- 152a. ORGANIC PREPARATIONS. One, two or three credit hours. Lecture and laboratory work dealing with the fundamental techniques and manipulations of organic synthesis. Both theory and practice of operations such as distillation, melting point determination, recrystallization, etc., are reviewed. The first credit hour involves one lecture per week with no laboratory work. Additional credit involves three hours of laboratory work per week per credit hour. Prerequisites: Ch 51, 101, 102.
- 152b. ORGANIC PREPARATIONS. One, two or three credit hours. A continuation of Ch 152a.
160. BIOCHEMISTRY LECTURE. Three credit hours. Biochemistry of carbohydrates, lipids and proteins discussed at length. Certain special topics inclusive of vitamins, hormones, enzymes and medicinal chemistry considered. Three lectures per week.
161. BIOCHEMISTRY LABORATORY. One or two credit hours. Experiments designed to illustrate biochemical principles. Three hours of laboratory per week per credit hour.
190. CHEMICAL LITERATURE. Two credit hours. An introduction to the use of chemical literature; discussion of minor chemical problems; required readings and reports. Two lectures per week. Prerequisite: junior standing.

192 a-d. PROBLEMS IN CHEMISTRY. Credit to be arranged. Conferences and direction in library and laboratory work. The four offerings are:

- a. Problems in Inorganic Chemistry
- b. Problems in Organic Chemistry
- c. Problems in Physical Chemistry
- d. Problems in Analytical Chemistry

A charge will be made for materials used in the laboratory. Prerequisite: permission of the Chairman of the Department.

199. SENIOR THESIS. Two credit hours. A course of directed reading and undergraduate research required of all majors in their senior year. A charge will be made for materials and apparatus used in this work.

### GRADUATE DIVISION

The minimum requirements for a Master of Science degree in chemistry include:

1. Completion of 24 semester hours of course work inclusive of Ch 200, 207, 208, 215, 216, 225, 226, 253, and 254.
2. Master's thesis, Ch 299, constituting 6 semester hours of research.

#### *Graduate Courses*

200. CHEMISTRY SEMINAR. No credit. Critical discussion of and progress reports on theses and special topics by graduate students and staff members. Required for at least two semesters of all students majoring in chemistry. Prerequisite: graduate standing.
206. ADVANCED QUALITATIVE ORGANIC ANALYSIS. One or two credit hours. A review and extension of organic chemical reactions as applied to identification of organic compounds. Lecture and laboratory.
207. ADVANCED ORGANIC CHEMISTRY. Two credit hours. Lectures, library assignments, reports and conferences. Two lectures per week. Prerequisites: Ch 107 or equivalent.
208. ADVANCED ORGANIC CHEMISTRY. Two credit hours. A continuation of Ch 207.
212. HETEROCYCLIC ORGANIC CHEMISTRY. Two credit hours. A lecture course on the application of fundamental organic reactions as applied to the heterocyclic organic molecules. Two lectures per week. Prerequisite: Ch 102.

215. **ADVANCED QUANTITATIVE INORGANIC ANALYSIS.** Two credit hours. Comprehensive study of the theory and practice of analytical chemistry. Two lectures per week.
216. **INSTRUMENTAL ANALYSIS.** Two credit hours. Lecture-laboratory course dealing with modern methods of inorganic analysis. Six hours of lecture-laboratory per week.
218. **QUANTITATIVE ORGANIC ANALYSIS.** Two credit hours. Analysis of organic compounds. Six hours of lecture-laboratory per week.
225. **ADVANCED PHYSICAL CHEMISTRY.** Two credit hours. The more important phases of theoretical and physical chemistry are rigidly developed from the viewpoint of thermodynamics. Prerequisites: Ch 125 and 126.
226. **ADVANCED PHYSICAL CHEMISTRY.** Two credit hours. A continuation of Ch 225.
230. **PHYSICO-CHEMICAL MEASUREMENTS.** Two credit hours. A laboratory course in the application of physical measurements to the solution of typical research problems. Prerequisites: Ch 125 and 126. May be taken as laboratory to Ch 225 and 226.
235. **PHYSICAL ORGANIC CHEMISTRY.** Two credit hours. A study of mechanisms and rates of organic reactions. Two lectures per week.
245. **THE CHEMICAL BOND.** Two credit hours. An introduction to the quantum theory of valence. Prerequisites: Ch 125, 126, and Mt 52.
252. **ADVANCED ORGANIC PREPARATIONS.** One to three credit hours. One lecture, individual consultation, and three hours of laboratory work per week per credit hour. A laboratory course.
253. **ADVANCED INORGANIC CHEMISTRY.** Two credit hours. A systematic presentation of modern developments in inorganic chemistry. Theoretical and descriptive. Two lectures per week.
254. **ADVANCED INORGANIC CHEMISTRY.** Two credit hours. A continuation of Ch 253. A lecture course.
260. **ADVANCED BIOCHEMISTRY.** Two credit hours. A review and extension of fundamental biochemistry. Two lectures per week supplemented by library assignments.

270. **INDUSTRIAL CHEMISTRY.** Two credit hours. A detailed treatment of important industrial processes. Assignments. Two lectures per week.
- 280 a-d. **SPECIAL TOPICS.** Two credit hours. Selections from the four major fields of chemistry. Varied topics representative of important phases of chemistry not treated in regular course work. The nature of the course material will be indicated by descriptive course titles, e.g., **POLYMER CHEMISTRY** or **ORGANOMETALLICS**, but the same course number will be retained.
285. **MODERN CHEMISTRY.** Lecture only, four credit hours. Lecture and workshop, six credit hours. Principles and theories of chemistry with emphasis on modern concepts, ideas, and data. Modern Chemistry is intended primarily for teachers of high school chemistry under arrangement with the National Science Foundation. The workshop involves group discussion, laboratory projects, readings, field trips, etc. Registration by permission only.
- 299 a-d. **MASTER'S THESIS.** Six credit hours. The four offerings are:
- a. Master's Thesis in Inorganic Chemistry
  - b. Master's Thesis in Organic Chemistry
  - c. Master's Thesis in Physical Chemistry
  - d. Master's Thesis in Analytical Chemistry
- A charge will be made for materials and apparatus used in this work. Laboratory offerings.

## Classical Languages

*Staff:* FR. HETHERINGTON, *chairman*; FR. CINCOSKI, FR. DUNNE, FR. FELTEN, FR. FOOTE, DR. HARKINS, DR. HARPER, FR. HARTMANN, MR. HOWARD, FR. R. O'BRIEN.

### UNDERGRADUATE DIVISION

#### Greek (Gk)

##### *Lower Division Courses*

- 1, 2. **ELEMENTARY GREEK.** Six credit hours. Two semesters.
- 5, 6. **INTRODUCTION TO GREEK LITERATURE.** Four or six credit hours. Two semesters.
7. **XENOPHON.** Three or four credit hours.

8. ST. LUKE. Two credit hours.
11. HOMER. Three credit hours. Readings from *The Iliad*.
12. HERODOTUS: SELECTED READINGS. Three credit hours.
17. LYSIAS: SELECTED READINGS. Three or four credit hours.
18. HOMER. Three credit hours. Selected portions of *The Odyssey*.
21. PLATO. Three or four credit hours. *The Apology* and other selections.
23. GREEK PROSE COMPOSITION, I. Two or four credit hours.
24. GREEK PROSE COMPOSITION, II. Two or four credit hours.

#### *Upper Division Courses*

*Open to Advanced Undergraduates and to Graduates*

100. HISTORY OF ANCIENT GREECE. Three credit hours.
103. DEMOSTHENES: THE CROWN. Three or four credit hours.
107. XENOPHON: THE ANABASIS. Three credit hours. Given at Milford College.
108. DEMOSTHENES: PHILIPPICS AND OLYNTHIACS. Three credit hours.
112. HERODOTUS. Three credit hours.
113. GREEK STYLE, I. Two credit hours.
117. LYSIAS. Three credit hours.
123. GREEK STYLE, II. Two credit hours.
141. THUCYDIDES: SICILIAN EXPEDITION. Three or four credit hours.
151. HOMER: ILIAD, I-XII. Three credit hours. A study of the Greek epic.
152. HOMER: ILIAD, XIII-XXIV. Three credit hours.
153. HOMER: ODYSSEY. Three credit hours.
160. SOPHOCLES. Three or four credit hours. *The Oedipus Tyrannus* and *Antigone*.

- 162. EURIPIDES. Three credit hours.
- 163. AESCHYLUS. Three credit hours.
- 164. ARISTOPHANES. Three credit hours.
- 171. PLATO: THE REPUBLIC. Three or four credit hours.
- 172. PLATO: DIALOGUES. Three credit hours.
- 185. CLASSICAL ARCHAEOLOGY. Two or three credit hours.
- 188. HISTORY OF CLASSICAL LITERATURE. Three credit hours.
- 195. GREEK LITERATURE IN TRANSLATION. Three credit hours.
- 197. SPECIAL STUDY. Three credit hours. Greek poetry.
- 198. SPECIAL STUDY. Three credit hours. Greek prose.
- 199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in Greek.

#### GRADUATE DIVISION

- 201. GREECE TO 480. Three credit hours.
- 202. GREECE, THE FIFTH CENTURY. Three credit hours.
- 204. GREEK PALAEOGRAPHY. Three credit hours.
- 215. GREEK AND ROMAN ART. Three credit hours.
- 216. TOPOGRAPHY OF ANCIENT ATHENS. Three credit hours.
- 241. THUCYDIDES. Three credit hours.
- 245. HERODOTUS. Three credit hours.
- 253. HOMER. Three credit hours.
- 261a. SOPHOCLES: EARLY PLAYS. Three credit hours.
- 261b. SOPHOCLES: LATER PLAYS. Three credit hours.
- 262. EURIPIDES. Three credit hours.
- 263. AESCHYLUS. Three credit hours.
- 267. ARISTOPHANES. Three credit hours.

- 271. PLATO: UTOPIA. Three credit hours.
- 272. PLATO: EARLY DIALOGUES. Three credit hours.
- 273. PLATO: MIDDLE DIALOGUES. Three credit hours.
- 274. PLATO: LATE DIALOGUES. Three credit hours.
- 275. ARISTOTLE: NICOMACHAEAN ETHICS. Three credit hours.
- 276. ARISTOTLE: METAPHYSICS. Three credit hours.
- 289. LONGINUS. Three credit hours.
- 299. MASTER'S THESIS. Six credit hours.

### Latin (Lt)

#### UNDERGRADUATE DIVISION

##### *Lower Division Courses*

- 1. ELEMENTARY LATIN. Eight credit hours. Five hours per week.
- 2. Two semesters.
- 13. LATIN COMPOSITION, I. Three credit hours.
- 14. LATIN COMPOSITION, II. Three credit hours.
- 15. INTERMEDIATE LATIN. Three credit hours. Prerequisite:
- 16. Latin 1 and 2 or their equivalent in high school. Review of grammar with special emphasis on reading; conversation and composition.
- 17. PHILOSOPHICAL LATIN. Three credit hours. An intensive review of basic syntax intended to prepare students for the reading of philosophical texts in Latin.
- 20. LATIN READINGS. Two credit hours. Graded readings selected
- 21. from the Latin Fathers, philosophical and theological authors, and the classics; designed for ready grasp of Latin idiom and vocabulary building.
- 22. HORACE: ODES. Three or four credit hours.
- 28. CICERO. Three or four credit hours. The *De Senectute* and/or the *De Amicitia*.
- 51. VIRGIL: AENEID, I-VI. Three credit hours.
- 53. VIRGIL: AENEID, VII-XII. Three or four credit hours.

*Upper Division Courses*

*Open to Advanced Undergraduates and to Graduates*

101. ROMAN ORATORY. Three credit hours.
106. HISTORY OF ANCIENT ROME. Three credit hours.
107. CONSTITUTIONAL HISTORY OF ROME. Three credit hours.
108. CAESAR. Three credit hours. A study of the entire Gallic War with a consideration of Roman military history.
109. PLINY: SELECTED LETTERS. Three credit hours.
110. TACITUS: AGRICOLA, GERMANIA. Three credit hours.
111. LIVY. Three credit hours.
112. TACITUS: THE ANNALS. Three credit hours.
113. ADVANCED LATIN COMPOSITION. Two, three or four credit hours.
114. ADVANCED LATIN COMPOSITION. Two credit hours.
118. ROMAN HISTORIANS. Three credit hours.
119. CICERO: LETTERS. Three credit hours.
120. CICERO: PRO ARCHIA, PRO LEGE MANILIANA, AND PRO MARCELLO. Three credit hours.
121. CICERO: PRO MILONE. Three credit hours.
122. INTRODUCTION TO A STUDY OF THE LATIN FATHERS. Three credit hours.
123. LATIN STYLE. Two, three, or four credit hours. Translations
124. of standard English excerpts into Latin.
127. ROMAN METRICS. Three credit hours.
128. CICERO: ESSAYS. Two or three credit hours.
131. HORACE: ODES. Three credit hours.
135. EARLY CHRISTIAN POETS. Three credit hours.
138. MEDIAEVAL LATIN. Three credit hours.
141. HORACE: SATIRES, EPISTLES. Two or three credit hours.



- 142. JUVENAL. Three credit hours.
- 151. VIRGIL: AENEID. Three credit hours.
- 161. ROMAN COMEDY. Three credit hours.
- 171. CICERO: TUSCULAN DISPUTATIONS. Three credit hours.
- 172. CICERO: DE OFFICIIS. Three credit hours.
- 183. CLASSICAL ARCHAEOLOGY. Two or three credit hours.
- 188. HISTORY OF CLASSICAL LITERATURE. Three credit hours.
- 191. LUCRETIUS. Three credit hours.
- 198a. SPECIAL STUDY. Three credit hours.
- 198b. SPECIAL STUDY. Three credit hours.
- 199. SENIOR COMPREHENSIVE REVIEW. Two or three credit hours.  
Required of all seniors majoring in Latin.

#### GRADUATE DIVISION

- 201. LATIN PALAEOGRAPHY. Three credit hours.
- 209. EARLY ROMAN EMPIRE. Three credit hours.
- 212. THE ANNALS OF TACITUS. Three credit hours.
- 213. THE HISTORIES OF TACITUS. Three credit hours.
- 221. LETTERS OF CICERO. Three credit hours.
- 222. CONFESSIONS OF SAINT AUGUSTINE. Three credit hours.
- 223. STYLISTIC LATIN. Three credit hours.
- 224. SEMINAR IN PATRISTIC LITERATURE. Three credit hours.
- 227. ROMAN METRICS. Three credit hours.
- 232. CATULLUS. Three credit hours.
- 233. SEMINAR IN ROMAN ELEGY. Three credit hours.
- 238. MEDIAEVAL LATIN. Three credit hours.
- 241. HORACE. Three credit hours.

242. JUVENAL. Three credit hours.
245. SEMINAR IN ROMAN SATIRE. Three credit hours.
251. VIRGIL. Three credit hours.
262. ROMAN COMEDY. Three credit hours.
291. EPICUREANISM AT ROME. Three credit hours.
297. HISTORICAL DEVELOPMENT OF THE LATIN LANGUAGE. Three credit hours.
298. SPECIAL STUDY. Three credit hours.
299. MASTER'S THESIS. Six credit hours.

### Economics (Ec)

*Staff:* DR. HAILSTONES, *director*; FR. BESSE, *chairman, undergraduate*; DR. BRYAN, MR. DONNELLY, MR. FATORA, DR. HARRIMAN, DR. HAYES, DR. LINK, MR. B. MARTIN, MR. MCINTYRE, DR. SCHULTZ.  
*Assisted by:* MR. WEGMAN.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

11. ECONOMIC HISTORY OF THE UNITED STATES. Three credit hours.  
 A study of the development of the American economy from the period of colonization to the present. Traces the progress of population, agriculture, industry, domestic and foreign commerce, banking and finance, and transportation. Integrates the economic, social and political development in the United States.
33. PRINCIPLES OF ECONOMICS. Three credit hours. This is the standard foundation course for all fields of study in Economics and Business Administration. The course covers the fundamental principles governing present day business and economic activity.
34. PRINCIPLES OF ECONOMICS. Three credit hours. This course emphasizes the study and analysis of selected problems in the field of business economics. Prerequisite: Ec 33.

*Upper Division Courses*

101. HISTORY OF THE LABOR MOVEMENT. Three credit hours. A study of the labor movement from the Colonial period to the present.
103. LABOR ECONOMICS. Three credit hours. The position of labor in a capitalistic, free enterprise society. The size and components of the labor force. Consideration of the economic determinants of the wages, and the level of employment; the development of labor legislation.
104. LABOR RELATIONS. Three credit hours. Union-management relations; day-to-day relations; collective bargaining negotiations; government intervention in union-management relations; case studies of labor disputes.
105. LABOR RELATIONS AND COLLECTIVE BARGAINING. Two credit hours. Analysis of the subjects of bargaining and their scope; technique of negotiation of contracts; day-to-day administration of an executed agreement. Case history study of problems posed. Given at Evening College.
106. LABOR RELATIONS AND COLLECTIVE BARGAINING. Two credit hours. A continuation of 105. Given at Evening College.
107. LABOR LEGISLATION. Three credit hours. Causes, origins and development of labor law affecting the livelihood of the American workingman; emphasis on Taft-Hartley Act, Fair Labor Standards Act and wage stabilization.
108. INTERNATIONAL LABOR PROBLEMS. Three credit hours.
110. ECONOMICS OF TRANSPORTATION. Three credit hours. Social and economic effects of improved transportation and communication. Organization, physical facilities, rates and regulation of transportation.
151. MONEY AND BANKING. Three credit hours. Structure and operation of the present money and banking system; theory and history of money; credit and commercial banking; international financial relationships; Federal Reserve System. Prerequisites: Ec 33, 34.
152. GOVERNMENT AND BUSINESS. Three credit hours. The decline of *laissez faire* and the concomitant growth of governmental regulation of business in the American economy; anti-trust laws: their effectiveness in protecting and promoting business competition. (Po 152)

155. CORPORATION FINANCE. Three credit hours. The various types of American enterprises with special emphasis on the corporation—its organization, management, financing and budgeting.
156. PUBLIC FINANCE AND TAXATION. Three credit hours. Analysis of the various forms of taxation; shifting and incidence of taxation; public borrowing; non-tax revenues; public expenditures; the effects of government revenue and expenditures on our economy. (Po 156)
158. BUSINESS CYCLE ANALYSIS. Three credit hours. History, description, measurement and pattern of business cycles; analysis of various theories and anticyclical measures; problems of economic stability.
159. INTERNATIONAL MONETARY POLICY. Three credit hours.
181. ECONOMIC GEOGRAPHY. Three credit hours. Study of world geography and the economic implications of natural resources. Emphasis on production of goods in relation to the development of agriculture, commerce and industry in the United States and foreign countries. Prerequisites: Ec 33, 34.
182. HISTORY OF ECONOMIC THOUGHT. Three credit hours. Study of world economic movements; analysis of literature in the field; theories of economics advanced by Aristotle, Saint Thomas Aquinas, Adam Smith, Ricardo, Mills, Malthus, George, Clark, Bentham, Jevons, Keynes and others.
183. CURRENT ECONOMIC PROBLEMS. Three credit hours. Current problems in labor, monetary, and fiscal policy, debt management, social security legislation, public regulation of business and agriculture form a basis of discussion and analysis. Prerequisites: Ec 33, 34 and six hours upper-division credit in economics.
184. PRINCIPLES OF INTERNATIONAL TRADE. Three credit hours. Importance to the economic life of the United States; markets for American products; foreign sales in comparison with domestic sales; financial problems of foreign trade; Import-Export Bank.
185. COMPARATIVE ECONOMIC SYSTEMS. Three credit hours. Origin and development of various economic systems; analysis of their operations and purposes; a comparison of the principal types—Socialism, Fascism, Communism—with Capitalism.
186. SOCIO-POLITICS AND CAPITALISM. Three credit hours.

187. PHILOSOPHY OF COMMUNISM. Two credit hours. The fundamental principles of Marxist Communism; their origins in the writings of Marx, Engels, Lenin and Stalin; their relative importance; popular and orthodox Communism; economic principles of Communism and their spiritual foundation; critical analysis of important contemporary arguments against Communism. A Christian Culture course.
188. INTERMEDIATE ECONOMIC ANALYSIS. Three credit hours. An advanced study of economic principles including an analysis of such fundamental concepts as value and price, rent, interest, wages and profits and their relation to the current problems of production, distribution and exchange.
189. CHRISTIAN THEORY OF ECONOMICS. Two credit hours. A study of economics from the viewpoint of Christian ethics. The Encyclicals as they affect the science of economics and business. A course intended to help the future business man plan and preserve a code of ethics founded on solid Christian principles. A Christian Culture course.
191. ECONOMIC PROBLEMS OF LATIN AMERICA. Three credit hours.
197. TUTORIAL COURSE. Two or three credit hours. Special reading and study for advanced students.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in economics. Prerequisites: Senior standing. Concurrent completion of major requirements.

Other courses acceptable for a major or minor in economics:

- BA 128 BUSINESS STATISTICS
- BA 131 PRINCIPLES OF MARKETING
- BA 157 INVESTMENTS
- BA 165 PERSONNEL MANAGEMENT
- BA 170 BUSINESS ORGANIZATION AND MANAGEMENT

### Education (Ed)

*Staff:* DR. MCCOY, *chairman*; DR. CLARKE, MR. LAVELL,  
DR. LOZIER, FR. MALONE, DR. SOMMER, MR. BILES,  
MR. MCCAFFERTY, MR. RUBERG.

*Assisted by:* DR. HAMEL, MR. LAGRANGE, FR. REINKE.

The courses in education, planned for the express purpose of providing the required standard preparation for teaching in secondary schools, are open to students majoring in any department.

Courses constituting the minimum professional requirements for high-school certification in Ohio are:

1. For the teaching of any subject—Ed 31, 32, 101, 102, 103 and a two-hour elective in education.
2. For teaching physical education—Bl 9, 10, Ed 161, 162, 163, 164, 165, 166, 167 and 168 in addition to above.

Students desirous of meeting professional requirements of other states, should obtain an official statement of specific requirements from the Department of Education of their respective states, and consult the Chairman of the Department before registering for courses in education.

## UNDERGRADUATE DIVISION

### *Lower Division Courses*

31. PRINCIPLES OF EDUCATION. Three credit hours. The role of the school in society.
32. EDUCATIONAL PSYCHOLOGY. Three credit hours. The psychology of human development and learning. Prerequisite: Ps 31. (Ps 32)

### *Upper Division Courses*

101. SECONDARY METHODS. Two credit hours. Methodology applicable to high school teaching in general. Methods best suited to each of the major content fields.
102. SECONDARY CURRICULUM. Two credit hours. Functions of secondary education; curricular experiences.
103. STUDENT TEACHING. Six credit hours. Laboratory experience in high school teaching under the supervision of a critic teacher for one semester.
110. HISTORY OF EDUCATION. Three credit hours. A brief survey of educational theory, institutions, and practice during ancient and modern times with special emphasis on contemporary education. Given at Milford College.
121. SPEECH THERAPY. Two credit hours. (Ex 121)
134. CHILD PSYCHOLOGY. Two credit hours. The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty. (Ps 134)

135. **ADOLESCENT PSYCHOLOGY.** Two credit hours. Interrelated physical, physiological, and mental changes associated with adolescence (Ps 135)
136. **ABNORMAL PSYCHOLOGY.** Two credit hours. An introduction to the major psychoses and neuroses. (Ps 136)
137. **INDIVIDUAL MENTAL TESTING.** Two credit hours. Study and analysis of individual mental testing techniques. Supervised experience with Stanford and Bellevue. Minimum of twelve individual examinations required. (Ps 137)
138. **STATISTICAL TECHNIQUES.** Two credit hours. Elementary statistical topics; organization and interpretation of group data; sampling; measures of relationship. (Ps 138)
139. **CLINICAL PSYCHOLOGY OF MUSIC.** Two credit hours. Principal applications of music to the diagnosis and treatment of personality disorders. Current thinking and practice in the field of musical therapy. (Ps 139)
142. **MENTAL HYGIENE.** Two credit hours. Social consequences of poor mental health. Consideration from a genetic point of view of factors contributing to mental health. (Ps 142)
150. **MORAL PRINCIPLES IN GUIDANCE.** Two or three credit hours. Principles of moral Theology as applied particularly in student guidance and counselling.
153. **EXPERIMENTS IN LEARNING.** Two credit hours. Repeating in the psychological laboratory some of the classic experiments. (Ps 153)
154. **PERSONALITY PROBLEMS.** Two credit hours. Maladjustments; behavior handicaps; aggressiveness; phobias; the intangibles of personality. (Ps 154)
155. **DYNAMIC PSYCHOLOGY.** Two credit hours. Human motivation in the normal personality from the point of view of general psychology. (Ps 155)
156. **PSYCHOLOGY OF DELINQUENCY.** Two credit hours. A treatment of the types and causes of juvenile delinquency together with brief case histories. (Ps 156)
158. **SOCIAL PSYCHOLOGY.** Two credit hours. Social factors in the development of personality; interactions between the individual and the group. (Ps 158)

161. ADMINISTRATION OF PHYSICAL EDUCATION. Three credit hours. The principles, organization, and administration of the physical education program and the development of the intramural athletic program.
162. ADMINISTRATION OF HEALTH EDUCATION. Three credit hours. Methods and materials for teaching health. The selection of health material, organizational techniques, and the administration of the school health program.
- 163, 164. PHYSICAL EDUCATION METHODS AND MATERIALS. Four credit hours. The theory and practice of teaching physical education. Subject matter for use in teaching touch football, soccer and speedball, organized games, tumbling and apparatus, basketball, volleyball, conditioning, track and field, softball; physical education tactics and testing. Two semesters.
- 165, 166. COACHING. Four credit hours. The theory of coaching football, basketball, baseball, track and field, golf, and tennis. Two semesters.
- 167, 168. HEALTH AND HYGIENE. Four credit hours. Ed 167 includes the American Red Cross Standard and the Advanced First Aid course, and the prevention and treatment of athletic injuries. Ed 168 includes personal and community hygiene for use in teaching that subject. Two semesters.
175. PERSONALITY PROBLEMS I. Two credit hours. Maladjustments; behavior handicaps; aggressiveness; phobias; the intangibles of personality. (Ps 175)
176. PERSONALITY PROBLEMS II. Two credit hours. A continuation of Ed 175. (Ps 176)
177. THEORIES OF PERSONALITY. Two credit hours. (Ps 177)
198. TUTORIAL COURSE. Credit to be arranged. Special reading and directed study for advanced students.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in education.

### GRADUATE DIVISION

The Department of Education of the Graduate Division is organized to offer the in-service teacher or school administrator opportunities for advanced professional training through individual courses or through balanced programs leading to the Master of Education degree.



*Required of all Candidates for M.Ed. Degree*

201. **PHILOSOPHY OF EDUCATION.** Three credit hours. The historical development of educational philosophy and theories. Evaluation of major current philosophies.
203. **EDUCATIONAL PSYCHOLOGY.** Three credit hours. Major issues in the field of methods and educational psychology. The learning process. Factors influencing learning. The nature and extent of individual differences.
205. **EDUCATIONAL ADMINISTRATION.** Three credit hours. The role of the federal, state and local governments. School management including an overview of instructional personnel, business management, research, community relations and various responsibilities of the administrator.
207. **EDUCATIONAL RESEARCH.** Three credit hours. Major techniques and methods of educational research. Comprehension of statistical terminology of research. Specific techniques and guides for efficiently locating educational research on a given problem.

*Open to Graduate Students and Advanced Undergraduates*

(For course descriptions, see preceding pages.)

121. **SPEECH THERAPY.** Two credit hours. (Ex 121)
134. **CHILD PSYCHOLOGY.** Two credit hours. (Ps 134)
135. **ADOLESCENT PSYCHOLOGY.** Two credit hours. (Ps 135)
136. **ABNORMAL PSYCHOLOGY.** Two credit hours. (Ps 136)
137. **INDIVIDUAL MENTAL TESTING.** Two credit hours. (Ps 137)
138. **STATISTICAL TECHNIQUES.** Two credit hours. (Ps 138)
139. **CLINICAL PSYCHOLOGY OF MUSIC.** Two credit hours. (Ps 139)
142. **MENTAL HYGIENE.** Two credit hours. (Ps 142)
153. **EXPERIMENTS IN LEARNING.** Two credit hours. (Ps 153)
154. **PERSONALITY PROBLEMS.** Two credit hours. (Ps 154)
155. **DYNAMIC PSYCHOLOGY.** Two credit hours. (Ps 155)
156. **PSYCHOLOGY OF DELINQUENCY.** Two credit hours. (Ps 156)

- 158. SOCIAL PSYCHOLOGY. Two credit hours. (Ps 158)
- 175. PERSONALITY PROBLEMS I. Two credit hours. (Ps 175)
- 176. PERSONALITY PROBLEMS II. Two credit hours. (Ps 176)
- 177. THEORIES OF PERSONALITY. Two credit hours. (Ps 177)

*Open to Graduate Students Only*

- 211. ELEMENTARY CURRICULUM. Two credit hours. Aims of elementary education. Specific objectives of primary and upper-elementary divisions. Classroom techniques for realizing these objectives.
- 212. CURRENT PROBLEMS OF ELEMENTARY EDUCATION. Two credit hours. A seminar.
- 213. TEACHING THE BASIC SKILLS IN THE ELEMENTARY SCHOOL. Two credit hours. A study of instructional techniques for the teaching of reading, writing, spelling and arithmetic.
- 214. PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS. Two credit hours.
- 221. SECONDARY CURRICULUM. Two credit hours. Aims of secondary education. Specific objectives of curricular areas. Classroom techniques for realizing these objectives.
- 222. CURRENT PROBLEMS OF SECONDARY EDUCATION. Two credit hours. A seminar.
- 231. PSYCHOLOGICAL AND ACHIEVEMENT TESTING. Two credit hours. The theory of testing. Limitations and interpretation of tests.
- 232. EDUCATIONAL AND VOCATIONAL GUIDANCE. Two credit hours. The school's responsibility for moral, social, and vocational guidance. Essentials of an adequate guidance program.
- 233. COUNSELLING PRINCIPLES AND TECHNIQUES. Two credit hours. Theory of counselling. Case method. Relationships to testing and to other sources of data. Interviewing. Place and value of records. Clinical procedures.
- 234. ELEMENTARY SCHOOL GUIDANCE. Two credit hours.
- 238. CLINICAL EXPERIENCE. Two to four credit hours. A laboratory course. Individual tests at Child Guidance Clinic. Observation and interpretation of children tested under supervision. Prerequisite: Ed. 137.

239. LABORATORY IN GUIDANCE. Two credit hours. Study of individual pupils: collecting pertinent data, interviewing, recording, diagnosis, inter-agency collaboration. Child Guidance Clinic. Prerequisite: Ed 233.
241. ELEMENTARY SCHOOL ADMINISTRATION. Two credit hours. Criteria for an effective elementary school organization. Patterns of school organization. Administrative problems.
242. SECONDARY SCHOOL ADMINISTRATION. Two credit hours. Organization of secondary schools. Techniques of schedule-making. Administrative problems.
243. SUPERVISION OF INSTRUCTION. Two credit hours. Techniques of improving instruction through supervision.
252. RESEARCH: HISTORY AND PHILOSOPHY OF EDUCATION. One or two credit hours. Individual research. Prerequisite: Ed 207.
253. RESEARCH: ADMINISTRATION. One or two credit hours. Individual research. Prerequisite: Ed 207.
254. RESEARCH: SECONDARY EDUCATION. One or two credit hours. Individual research. Prerequisite: Ed 207.
255. RESEARCH: ELEMENTARY EDUCATION. One or two credit hours. Individual research. Prerequisite: Ed 207.
256. RESEARCH: GUIDANCE. One or two credit hours. Individual research. Prerequisite: Ed 207.
257. RESEARCH: REMEDIAL READING. One or two credit hours. Individual research. Prerequisite: Ed 207.
258. RESEARCH: PSYCHOLOGY. One or two credit hours. Individual research. Prerequisite: Ed 207.
259. RESEARCH: COMMUNICATION ARTS. One or two credit hours. Individual research. Prerequisite: Ed 207.
261. EDUCATIONAL SOCIOLOGY. Two credit hours. The Christian home; larger social units. The school in relation to other community social agencies.
263. PAROCHIAL SCHOOL SOCIAL SERVICE. Two credit hours. Special services that community agencies offer pupils. A required course for an elementary principal's certificate in the Archdiocese of Cincinnati. Open only to such candidates.
265. PAROCHIAL SCHOOL ADMINISTRATION. Two credit hours. Problems confronting the elementary school principal in

schools of the Archdiocese of Cincinnati. Required course for an elementary principal's certificate in the Archdiocese of Cincinnati. Open only to such candidates.

270. AUDIO-VISUAL AIDS TO EDUCATION. Two credit hours. A study and examination of television, radio, the movie, recording machines and the phonograph as means of understanding and communication.
272. SCHOOL PUBLIC RELATIONS. Two credit hours. Relations of school and community. Effective use of media of public relations—press, radio, television.
275. SCHOOL LAW. Two credit hours. Legal framework within which schools operate. Federal and state precedents. State code. Legal provisions for school finance.
276. SCHOOL FINANCE. Two credit hours.
277. SCHOOL BUILDINGS. Two credit hours.
279. IMPROVING READING. Two credit hours.
280. REMEDIAL READING. Two credit hours. The reading process. Reading disability and its psychological problems. Diagnosis of disability. Remedial instruction.
281. CLINIC IN REMEDIAL READING. Four credit hours. Lectures and laboratory experiences in remedial reading techniques. Diagnoses and instruction of selected children with reading disabilities. Special materials fee of \$5.00.
282. DEMONSTRATIONS FOR TEACHING SCIENCE. Two credit hours. Simple techniques for demonstrating scientific principles. Emphasis on materials which are easily and inexpensively gathered. Coordinated by the Department of Chemistry.
283. TEACHING OF LATIN. Two credit hours.
285. WORKSHOP IN SCHOOL PUBLICATIONS. Two credit hours. Course designed for advisers on school newspapers, annuals and school literary publications. Mechanics of publications. Publications in public relations.
287. WORKSHOP: EDUCATION FOR FAMILY LIVING. Two credit hours.
298. SPECIAL STUDY. Two or three credit hours.
299. MASTER'S THESIS. Six credit hours. For students desiring a program leading to the degree of Master of Arts.

## English (En)

*Staff:* DR. WHEELER, *chairman*; FR. P. ALLEN, FR. CLEAR, DR. DOERING, MR. FELDHAUS, FR. FLYNN, MR. GLENN, FR. MANION, FR. SULLIVAN, FR. SWEENEY, MR. WACK, MR. WENTERSDORF, DR. WILLER.

*Assisted by:* DR. HARPER, MR. HELMES, MR. LAVELL, MR. NOLAN.

Clear and forceful expression is one of the major objectives of education. The ability to speak and write at the college level, therefore, is demanded of all Xavier students. Deficiencies and carelessness in the use of English in term papers, examinations, and oral reports will not be tolerated in any department. As often as it becomes necessary, students will be required to do remedial work in communication in any year of their courses.

Particular attention is called to the following regulation passed by the Academic Council, November 28, 1950:

The violation of any of the ESSENTIALS FOR WRITING (list submitted by the Department of English) in term papers or reports submitted by students to any professor must be penalized by a reduction in grade. Any unsatisfactory term paper or report submitted to any professor must be returned for re-writing and must be automatically penalized by the reduction of one letter in grading, e. g., a B paper automatically becomes a C paper.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

3. ENGLISH COMPOSITION. Three credit hours. Principles of effective writing. Exposition. Required of freshmen.
4. ENGLISH COMPOSITION. Three credit hours. Argumentation, description, narration. Forms of prose. Required of freshmen.
31. STUDIES IN LITERATURE. Three credit hours. Study and critical evaluation of English and American poetry. Required for graduation except of Honors A.B. and Milford College students.
32. STUDIES IN LITERATURE. Three credit hours. Nature of drama and the theater; evaluation of representative plays. Required for graduation except of Honors A.B. and Milford College students.

42. ENGLISH LITERATURE TO 1750. Three credit hours. Given at Milford College.
43. ENGLISH LITERATURE SINCE 1750. Three credit hours. Given at Milford College.

*Upper Division Courses*

101. ADVANCED WRITING. Three credit hours. Closely supervised creative work. By permission only.
102. JOURNALISTIC WRITING. Three credit hours. Practice in various kinds of journalistic assignments.
111. AESTHETICS AND LITERARY CRITICISM. Three credit hours. Philosophical basis of aesthetics; elements of taste; critical standards.
112. POETRY. Three credit hours. Similar to En 111 but limited to English and American poetry. Given at Milford College.
114. DEVELOPMENT OF ENGLISH PROSE. Three credit hours. Analysis from Lyly to the present. Given at Milford College.
116. ORATORY. Three credit hours. Theory and historical survey of oratory. Preparation and delivery of addresses. Given at Milford College.
121. MODERN DRAMA. Three credit hours. English and American drama.
122. ENGLISH DRAMA. Three credit hours. Given at Evening College.
123. AMERICAN DRAMA. Three credit hours.
125. THE SHORT STORY. Three credit hours. The American, English, and continental short story.
130. THE ENGLISH NOVEL TO 1890. Three credit hours.
137. WORLD LITERATURE. Three credit hours. Masterpieces in classical and modern languages.
138. THE OLD TESTAMENT. Two or three credit hours.
139. THE NEW TESTAMENT. Two or three credit hours.
140. THE BEGINNINGS OF ENGLISH LITERATURE. Three credit hours. Non-linguistic survey of Old English and related literature.

141. SURVEY OF ENGLISH LITERATURE. Three credit hours. English literature from the beginnings to the Victorians.
142. SURVEY OF ENGLISH LITERATURE TO 1750. Three credit hours.
143. SURVEY OF ENGLISH LITERATURE SINCE 1750. Three credit hours.
144. MEDIEVAL ENGLISH LITERATURE. Three credit hours. Non-linguistic survey exclusive of Chaucer.
145. CHAUCER: *The Canterbury Tales*. Three credit hours.
147. THE ENGLISH RENAISSANCE. Three credit hours. Tudor humanism, religious controversy, and the Elizabethan theater.
150. SHAKESPEARE. Three credit hours. Study of Shakespearian sources and age. Reading of approximately ten plays.
151. SHAKESPEARE TO 1601. Three credit hours. Given at Evening College.
152. SHAKESPEARE, 1601-1616. Three credit hours. Given at Evening College.
155. MILTON. Three credit hours.
160. EIGHTEENTH CENTURY LITERATURE. Three credit hours.
165. THE ROMANTIC MOVEMENT. Three credit hours.
170. VICTORIAN POETRY. Three credit hours.
171. VICTORIAN PROSE. Three credit hours.
175. MODERN PROSE. Three credit hours. Study of significant trends and authors, American and British.
176. MODERN POETRY. Three credit hours. Study of significant trends and poets, American and British.
180. SURVEY OF AMERICAN LITERATURE. Three credit hours. From the colonial writers to the twentieth century.
183. THE AMERICAN NOVEL. Three credit hours.
188. CATHOLIC LITERATURE. Two or three credit hours.
190. NEWMAN. Two or three credit hours. *The Idea of a University*

- 192. CHESTERTON. Two credit hours.
- 193. MODERN CATHOLIC PROSE. Two or three credit hours.
- 194. SPECIAL STUDY. Credit by arrangement. Directed research.
- 199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of majors. Ordinarily offered in second semester only.

### GRADUATE DIVISION

One-half of the work for the Master's degree must be completed in these courses open to graduate students only.

- 201. BIBLIOGRAPHY: METHODS OF LITERARY STUDY. Three credit hours. Term paper technique; typical student problems.
- 209. HISTORY OF THE ENGLISH LANGUAGE. Three credit hours.
- 211. SOURCES OF CRITICISM. Three credit hours. Primary sources of critical standards.
- 223. STUDIES IN AMERICAN DRAMA. Three credit hours.
- 230. THE NOVEL: DEVELOPMENT IN ENGLAND. Three credit hours.
- 240. EPIC AND ROMANCE. Three credit hours. Development of folk literature into more mature forms.
- 244. MEDIEVAL THOUGHT IN LITERATURE. Three credit hours.
- 245. CHAUCER AND HIS MILIEU. Three credit hours. Chaucer as an interpreter of his times.
- 247. EARLY TUDOR LITERATURE. Three credit hours.
- 248. ELIZABETHAN LITERATURE. Three credit hours.
- 250a. STUDIES IN SHAKESPEARE: TRAGEDIES. Three credit hours.
- 250b. STUDIES IN SHAKESPEARE: HISTORY AND COMEDIES. Three credit hours.
- 255. STUDIES IN MILTON. Three credit hours.
- 257. SEVENTEENTH CENTURY LITERATURE. Three credit hours.
- 260. NEO-CLASSICISM. Three credit hours.
- 265. ROMANTICISM. Three credit hours.
- 270. VICTORIAN POETS. Three credit hours.



- 271. VICTORIAN ESSAYISTS. Three credit hours.
- 275. STUDIES IN MODERN PROSE. Three credit hours.
- 276. STUDIES IN MODERN POETRY. Three credit hours.
- 280. AMERICAN LITERATURE. Three credit hours.
- 285. AMERICAN NOVEL, 1870-1925. Three credit hours.
- 294. SPECIAL STUDY. Three credit hours. Intensive study of problems or particular areas of literature.
- 299. MASTER'S THESIS. Six credit hours.

### Fine Arts (FA)

*Staff:* MR. NEWMAN.

Courses in the Fine Arts are administered by the Dean of the College of Arts and Sciences.

The aim of these courses is to bring about an understanding of the arts in the student, and thus to develop his aesthetic sensibilities. It is therefore primarily concerned with the furthering of the ideal of a liberal education. This very properly includes at least an elementary study of the fine arts, an appreciation of which is almost identified, in the popular mind, with culture and intellectual refinement.

#### *Lower Division Courses*

- 3. INTRODUCTION TO MUSIC. Two credit hours. Designed to acquaint the student with representative works from the concert repertory. Symphonic, operatic and chamber music is listened to and discussed. Brief excursions into music for solo instruments are taken. Open to all undergraduates. No prerequisite necessary.
- 4. INTRODUCTION TO MUSIC. Two credit hours. Continuation of FA 3.
- 13. INTRODUCTION TO ART. Two credit hours.

### Geography (Gg)

*Staff:* DR. LINK, DR. PETERS.

The Department of Geography is administered by the Dean of the College of Arts and Sciences. Courses are intended to augment the student's background in economics, science, and education.

*Lower Division Courses*

1. ELEMENTS OF GEOGRAPHY. Three credit hours.
2. WORLD GEOGRAPHY. Three credit hours. A study of space and distance relations on the earth; the distribution of natural features, resources, population; major commodities; transportation; world trade.

*Upper Division Courses*

120. GEOGRAPHY OF EUROPE. Three credit hours.
160. GEOGRAPHY OF LATIN AMERICA. Two or three credit hours.
175. POLITICAL GEOGRAPHY. Three credit hours. (Po 175)
181. ECONOMIC GEOGRAPHY. Three credit hours. (Ec 181)

## History and Political Science

*Staff:* FR. SHIELDS, *chairman*; DR. PETERS, *acting chairman*;  
DR. GOODMAN, FR. KAPICA, FR. LINK, FR. MENTAG,  
DR. WHEALEN.

*Graduate Fellows:* MR. DONAKOWSKI, MR. PLAGEMAN,  
MR. SIMON.

## History (Hs)

### UNDERGRADUATE DIVISION

*Lower Division Courses*

6. SURVEY OF GREEK AND ROMAN HISTORY. Three credit hours. Emphasis on culture and literature. Given only at Milford College.
7. EUROPE TO 1500. Three credit hours. A broad survey of the growth of European society and culture.
8. EUROPE SINCE 1500. Three credit hours. A continuation of Hs 7.

*Upper Division Courses*

100. HISTORY OF ANCIENT GREECE. Three credit hours. (Gk 100)
104. CHRISTIAN ANTIQUITY. Three credit hours. Early Christian society through the Patristic age.

106. HISTORY OF ANCIENT ROME. Three credit hours. (Lt 106)
107. CONSTITUTIONAL HISTORY OF ROME. Three credit hours.  
(Lt and Po 107)
111. EARLY MIDDLE AGES, 300-1154. Three credit hours. Social and cultural change from the Dark Ages to the Renaissance of the Twelfth Century.
112. LATER MIDDLE AGES, 1154-1492. Three credit hours. Medieval society in its more notable institutions.
119. RENAISSANCE AND HUMANISM. Three credit hours.
121. RELIGIOUS UPHEAVAL OF THE SIXTEENTH CENTURY. Three credit hours.
124. FRENCH REVOLUTION. Three credit hours.
125. NINETEENTH CENTURY EUROPE, 1800-1870. Three credit hours.
126. EUROPE SINCE 1870. Three credit hours.
131. ENGLAND TO 1603. Three credit hours. England from pre-historic times through Roman and medieval cultural development.
132. ENGLAND SINCE 1603. Three credit hours. A continuation of Hs 131.
135. ENGLISH CONSTITUTIONAL HISTORY. Three credit hours.  
(Po 135)
140. HISTORY OF AMERICAN POLITICAL PARTIES. Three credit hours.  
(Po 140)
141. THE UNITED STATES TO 1865. Three credit hours. Graduate credit not given.
142. THE UNITED STATES SINCE 1865. Three credit hours. Graduate credit not given.
143. FORMATIVE YEARS OF THE REPUBLIC. Three credit hours. A study of the nation-making process to 1825.
144. SECTIONALISM, 1825-1861. Three credit hours.
145. CIVIL WAR AND RECONSTRUCTION, 1861-1885. Three credit hours.
146. THE AGE OF BIG BUSINESS. Three credit hours.

147. THE U. S. IN THE 20TH CENTURY. Three credit hours.
148. CONSTITUTIONAL HISTORY OF THE UNITED STATES. Three credit hours. (Po 148)
149. THE CATHOLIC CHURCH IN THE UNITED STATES. Three credit hours. The origin, development, influence and participation of the Church in American life.
150. HISTORY OF OHIO. Three credit hours.
151. COLONIAL HISPANIC AMERICA, 1492-1810. Three credit hours. The empires of Spain and Portugal in America.
152. REPUBLICAN HISPANIC AMERICA SINCE 1810. Three credit hours. A continuation of Hs 151 since the days of independence.
153. HISTORY OF MEXICO. Three credit hours. Imperial province to nation.
154. HISTORY OF CANADA. Three credit hours. From colony to nation.
156. HISTORY OF THE WEST, 1500-1783. Three credit hours. A study of the American West as it influenced the character of the nation.
157. HISTORY OF THE WEST SINCE 1783. Three credit hours. A continuation of Hs 146.
161. HISTORY OF SPAIN. Three credit hours. Spain is studied as a parent nation in forming America and as a vigorous actor in the European drama.
163. HISTORY OF MODERN GERMANY. Three credit hours.
166. HISTORY OF RUSSIA. Three credit hours.
171. INTER-AMERICAN RELATIONS TO 1903. Three credit hours. United States dealings with Canada and Hispanic America from Washington to Theodore Roosevelt. (Po 171)
172. INTER-AMERICAN RELATIONS SINCE 1903. Three credit hours. The other American countries in their dealings among themselves and with the United States. (Po 172)
173. UNITED STATES FOREIGN RELATIONS TO 1900. Three credit hours. (Po 173)

174. UNITED STATES FOREIGN RELATIONS SINCE 1900. Three credit hours. (Po 174)
177. CONTEMPORARY PROBLEMS OF WORLD PEACE. Three credit hours. (Po 177)
181. THE NEAR EAST IN HISTORY. Three credit hours.
188. THE FAR EAST IN HISTORY. Three credit hours.
191. MEN AND IDEAS OF THE 19TH CENTURY. Three credit hours. A survey of the main economic, social, and political ideas of the 19th Century as set forth by prominent thinkers in Western Europe and the United States.
194. HISTORICAL CRITICISM. Three credit hours. An undergraduate examination of the canons of proper historical writing as exemplified in important works of history. The problem of evidence. Truth in history.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Taken either separately or in conjunction with Hs 194 as a preparation for the comprehensive examination. Required of all seniors majoring in history.

#### GRADUATE DIVISION

201. GREECE TO 480. Three credit hours. (Gk 201)
202. GREECE, THE FIFTH CENTURY. Three credit hours. (Gk 202)
209. EARLY ROMAN EMPIRE. Three credit hours. (Lt 209)
225. SEMINAR: MODERN EUROPE, I. Three credit hours. Group studies in early modern Europe.
226. SEMINAR: MODERN EUROPE, II. Three credit hours. Group studies in later modern Europe.
231. SEMINAR: MEDIEVAL ENGLAND. Three credit hours.
244. SEMINAR: JACKSONIAN ERA. Three credit hours.
246. SEMINAR: THE AGE OF BIG BUSINESS. Three credit hours.
247. SEMINAR: THE UNITED STATES IN THE 20TH CENTURY. Three credit hours.
249. SEMINAR: CATHOLIC HISTORY IN THE UNITED STATES. Three credit hours.

- 250. SEMINAR: HISTORY OF OHIO. Three credit hours.
- 251. SEMINAR: COLONIAL HISPANIC AMERICA. Three credit hours.
- 252. SEMINAR: REPUBLICAN HISPANIC AMERICA. Three credit hours.
- 256. SEMINAR: HISTORY OF THE WEST TO 1783. Three credit hours.  
Based on the idea of Hs 156.
- 257. SEMINAR: HISTORY OF THE WEST SINCE 1783. Three credit hours.
- 274. SEMINAR: UNITED STATES FOREIGN RELATIONS. Three credit hours. (Po 274)
- 295. HISTORICAL METHOD. Three credit hours. Ordinarily prerequisite to all graduate work in history. A course in the approach to research adapted to the Master's degree thesis, and to seminar work toward that degree.
- 299. MASTER'S THESIS. Six credit hours.

## Political Science (Po)

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

- 1. FEDERAL GOVERNMENT. Three credit hours.
- 2. STATE AND LOCAL GOVERNMENT. Three credit hours.

#### *Upper Division Courses*

- 102. PUBLIC ADMINISTRATION. Three credit hours.
- 105. CONSTITUTIONAL HISTORY OF ROME. Three credit hours.  
(Hs 105)
- 112. FOREIGN AFFAIRS IN THE UNITED STATES. Three credit hours.  
Organization and operation of the State Department. The foreign service. Congress and other agencies.
- 121. COMPARATIVE GOVERNMENT. Three credit hours. Representative types of modern governments.
- 131. ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY. Three credit hours. Early theories of government; growth of kingship, parliamentary ideas, English liberties; continental tendencies; canon law; secularism. Prerequisite: Junior standing.

132. MODERN POLITICAL PHILOSOPHY. Three credit hours. Rise of absolutism; modern democratic thought; international law; force doctrines; materialistic theories; Papal pronouncements. Prerequisite: Po 131.
135. ENGLISH CONSTITUTIONAL HISTORY. Three credit hours. (Hs 135)
140. HISTORY OF AMERICAN POLITICAL PARTIES. Three credit hours. (Hs 140)
141. ADMINISTRATIVE LAW. Three credit hours.
144. ETHICAL FOUNDATIONS OF POLITICS. Three credit hours. (Pl 144)
148. CONSTITUTIONAL HISTORY OF THE UNITED STATES. Three credit hours. (Hs 148)
151. INTERNATIONAL LAW. Three credit hours.
152. GOVERNMENT AND BUSINESS. Three credit hours. (Ec 152)
156. PUBLIC FINANCE AND TAXATION. Three credit hours. (Ec 156)
171. INTER-AMERICAN RELATIONS TO 1903. Three credit hours. (Hs 171)
172. INTER-AMERICAN RELATIONS SINCE 1903. Three credit hours. (Hs 172)
173. UNITED STATES FOREIGN RELATIONS TO 1900. Three credit hours. (Hs 173)
174. UNITED STATES FOREIGN RELATIONS SINCE 1900. Three credit hours. (Hs 174)
175. POLITICAL GEOGRAPHY. Three credit hours. (Gg 175)
177. CONTEMPORARY PROBLEMS OF WORLD PEACE. Three credit hours. (Hs 177)
187. PHILOSOPHY OF COMMUNISM. Two credit hours. (Pl 187)
195. REBUILDING THE SOCIAL ORDER. Two credit hours. (So 195)
198. ADVANCED READING AND RESEARCH. Credit arranged.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in political science.

## GRADUATE DIVISION

- 201. SEMINAR: THEORIES OF THE STATE. Three credit hours.
- 221. SEMINAR: COMPARATIVE GOVERNMENT. Three credit hours.
- 222. SEMINAR: "NEW ORDERS" OF THE TWENTIETH CENTURY. Three credit hours.
- 243. SEMINAR: AMERICAN POLITICAL INSTITUTIONS. Three credit hours.
- 248. SEMINAR: AMERICAN GOVERNMENT. Three credit hours.
- 274. SEMINAR: UNITED STATES FOREIGN RELATIONS. Three credit hours. (Hs 274)

## Mathematics (Mt)

*Staff:* FR. ALLEN, *chairman*; MR. BRUGGEMAN, MR. CISSELL, MR. LARKIN, DR. MAHOWALD, FR. MCMAHON, MR. SANTNER.

*Assisted by:* MR. AUSTIN, MR. O'LEARY, DR. PONG, DR. TRAMPUS.

## UNDERGRADUATE DIVISION

### *Lower Division Courses*

- D1. ENGINEERING DRAWING. Two credit hours. Use of lettering, and introduction to orthographic projection. Six hours of drawing room practice each week.
- D2. DESCRIPTIVE GEOMETRY. Three credit hours. The theory of projection drawings. Problems in projection of points and lines, and problems involving planes. Intersection and development of surfaces.
- D4. ADVANCED ENGINEERING DRAWING. Three credit hours. Working drawings, detail and assembly drawings of simple machines or structures, blueprinting from tracings.
- 1. INTERMEDIATE ALGEBRA. Three credit hours. Fundamental operations in arithmetic and algebra, equations, functions, graphs, ratios, rates, percentages, exponents, binomial theorem, quadratic equations, logarithms.



2. MATHEMATICS OF FINANCE. Three credit hours. Compound interest and discount, annuities, amortization and sinking funds, depreciation, bonds, life insurance. Prerequisite: Mt 1 or Mt 4.
4. COLLEGE ALGEBRA. Three credit hours. Rapid review of intermediate algebra, ratio and proportion, progressions, binomial theorem, determinants, permutations and combinations, probability.
5. (3) TRIGONOMETRY. Three credit hours. Trigonometric functions of an acute angle, logarithms, right triangles, trigonometric functions, radian measures, graphs, identities, addition formulas, solution of oblique triangles, inverse trigonometric functions.
6. ANALYTIC GEOMETRY. Three credit hours. Cartesian coordinates, curves and equations, straight line, circles, parabolas, ellipses, hyperbolas, transformation of axes, polar coordinates, parametric equations.
30. ELEMENTARY ANALYSIS I. Three credit hours. A study of rational functions with respect to differentiation and integration. Various applications.
31. ELEMENTARY ANALYSIS II. Three credit hours. Geometric interpretation of functions. A study of transcendental functions with respect to differentiation and integration.
50. CALCULUS AND GEOMETRY I. Three credit hours. The rate of change of function, derivatives of algebraic functions, applications, integration, applications in physics. Prerequisites: Mt 4, 5.
51. CALCULUS AND GEOMETRY II. Three credit hours. Conic sections, polar coordinates, transcendental functions, hyperbolic functions, methods of integration, applications in physics. Prerequisite: Mt 50.
52. CALCULUS AND GEOMETRY III. Three credit hours. Vectors and parametric equations, solid geometry and vectors, partial differentiation, multiple integrals. Prerequisite: Mt 51.
97. TUTORIAL STUDY. Credit by arrangement.

*Upper Division Courses*

108. DIFFERENTIAL EQUATIONS AND INFINITE SERIES. Three credit hours. Equations of the first and second orders, systems of equations, infinite series and sequences, convergence, power series.

115. **FOURIER SERIES.** Three credit hours. Orthogonal functions, Fourier series and integrals, series expansions of functions, solutions of boundary value problems by Fourier series and integrals.
124. **MATHEMATICAL STATISTICS.** Three credit hours. Classification of data, measures of central tendency and dispersion, normal and binomial distributions, sampling distributions, correlation and regression. Prerequisite: Mt 153.
128. **NUMERICAL ANALYSIS I.** Three credit hours. Differences, Central-Difference formulas, Lagrange's formula, numerical differentiation and integration, accuracy of formulas.
129. **NUMERICAL ANALYSIS II.** Three credit hours. The solution of numerical algebraic and transcendental equations, numerical solution of ordinary and partial differential equations.
144. **INTRODUCTION TO MODERN ALGEBRA I.** Three credit hours. The real number concept, fundamental notions of groups, integral domains, and fields.
145. **INTRODUCTION TO MODERN ALGEBRA II.** Three credit hours. Vectors and vector spaces, algebra of matrices, linear groups, determinants, and canonical forms.
151. **CALCULUS I.** Three credit hours. Differentiation and integration of algebraic functions, with applications to geometry and physics. Prerequisite: Mt 6.
152. **CALCULUS II.** Three credit hours. Differentiation and integration of transcendental functions, hyperbolic functions, special methods of integration, polar coordinates, parametric equations.
153. **ADVANCED CALCULUS.** Three credit hours. Limits and continuity, vector treatment of; derivatives, functions of several variables, definite integrals, multiple and line integrals.
154. **DIFFERENTIAL EQUATIONS.** Three credit hours. Equations of the first and second orders, linear equations with constant coefficients, systems of ordinary equations.
156. **LIMITS AND SERIES.** Three credit hours. Convergence of sequences and series of constants and functions, expansion of functions in power and Fourier series, introduction to summability.

158. **INTERMEDIATE ANALYSIS.** Three credit hours. Rigorous definitions of differentiation and integration, the calculus of several variables, Riemann-Stieltjes integration, measure of elementary sets.
162. **INTRODUCTION TO HIGHER GEOMETRY.** Three credit hours. Harmonic division, cross ratio, line and homogeneous coordinates, transformations of the plane, projective theory of conics.
181. **ELEMENTARY TOPOLOGY.** Three credit hours. Point set topology of metric spaces, open and closed sets, continuity, compactness, limits.
197. **SPECIAL READING AND STUDY FOR ADVANCED STUDENTS.** Credit by arrangement.
199. **SENIOR COMPREHENSIVE REVIEW.** Two credit hours. Required of all seniors majoring in mathematics.

#### GRADUATE DIVISION

The following courses are offered in a two year cycle in the evenings. Other graduate courses are offered each year.

244. **MODERN ALGEBRA I.** Three credit hours. Development of real numbers, integral domains, fields, groups, isomorphisms.
245. **MODERN ALGEBRA II.** Three credit hours. Vector spaces and matrix theory, rings and ideals, fields and extensions, Galois theory, Boolean Algebra.
250. **FUNCTIONS OF A REAL VARIABLE.** Three credit hours. The real number system, point set theory, functions, limits, continuity, differentiation.
251. **THEORY OF INTEGRATION.** Three credit hours. Infinite series, theory of measure, Riemann, Stieltjes, and Lebesgue integrals.
252. **THEORY OF COMPLEX VARIABLE I.** Three credit hours. Complex numbers, complex functions, limits, continuity, and singularities, complex integration, Cauchy's Theorems, the calculus of residues.
253. **THEORY OF COMPLEX VARIABLE II.** Three credit hours. Complex sequences and series, power series, Taylor and Laurent series, mapping, multiple valued functions and analytic continuation.

280. GENERAL TOPOLOGY I. Three credit hours. Cardinal and ordinal numbers, topological spaces, Moore-Smith convergence. Prerequisite: Mt 145 or Mt 250.
281. GENERAL TOPOLOGY II. Three credit hours. Product and quotient spaces, embedding and metrization, an introduction to algebraic topology.
297. SPECIAL READING FOR ADVANCED GRADUATE STUDENTS. Credit by arrangement.
299. MASTER'S THESIS. Six credit hours. Required of all students following Plan A.

## Military Science (MS)

### The R.O.T.C.

*Staff:* LT. COL. CONNOLLY, *chairman*; MAJ. WRIGHT, MAJ. O'CONNOR, CAPT. SAVELLE, CAPT. MILLER, CAPT. METZGER, CAPT. KLINGER, 1ST LT. MCCARTNEY.

*Assisted by:* M/SGT. BALCH, M/SGT. HIGGINS, M/SGT. WIETHORN, SFC BRAMMER, SFC ELMORE, SFC KORMANIK, SGT. DRAKE, SGT. STEVENS, SGT. STAMPER.

A senior unit of the Reserve Officers' Training Corps is maintained at the University by the Department of the Army.

The Department of Military Science and Tactics provides an opportunity for the study of subjects of recognized military and educational value to assist the student in laying the foundations of intelligent citizenship. The primary mission is to produce junior officers who have qualities and attributes essential to their progressive and continued development as officers in the Army of the United States (United States Army Reserve), and the Regular Army.

Every student who is a physically fit citizen of the United States, between the ages of fourteen and twenty-three, is obliged to take military science during the first two years of attendance. One year of military science is required of the transfer student entering as a sophomore; none, of one entering as a junior or senior.

Application for exemption from military science may be made by a student who has had active service with the armed forces of the United States and who has been honorably discharged therefrom, or for reasons of physical disability. Six months to one full year of military service, including the completion of basic training, will be accepted as meeting the requirements in military science at the

freshman level; over one year of military service meets military science requirements at the freshman and sophomore levels. All claims of exemption accompanied by the evidence thereof must be filed in the office of the PMST and reviewed by the dean.

The complete program of instruction comprises four sessions of *lower division* or basic courses and four sessions of *upper division* or advanced courses.

The basic courses are designed to give the student basic military and citizenship training which will benefit him and the military service if he goes into the army.

The advanced courses qualify a limited number of selected students for commissions in the United States Army Reserve and the Regular Army. Admission to MS 101 will depend upon the fulfillment of the following conditions:

1. The filing of a formal request with the Chairman of the Military Department within the dates annually announced.
2. The completion of MS 1, 2, 31 and 32. Equivalence of basic courses completed in service (for veterans) or in some other Reserve Officers' Training Corps unit will be determined by the Chairman of the Military Department, who should be informed of the training completed, preferably in writing, thirty days prior to registration.
3. The demonstration of exceptional qualities of leadership and scholarship.
4. An agreement to complete the course and to perform six summer weeks of practical work at camp after the completion of MS 101 and 102. This work must be done under designated military supervision at a Regular Army installation.
5. Successful passing of the prescribed physical examination.
6. Attainment of a prescribed minimum score on a special aptitude test administered by the Department of the Army.

Further information regarding the course will be found in *Corps Regulations* issued by the department.

#### *Lower Division Courses*

1. **FIRST YEAR BASIC COURSE.** Four credit hours. An introduction to military science: Organization of the Army and ROTC; practical instruction concerning the Army's primary individual weapons to include basic marksmanship; a course in American military history designed to provide a sound
- 2.

foundation in principles upon which the remainder of the curriculum may be oriented; and basic training in the school of the soldier and the exercise of command. Two semesters.

- 31, SECOND YEAR BASIC COURSE. Four credit hours. An introduction to military tactics and communications through application of basic principles to the operations of small units; elementary map and aerial photograph reading; indoctrination in various infantry crew-served weapons to include gunnery principles and methods of fire control; and continuation of training in the school of the soldier and the exercise of command. Two semesters.
- 32.

*Upper Division Courses*

- 101, FIRST YEAR ADVANCED COURSE. Six credit hours. Theory and application of military leadership; military teaching methods to include practical application of techniques; organization and capabilities of field artillery; care and use of field artillery instruments; characteristics of field artillery materiel; gun section drill; artillery gunnery to include the firing battery, observed fires, fire direction and survey; an introduction to artillery tactics and to battery operations and administration; a brief orientation in anti-aircraft artillery; and further development of leadership potential through drill and the exercise of command. Attendance at an ROTC summer training camp is normally scheduled following the first year of advanced ROTC training. Two semesters.
- 102.
- 103, SECOND YEAR ADVANCED COURSE. Six credit hours. Study of operational subjects to include command and staff functions and relationships, military intelligence, and employment of artillery in the combined arms team; an indoctrination in basic logistics to include supply and evacuation, troop movements, and the use and maintenance of motor transportation-advanced principles of field artillery gunnery; basic concepts of military administration and military justice; an orientation on the role of the United States in world affairs; a special pre-commissioning indoctrination for young officers; and continued development of leadership ability through drill and the exercise of command. Two semesters.
- 104.

## Modern Languages

*Staff:* DR. BOURGEOIS, *chairman*; MR. EBACHER, MR. RIESELMAN, DR. VEGA.

*Assisted by:* MR. WENTERSDORF, MR. ZINAM.

### UNDERGRADUATE DIVISION

#### French (Fr)

##### *Lower Division Courses*

1. ELEMENTARY FRENCH. Three credit hours. Designed to develop facility in reading, writing and speaking simple French.
2. ELEMENTARY FRENCH. Three credit hours. A continuation of Fr 1.
31. INTERMEDIATE FRENCH. Three credit hours. Review of grammar with special emphasis on reading; conversation. Prerequisite: Fr 2 or the equivalent.
32. INTERMEDIATE FRENCH. Three credit hours. A continuation of Fr 31.

##### *Upper Division Courses*

101. ADVANCED ORAL AND WRITTEN COMPOSITION. Three credit hours. Required of all majors and minors.
121. MODERN FRENCH PROSE. Three credit hours. The study of novels by modern prose writers: Chateaubriand, Balzac, Flaubert, Barres, Mauriac, Duhamel and others.
124. THE SHORT STORY. Three credit hours. The reading and study of representative short story writers.
141. POETRY OF THE NINETEENTH CENTURY. Three credit hours. Readings from Victor Hugo, Lamartine, Vigny, Musset and others.
151. FRENCH CLASSIC DRAMA. Three credit hours. A reading of dramas chosen from Corneille, Moliere, and Racine.
161. FRENCH LITERATURE TO LOUIS XIV. Three credit hours.
162. FRENCH LITERATURE SINCE LOUIS XIV. Three credit hours.

164. FRENCH POETRY SINCE BAUDELAIRE. Three credit hours. A study of Baudelaire, his poetry and influence, and of subsequent schools in contemporary French poetry.
181. CONTEMPORARY CATHOLIC WRITERS. Three credit hours. The Catholic spirit in French literature, and the Catholic literary revival in France.
194. SELECTED READINGS. Credit to be arranged. Directed reading and study for summer and special students. Course offered by arrangement with Chairman of the Department.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in French.

### German (Gr)

#### UNDERGRADUATE DIVISION

##### *Lower Division Courses*

1. ELEMENTARY GERMAN. Three credit hours. Designed to develop facility in reading, writing and speaking simple German.
2. ELEMENTARY GERMAN. Three credit hours. A continuation of Gr 1.
31. INTERMEDIATE GERMAN. Three credit hours. Review of grammar with special emphasis on reading; conversation. Prerequisite: Gr 2 or the equivalent.
32. INTERMEDIATE GERMAN. Three credit hours. A continuation of Gr 31.
33. SCIENTIFIC GERMAN. Three credit hours. Readings in the physical and biological sciences, but primarily in chemistry. This course is intended to prepare students for the use of German source materials in scientific work. Individual consultation and reports arranged as needed. Prerequisite: Gr 2 or the equivalent.
34. SCIENTIFIC GERMAN. Three credit hours. A continuation of Gr 33.

##### *Upper Division Courses*

101. ADVANCED ORAL AND WRITTEN COMPOSITION. Three credit hours. Required of all majors and minors.



110. **MEDIEVAL GERMAN LITERATURE.** Three credit hours. Lectures and readings in the representative works from 1100 to 1500 inclusive of Walther von der Vogelweide, Hartmann von Aue and Wolfram von Eschenbach.
132. **READINGS IN GERMAN LITERATURE I.** Three credit hours. The development, forms and characteristics of German literature from the beginnings to the end of the classical period. Selected readings.
133. **READINGS IN GERMAN LITERATURE II.** Three credit hours. The development, forms and characteristics of German literature from the end of the classical period to the present time. Selected readings. A continuation of Gr 132.
160. **SCHILLER.** Three credit hours. A study of the life and works of Schiller through lectures and selected readings.
161. **GOETHE.** Three credit hours. Lectures and readings in Goethe's works together with a study of his life and times.
162. **GOETHE'S FAUST.** Three credit hours. A critical study of Part I; assigned readings, reports and lectures on Part II. Lectures and discussions in German.
165. **NINETEENTH CENTURY GERMAN LITERATURE.** Three credit hours. Lectures and readings in the development of German literature from the beginning of romanticism through the rise of naturalism.
166. **NINETEENTH CENTURY GERMAN LITERATURE.** Three credit hours. A continuation of Gr 165.
170. **THE MODERN SHORT STORY.** Three credit hours. A study of the literary development of the period since 1880 and readings from representative authors including Arthur Schnitzler, Rainer, Maria Rilke, Paul Ernst, Thomas Mann and others.
171. **THE MODERN DRAMA.** Three credit hours. A study of the principal trends in the drama since 1880 and readings from Hauptmann, Hoffmannsthal and others.
172. **MODERN POETRY.** Three credit hours. A study of representative German poets from Rilke to the present time. Prerequisite: Gr 32 or 34.
194. **SELECTED READINGS.** Credit to be arranged. Directed reading and study for summer and special students. Course offered by arrangement with Chairman of the Department.

199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in German.

### Russian (Ru)

#### UNDERGRADUATE DIVISION

##### *Lower Division Courses*

1. ELEMENTARY RUSSIAN. Three credit hours. Designed to develop facility in reading, writing and speaking simple Russian.
2. ELEMENTARY RUSSIAN. Three credit hours. A continuation of Ru 1.
31. INTERMEDIATE RUSSIAN. Three credit hours. Review of grammar with special emphasis on reading and conversation. Prerequisite: Ru 2 or the equivalent.
32. INTERMEDIATE RUSSIAN. Three credit hours. A continuation of Ru 31.

### Spanish (Sp)

#### UNDERGRADUATE DIVISION

##### *Lower Division Courses*

1. ELEMENTARY SPANISH. Three credit hours. Designed to develop facility in reading, writing and speaking simple Spanish.
2. ELEMENTARY SPANISH. Three credit hours. A continuation of Sp 1.
31. INTERMEDIATE SPANISH. Three credit hours. Review of grammar with special emphasis on reading; conversation. Prerequisite: Sp 2 or the equivalent.
32. INTERMEDIATE SPANISH. Three credit hours. A continuation of Sp 31.

##### *Upper Division Courses*

101. ADVANCED ORAL AND WRITTEN COMPOSITION. Three credit hours. Required of all majors and minors.

110. EPIC POETRY. Three credit hours. *Cantar del Mio Cid*, basic work of this *genre*, will be analyzed in the classroom. Other readings from the epic literature of Spain and France.
121. SPANISH NOVEL OF THE RENAISSANCE. Three credit hours. A study of the works of the leading novelists of the fifteenth and sixteenth centuries.
135. SPANISH CIVILIZATION. Three credit hours. A presentation of Spanish society—its cultural tradition.
140. SPANISH-AMERICAN LITERATURE. Three credit hours. The colonial period from the sixteenth through the eighteenth centuries.
141. SPANISH-AMERICAN LITERATURE. Three credit hours. The nineteenth and twentieth centuries, with emphasis on the *modernista* movement.
150. NOVELA DEL SIGLO DE ORO. Three credit hours. The development of the novel during Spain's literary Golden Century closing with Cervantes' *Don Quijote*. Lectures, readings and discussions in Spanish. Collateral readings.
152. CERVANTES. Three credit hours. Life and works with analytical study of *Don Quijote*. Lectures and readings.
155. TEATRO DEL SIGLO DE ORO. Three credit hours. Lectures, readings and discussions on the leading plays and playwrights of Spain's Golden Century (1500-1650).
157. LOPE DE VEGA. Three credit hours. A study of his life and work. Reading of representative plays.
159. LOPE Y CALDERON. Three credit hours. A comparative study of the ideas, poetry and dramatic techniques of these famed playwrights.
163. NINETEENTH AND TWENTIETH CENTURY DRAMA. Three credit hours. A study of selected plays of representative dramatists of the epoch.
170. MODERN SHORT STORY. Two or three credit hours. Lectures, readings and discussions on the best known short stories of the period.
172. THE MODERN NOVEL. Three credit hours. The directed new nationalism of *la Generacion del '98* is studied by means of lectures, readings and discussions in the classroom.

180. SPANISH AUTHORS, I. Three credit hours. A survey of the leading figures in Spanish letters. Selected readings and discussions.
181. SPANISH AUTHORS, II. Three credit hours. A continuation of Sp 180.
194. SELECTED READINGS. Credit to be arranged. Directed reading and study for summer and special students. Course offered by arrangement with Chairman of the Department.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in Spanish.

### Philosophy (PI)

*Staff:* FR. TILLMAN, *chairman*; FR. BYRNE, DR. GENDREAU, MR. GRUENENFELDER, FR. KENNEY, MR. MAGNER, MR. MARRERO, MR. TICH, FR. TRACY, FR. WULFTANGE.

*Assisted by:* MR. ANDERSON, DR. HARKINS, FR. SHIELDS.

### UNDERGRADUATE DIVISION

#### *Lower Division Course*

34. LOGIC. Three or four credit hours. A course in Scholastic logic; the theory and rules of logical habits. Prerequisite to *all courses in philosophy*; may be taken concurrently with Ps 31.

#### *Upper Division Courses*

100. METAPHYSICS. Three credit hours. The science of the first principles of being: the concept and modes of being; the transcendentals; theories of analogy, act and potency; the Aristotelian categories emphasizing substance and relation; the theory of efficient causality and of purpose. Prerequisite: Pl 34.
105. PHILOSOPHY OF NATURE. Three credit hours. An historical study of the basic problems concerning metaphysics of matter; the continuum, quantity, mechanicism, space, place, motion, time and constitution of matter. Prerequisite: Pl 100.
106. NATURAL THEOLOGY. Two credit hours. An inductive inquiry into the question of Infinite Reality culminating in the philosophy of Infinite Being; a purely rational study of

the nature and properties of Infinite Being. Prerequisite: Pl 100.

111. PHILOSOPHICAL PSYCHOLOGY. Three credit hours. The unity of man; his generic and specific attributes; the origin of human knowledge; intellect, will, freedom, habits; the constitution of man; theories of the soul. Prerequisite: Pl 100.
131. PRINCIPLES OF ETHICS. Three credit hours. The science of the first principles of human goodness; the purpose of human life; the human act; morality and its essential norm; the general theory of law and rights; conscience; virtue. Prerequisite: Pl 100, 111.
132. PERSONAL AND SOCIAL ETHICS. Three credit hours. A philosophical exposition of the rights and duties of the individual on the basis of ethical norms; the origin and theories of society; the social, economic and political relationships of the individual. Prerequisite: Pl 131. *Required of all degree students as Christian Culture.*
- 132a. PERSONAL AND SOCIAL ETHICS. Three credit hours. For Honors A.B. students only.
133. HISTORY OF MODERN PHILOSOPHY. Three credit hours. A study of major philosophical systems from 1600 to contemporary times emphasizing basic philosophical positions underlying present-day thought.
144. ETHICAL FOUNDATIONS OF POLITICS. Three credit hours. A study of the present status of certain problems relating to political society, its end, and the process of politics; a review of the philosophical and ethical problems of forms of legislative organization, political parties, and constitutions. (Po 144)
146. PHILOSOPHY OF ART. Three credit hours. An examination of the basic philosophical implications in the creation of art, with emphasis on the premises of art appreciation. Inductive analysis to discern the laws of progress in art; art as a kind of knowledge; the production of the art object; the beauty, morality, and meaning of the artifact.
150. PHILOSOPHICAL THINKING. Three credit hours. A first course in philosophy for mature graduate students.
151. HISTORY OF ANCIENT PHILOSOPHY. Three credit hours. Philosophical thought of Western civilization beginning with

Thales and other pre-Socratics; the birth of perennial philosophical questions and their development through Plato and Aristotle to the Neo-Platonists.

152. TEXT OF SAINT THOMAS. Three credit hours. Reading of selected texts from the works of Thomas Aquinas. Course centered on one or two related problems bearing on current philosophical questions.
153. TEXT OF SAINT THOMAS. Three credit hours. A continuation of PI 152.
161. HISTORY OF MEDIEVAL PHILOSOPHY. Three credit hours. A survey of philosophical thought from Augustine to the close of the fourteenth century. Cultural setting for intellectual controversies of the period together with problems and solutions offered by the Masters of the Middle Ages.
195. SPECIAL STUDY. Credit to be arranged.
- 198a. PHILOSOPHY OF SAINT THOMAS. Five credit hours. Special studies for Honors A.B. students using Latin selections from Saint Thomas.
- 198b. PHILOSOPHY OF SAINT THOMAS. Five credit hours. A continuation of PI 198a.
199. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in philosophy.

### GRADUATE DIVISION

The Master's program aims at a high development of penetration into the Thomistic principles of philosophy; a knowledge of the major philosophical positions developed in Western civilization; an analytic mentality capable of formulating a problem and finding its solution; a critical approach to the thought of other philosophers; a strong degree of the habit of philosophy itself.

The minimum requirements for a Master of Philosophy degree are:

1. Completion of twenty-four semester hours of course work inclusive of PI 151 or 161, 206, 210, 222, 265, 270, 274 or their equivalents.
2. Master's thesis, PI 299, six semester hours.
3. Comprehensive examination on course work and thesis.

*Graduate Courses*

206. THOMISTIC THEORY OF KNOWLEDGE. Three credit hours.
210. THOMISTIC METAPHYSICS. Three credit hours.
219. SPECIAL PROBLEMS IN METAPHYSICS. Three credit hours.
222. PHILOSOPHY OF SCIENCE. Three credit hours. (Spring: 1958.)
223. PHILOSOPHY OF MATHEMATICS. Three credit hours.
228. PHILOSOPHICAL PROBLEMS IN MODERN SCIENCE. Three credit hours. (Spring: 1959.)
229. SPECIAL PROBLEMS IN THE PHILOSOPHY OF NATURE. Three credit hours.
230. PHILOSOPHY OF MAN. Three credit hours.
240. ETHICAL PROBLEMS IN THOMISTIC PHILOSOPHY. Three credit hours.
241. CONTEMPORARY ETHICAL PROBLEMS. Three credit hours. (Summer: 1959.)
245. PHILOSOPHY OF AESTHETICS. Three credit hours.
252. PLATO: MAJOR DIALOGUES. Three credit hours. (Fall: 1958.)
254. ARISTOTLE. Three credit hours. (Spring: 1957.)
261. AUGUSTINE OF HIPPO. Three credit hours.
262. AUGUSTINIAN THOUGHT IN THE MIDDLE AGES. Three credit hours.
263. PHILOSOPHY OF SAINT BONAVENTURE. Three credit hours.
265. THOMAS AQUINAS: ON THE UNICITY OF THE INTELLECT. Three credit hours. (Spring: 1959.)
270. SURVEY OF MODERN PHILOSOPHY, 1450-1900. Three credit hours.
273. JOHN LOCKE: THEORY OF NATURAL LAW. Three credit hours. (Spring: 1959.)
274. SEMINAR IN MODERN PHILOSOPHY: PHILOSOPHY OF RELIGION. Three credit hours. (Summer: 1958.)

275. PHILOSOPHY OF MARTIN HEIDEGGER. Three credit hours.  
(Summer: 1959.)
287. AMERICAN PRAGMATISTS. Three credit hours. (Summer: 1957.)
298. SPECIAL STUDY. Credit to be arranged.
299. MASTER'S THESIS. Six credit hours.

### Physics (Ph)

*Staff:* MR. HART, *acting chairman*; FR. BRADLEY (on leave), MR. CORDIER, MR. MARCACCIO, FR. POETKER, DR. PONG, FR. VOLLMAYER.

*Assisted by:* DR. FISCHER.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

- 3, COLLEGE PHYSICS. Eight credit hours. Mechanics, heat, sound, electricity and magnetism, and optics. Three lectures, one quiz and problem session, and one laboratory session per week. Prerequisite: Two semesters of college mathematics.
- 13, UNIVERSITY PHYSICS. Ten credit hours. The content of the course is the same as Ph 3, 4, but is more strongly mathematical. A course in calculus is presupposed or must be taken concurrently. Required of physics majors and basic engineering students. Three lectures and two laboratory and problem sessions per week.

#### *Upper Division Courses*

111. INTERMEDIATE MECHANICS. Three credit hours. Two lectures and one laboratory session.
121. HEAT. Three credit hours.
142. PHYSICAL OPTICS. Three credit hours. Two lectures and one laboratory session per week.
151. ELECTRICITY AND MAGNETISM. Four credit hours. Three lectures and one laboratory session per week.
152. ELECTRICITY AND MAGNETISM. Four credit hours. A continuation of Ph 151.
153. ELECTRONICS. Three credit hours.
164. ATOMIC PHYSICS. Three credit hours.



165. NUCLEAR PHYSICS. Three credit hours.
168. SOLID STATE ELECTRONICS. Three credit hours.
170. PHYSICS OF THE AIR. Three credit hours. The weather elements and their measurement. Dynamics and thermodynamics of the atmosphere. Air masses and fronts.
180. (GEOPHYSICS.) INTRODUCTION TO GEOPHYSICS. Three credit hours. Prerequisite: College physics. Calculus must precede or be taken concurrently.
181. (GEOPHYSICS.) EARTHQUAKES. Two credit hours.
182. (GEOPHYSICS.) ELEMENTARY SEISMOLOGY. Two credit hours.
184. (GEOPHYSICS.) PRACTICAL SEISMOLOGY. Three credit hours.
185. (GEOPHYSICS.) FORCE FIELDS OF THE EARTH. Three credit hours. Gravitational, electric, magnetic fields. Elastic waves.
191. METHODS IN MATHEMATICAL PHYSICS. Three credit hours.
197. SPECIAL READING AND STUDY FOR ADVANCED STUDENTS. Credits to be arranged.
199. SENIOR THESIS. Two credit hours. Required of all seniors majoring in physics.

## Psychology (Ps)

*Staff:* DR. HAMEL, *chairman*; DR. BIELIAUSKAS, FR. D. FOLEY, MR. LAGRANGE, FR. REINKE.

*Assisted by:* DR. CLARKE, MR. MCELROY, MR. WOLFE, FR. MALONE.

## UNDERGRADUATE DIVISION

### *Lower Division Courses*

31. GENERAL PSYCHOLOGY. Three credit hours. The study of the human personality emphasizing a careful description of its make-up and an analysis of its functions and causes.
32. EDUCATIONAL PSYCHOLOGY. Three credit hours. Learning as a psychological process. Analysis of learning; motivation; outcomes; types of learning; transfer of training; individual differences; measurement and guidance in learning. (Ed 32)

*Upper Division Courses*

101. EXPERIMENTAL PSYCHOLOGY I. Three credit hours. The purpose of this course is to introduce the student to the scientific method of experimentation in psychology. One hour of lecture and two periods of laboratory per week. Prerequisite: Ps 31, 32.
102. EXPERIMENTAL PSYCHOLOGY II. Three credit hours. Introduction to research in the experimental field. Investigation of special problems. One lecture and two periods of laboratory per week. Prerequisite: Ps 101.
103. PSYCHOLOGY OF MOTIVATION. Two credit hours. Treatment of the dynamic forces in human nature; motivation; ideals, impulses, desire and such like.
105. PSYCHOLOGY PRACTICUM. Two credit hours. Practical experience in administering tests; scoring and interpreting. Attendance at staff meetings in preparation for counseling students at Guidance Center required. Prerequisite: Ps 101, 102.
106. PSYCHOLOGY PRACTICUM. Two credit hours. A continuation of Ps 105.
111. PHILOSOPHICAL PSYCHOLOGY. Three credit hours. The specific attributes of man; origin of human knowledge; intellect, will, freedom, habits; the constitution of man; theories of the soul; the unity of man; person. (Pl 111.) Prerequisites: Pl 34, Ps 31, Pl 100.
121. THE BIOLOGICAL BASIS OF ANIMAL BEHAVIOR. Four credit hours. A comparative study of the physiology and morphology of the nervous system and sensory receptors, with special emphasis on the adaptation of animal life to environmental changes. Two lectures and four hours of laboratory. Prerequisites: Bl 1 and 2, or Bl 3 and 4. (Bl 121)
134. CHILD PSYCHOLOGY. Two credit hours. The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty. (Ed 134)
135. ADOLESCENT PSYCHOLOGY. Two credit hours. Interrelated physical, physiological, and mental changes associated with adolescence. (Ed 135)
136. ABNORMAL PSYCHOLOGY. Two credit hours. An introduction to major psychoses and neuroses. (Ed 136)

137. **INDIVIDUAL MENTAL TESTING.** Two credit hours. Study and analysis of individual mental testing techniques. Supervised experiences with Stanford and Bellevue-Wechsler Battery. A minimum of twelve individual examinations required. (Ed 137)
138. **STATISTICAL TECHNIQUES.** Two credit hours. Elementary statistical topics; organization and interpretation of group data; sampling; measures of relationship. (Ed 138)
139. **CLINICAL PSYCHOLOGY OF MUSIC.** Two credit hours. Principal applications of music to the diagnosis and treatment of personality disorders. Current thinking and practice in the field of musical therapy. (Ed 139)
142. **MENTAL HYGIENE.** Two credit hours. Social consequences of poor mental health. Consideration from a genetic point of view of factors contributing to mental health. (Ed 142)
151. **HISTORY AND SYSTEMS OF PSYCHOLOGY.** Two credit hours. A study of modern scientific psychology including its various schools and their backgrounds. Reading in a broad field of psychological theory required. (Ed 151)
152. **HISTORY AND SYSTEMS OF PSYCHOLOGY.** Two credit hours. A continuation of Ps 151. (Ed 152)
153. **PSYCHOLOGICAL EXPERIMENTS IN LEARNING.** Two credit hours. Repeating in the psychological laboratory some of the classic experiments. (Ed 153)
155. **DYNAMIC PSYCHOLOGY.** Two credit hours. Human motivation in the normal personality from the point of view of general psychology. (Ed 155)
156. **PSYCHOLOGY OF DELINQUENCY.** Two credit hours. A treatment of the types and causes of juvenile delinquency together with brief case histories. (Ed 156)
158. **SOCIAL PSYCHOLOGY.** Two credit hours. Social factors in the development of personality; interactions between the individual and the group. (Ed 158)
165. **PERSONNEL MANAGEMENT.** Three credit hours. (BA 165)
166. **PERSONNEL PROBLEMS.** Three credit hours. Prerequisite Ps 165. (BA 166)
169. **INDUSTRIAL PSYCHOLOGY.** Two or three credit hours. A review of the principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon

the human element in American industry. Lectures by plant and industrial psychologists. (BA 173.) Prerequisites: Ps 31. Given at Evening College.

170. **DIFFERENTIAL PSYCHOLOGY.** Two credit hours. The existence, extent and significance of individual differences in human traits. The role of heredity and environment in producing individual differences. Psychological analysis of sex, racial, national and other group differences.
173. **INDUSTRIAL PSYCHOLOGY.** Three credit hours. (BA 169)
175. **PERSONALITY PROBLEMS I.** Two credit hours. Maladjustments; behavior handicaps; aggressiveness; phobias; the intangibles of personality. (Ed 175)
176. **PERSONALITY PROBLEMS II.** Two credit hours. A continuation of Ps 175. (Ed 176)
177. **THEORIES OF PERSONALITY I.** Two credit hours. A psychological analysis and interpretation of human personality. Clinical and experimental methods of exploration. The structure and determinants of personality. Prerequisite: Pl 111.
178. **THEORIES OF PERSONALITY II.** Two credit hours. A continuation of Ps 177. Evaluation of the major current theories of personality.
180. **INTRODUCTION TO PROJECTIVE TECHNIQUES I.** Three credit hours. Introduction to Rorschach, T.A.T., Szondi, Maps, Bender-Gestalt, etc. Prerequisites: Ps 101, 102, 136, 137.
181. **INTRODUCTION TO PROJECTIVE TECHNIQUES II.** Three credit hours. Prerequisite: Ps 180.
199. **SENIOR COMPREHENSIVE REVIEW.** Two credit hours. A course of directed reading required of all majors in their senior year, leading to the comprehensive examination. An original research project may be substituted in special cases.

## **Sociology (So)**

*Staff:* FR. COOGAN, MR. GILLESPIE, FR. PRICKRIL, FR. SHIELDS, FR. WENZEL.

The Department of Sociology is administered by the Dean of the College of Arts and Sciences.

### *Lower Division Courses*

31. INTRODUCTION TO SOCIOLOGY. Three credit hours. A course in the foundational postulates of a science of society; evolution of social theory; psychological, ecological and cultural approaches to a study of man and social institutions; problems of race and population; sociological features and functions of the family; sociology of the state.
36. SOCIAL HYGIENE. Two credit hours.

### *Upper Division Courses*

103. PROBLEMS OF LABOR. Two or three credit hours. (Ec 103)
109. POLITICAL THOUGHT. Three credit hours. (Po 131)
110. POLITICAL THOUGHT. Three credit hours. (Po 132)
125. MARRIAGE. Two credit hours. Origin and history of marriage as a natural institution; Christian marriage; practical and intelligent approach to marriage; marriage regulation by church and state; marriage today and tomorrow.
126. THE FAMILY. Two credit hours. Origin and history of the family; the family in other cultures as compared with the Christian family; the family in the United States and in Latin America; the rich family life, happiest human group or institution; the family as a functional unit, as the best educational channel to democratic citizenship, and as the basis for sound society.
132. PERSONAL AND SOCIAL ETHICS. Three credit hours. (Pl 132)
170. CATHOLIC THOUGHT ON CONTEMPORARY SOCIAL PROBLEMS. Three credit hours. Secularized education and its social consequences. Communism, racism, industrial unrest, and population optimum, both quantitative and qualitative.
195. REBUILDING THE SOCIAL ORDER. Two credit hours. Rebuilding the social order; the Catholic social movement; the Papal social program; ineffective remedies; state and social reconstruction; practical programs of action. (Po 195)

### **Speech Arts (Ex)**

*Staff:* DR. WHEELER, *chairman*; FR. FLYNN, MR. KVAPIL,  
MR. MAUPIN.

### *Lower Division Courses*

1. PRINCIPLES OF SPEECH. Two credit hours. Required for graduation.

2. PRINCIPLES OF SPEECH. Two credit hours. Given at Milford College.
3. ADVANCED EFFECTIVE SPEECH. One or two credit hours. Given at Milford College.
4. ADVANCED EFFECTIVE SPEECH. One or two credit hours. A continuation of Ex 3. Given at Milford College.
31. PRINCIPLES OF DEBATE. Two credit hours.

*Upper Division Courses*

101. ACTING TECHNIQUE. Three credit hours. Pantomime, improvisation and general movement. Workshop in scenes, character development and make-up.
102. DIRECTING. Three credit hours. Techniques and principles. Workshop productions directed by students.
103. STAGECRAFT. Three credit hours. Scenic design, building of scenery, lighting, etc.
104. PLAY PRODUCTION. Three credit hours. Play selection, casting, rehearsals, business management, etc.
106. PLAYWRITING. Three credit hours. General principles in the development of plot, characters and dialogue.
110. PLAY PRODUCTION WORKSHOP. Three or four credit hours.
120. VOICE AND PHONETICS. Three credit hours. Vocal quality, articulation and phonetic symbols.
121. SPEECH THERAPY. Two credit hours. (Ed 121)
125. PUBLIC SPEAKING. Two credit hours. Preparation of formal addresses.
127. ORAL INTERPRETATION. Two or three credit hours. Dynamic oral reading by use of mind, voice, and body in interpreting the printed word.
130. BUSINESS COMMUNICATIONS. Two or three credit hours. Communication skills applied to business needs.
131. CONFERENCE LEADERSHIP. Two or three credit hours. Discussion and conference methods employed in professional and business meetings.
151. ADVANCED ACTING TECHNIQUES. Three credit hours.
152. ADVANCED DIRECTING. Three credit hours.

## Theology (Th)

*Staff:* FR. WENZEL, *chairman*; FR. DOWD, FR. T. FOLEY,  
FR. HOLLAND, FR. HERRIGAN, FR. HURTUBISE, FR. D.  
MCCARTHY, FR. PRICKRIL, FR. SHIELDS, FR. WHEELER.

*Assisted by:* FR. E. O'CONNOR, FR. RATTERMAN.

The four courses required of Catholic students (Th 40, 41, 42, 43) comprise what is known as the LeMoyne plan of college Theology. The characteristics of this plan are that it is Scriptural and Christological. The principle which gives unity to the courses is the truth that the essence of the "good news" of the Gospel is the new life which we have in God through Christ. Each particular theological truth will be studied in relation to this central fact.

In keeping with the religious purpose of the University, non-Catholic students are required to take Th 3 and 5. The content of these courses meets the need for religious instruction without the elements of controversy.

### UNDERGRADUATE DIVISION

#### *Lower Division Courses*

3. FOUNDATIONS OF NATURAL RELIGION. Two credit hours. An approach to religion in the light of reason. A survey of the history of religion emphasizing the principles of certitude, the existence of God, the nature of man, the necessity of religion, and moral responsibility. *Required of non-Catholic students.*
4. CHARACTER FORMATION. Two credit hours. A study of the nature of the will, principles, motives, proper choice and inculcation of ideals; habits—their making and unmaking—and case-records.
5. THE DESTINY OF MAN. Two credit hours. A study of man's free will, his immortal soul, and his consequent destiny, his happiness or punishment in the future life as these can be known in the light of reason. *Required of non-Catholic students.*
10. THE CHURCH. Two credit hours.
25. THE LIFE OF CHRIST. Two credit hours.
30. CREATION AND REDEMPTION. Two credit hours.

32. **THE SACRAMENTS.** Two credit hours.
40. **CHRIST IN THE GOSPELS.** Two credit hours. A study of the individual histories of the life of Christ in the four Gospels: their background, interpretation, credibility, and inspiration. The life of Christ is then studied as an organic whole, with special emphasis on Christ as Prophet, revealing Himself as the Divine Messiah, and as King, endowed with Divine authority and power, which He communicated to His Church. Required of Catholic students.
41. **CHRIST, OUR REDEEMER.** Two credit hours. The priesthood and sacrifice of Christ, studied in the Passion and the Holy Sacrifice of the Mass. A doctrinal study of the redemption and the resurrection of humanity in Christ, its Head, out of the death of sin into which Adam's disobedience had plunged it. Required of Catholic students.
42. **CHRIST IN HIS CHURCH.** Two credit hours. A study of the Mystical Body of Christ, His Church, as seen in the Acts of the Apostles and in the Epistles of St. Paul: considering both the external and internal life of the Church, dogmatic development as well as the hierarchical structure of the Church. Required of Catholic students.
43. **CHRIST IN THE CHRISTIAN SOUL.** Two credit hours. A more thorough consideration of the life and power of Christ as they exist in the individual lives of the members of the Mystical Body: the application and function of faith, justification, the life of grace, the theological and moral virtues, in relationship to the perfection of the individual. Required of Catholic students.

*Upper Division Courses*

115. **PROTESTANT CHURCHES IN THE UNITED STATES.** The historical background of the major Protestant denominations, a study of the doctrine, ritual, and organization of each sect, and a comparison of individual sects with one another and with the Catholic Church. The course is expositional rather than controversial. Its purpose is to give the student a better understanding of the various Protestant sects.
120. **SPIRITUAL EXERCISES OF SAINT IGNATIUS.** Three credit hours. A study of the ascetical exercises of Saint Ignatius of Loyola reflecting their historical backgrounds and effectiveness in the formation of mature Christianity.



128. **THEOLOGY OF THE SACRED HEART.** Three credit hours. To establish personal conviction of the centrality of devotion to the Sacred Heart in the life of a Christian, recent Papal documents—*Annum Sacrum*, *Misereantissimus Redemptor*, and *Haurietis Aquas*—will be studied. The foundation of this devotion in the Old and the New Testaments, the theology and history of acts of consecration and of reparation, and the devotion of Saint Margaret Mary to the Sacred Heart will be analyzed.
130. **FUNCTIONAL CATHOLICITY.** Two or three credit hours. This course aims at imparting to the student “a more intelligent possession of Christian truth, and a keener vision of the splendor of the Christian ideal of life, both personal and social, in order that the power of his Christian convictions and strength of character they have fashioned may equip him to fulfill his function of intellectual, moral, and spiritual leadership in the community that is his specific responsibility.”
140. **THE SUPERNATURAL LIFE OF MAN (THEOLOGY OF GRACE).** Three credit hours. A study of the supernatural destiny of man and the nature and process of justification. Special attention is devoted to sanctifying and actual grace; the theological virtues of faith, hope and charity; the gifts of the Holy Ghost. Chief means of preserving and developing supernatural life: prayer, sacraments and the holy sacrifice of the Mass are explained.
145. **THEOLOGY OF SAINT PAUL.** Three credit hours. An introduction to the principal ideas stressed by Saint Paul in his epistles. Through historical survey of man, his times and environment deeper insight to the significance of his key ideas is sought. Special attention is given to Christology, the Pauline concept of original sin and the process of justification, and the relationship between the old and new law.
150. **MORAL PRINCIPLES IN GUIDANCE.** Two or three credit hours. Principles of moral Theology as applied particularly in student guidance and counselling.
190. **INTRODUCTION TO THE BIBLE.** Two or three credit hours. An analysis of the background of Sacred Scripture. Principles of understanding and interpretation of both the Old and the New Testament. A survey reading of the Scripture.

## Christian Culture

All candidates for a degree in residence for eight semesters must have completed four of the courses listed below.

- Bl 194. THEORY OF EVOLUTION. Two credit hours.
- Ec 187. PHILOSOPHY OF COMMUNISM. Two credit hours.
- Ec 189. CHRISTIAN THEORY OF ECONOMICS. Two credit hours.
- En 137. WORLD LITERATURE. Three credit hours.
- En 138. THE OLD TESTAMENT. Two credit hours.
- En 139. THE NEW TESTAMENT. Two credit hours.
- En 188. CATHOLIC LITERATURE. Two or three credit hours.
- En 189. CATHOLIC LITERATURE. Two or three credit hours. A continuation of En 188.
- En 190. NEWMAN. *The Idea of a University*. Two or three credit hours.
- En 192. CHESTERTON. Two credit hours.
- En 193. MODERN CATHOLIC PROSE. Two or three credit hours.
- FA 3. INTRODUCTION TO MUSIC. Two credit hours.
- FA 4. INTRODUCTION TO MUSIC. Two credit hours. A continuation of FA 3.
- FA 13. INTRODUCTION TO ART. Two credit hours.
- Fr 181. CONTEMPORARY CATHOLIC WRITERS IN FRANCE. Three credit hours.
- Gr 110. MEDIEVAL GERMAN LITERATURE. Three credit hours.
- Hs 111. THE EARLY MIDDLE AGES, 300-1154. Three credit hours.
- Hs 112. THE LATE MIDDLE AGES, 1154-1496. Three credit hours.
- Hs 119. RENAISSANCE AND HUMANISM. Three credit hours.
- Hs 121. RELIGIOUS UPHEAVAL OF THE SIXTEENTH CENTURY. Three credit hours.

- Hs 149. THE CATHOLIC CHURCH IN THE UNITED STATES. Three credit hours.
- Lt 122. INTRODUCTION TO A STUDY OF THE LATIN FATHERS. Three or four credit hours.
- Lt 135. EARLY CHRISTIAN POETS. Three credit hours.
- Pl 106. NATURAL THEOLOGY. Two credit hours.
- Pl 132. PERSONAL AND SOCIAL ETHICS. Three credit hours. Required of all degree students as Christian Culture.
- Pl 144. ETHICAL FOUNDATIONS OF POLITICS. Three credit hours. (Po 144)
- So 125. MARRIAGE. Two credit hours.
- So 126. THE FAMILY. Two credit hours.
- So 195. REBUILDING THE SOCIAL ORDER. Two credit hours
- Sp 150. NOVELA DEL SIGLO DE ORO. Three credit hours.
- Sp 155. TEATRO DEL SIGLO DE ORO. Three credit hours.
- Th All *upper division* courses.

## Graduate School

Throughout the academic year as well as the summer sessions, graduate courses are offered in business administration, chemistry, classical languages, education, English, history, mathematics, and philosophy. The Graduate School is open to men and women.

The Graduate Council encourages the registration of both *special students* and *degree students*. *Special students*, with the approval of the head of the department concerned, register for individual courses which they may pursue with profit, without regard to degree requirements. *Degree students* register with the express intention of following a program leading to a graduate degree.

### THE MASTER OF ARTS

Xavier University offers programs leading to the degree of Master of Arts in classics, English, history and political science, and philosophy.

In the Master of Arts programs great emphasis is laid upon cultural and liberal pursuits. Yet, since Xavier's undergraduate program—the norm of admission for graduate students—calls for a broad background of general education, philosophy, and Christian Culture, the final goal of the Master of Arts programs is that the student may come to possess a specialized knowledge of his chosen field, and an intelligent appreciation of its place in the wide panorama of human thought.

The Master of Arts is awarded to the candidate who has demonstrated a capacity for further study or teaching by satisfactorily completing a program of graduate work designed to give him these characteristics:

1. An understanding of the relations of his subject to allied subjects and to the synthesis of Christian Culture, which is the basis of Western civilization.
2. A comprehensive knowledge of the broad field of learning in which the degree is conferred.
3. A specialized knowledge of a portion of that field.
4. Proven ability to do research in the special field of study.

#### General Requirements

In accordance with the above objectives the general requirements for the degrees are respectively:

1. Completion of such undergraduate prerequisites as will give assurance of the candidate's general educational background. Satisfactory completion of the Miller Analogies Test.
2. A reading knowledge of a foreign language.
3. Completion of a program consisting of at least twenty-four hours of integrated classroom study within the student's chosen field.
4. Production of an acceptable thesis of a research character. To safeguard the cultural objectives it should be kept in mind that the result of research can be synthesis as well as analysis. For the thesis six credit hours (completing the required thirty hours) will be awarded on the recommendation of the thesis adviser. Three typed copies of the thesis are to be submitted after it is formally approved.
5. Completion of a final oral, comprehensive examination.

### **Departmental Requirements**

Within the general requirements for the Master of Arts, graduate departments administering programs may add specific regulations. Candidates for these degrees are urged to maintain close relationship with the chairmen of their particular departments.

## **THE MASTER OF SCIENCE—CHEMISTRY**

The program of studies leading to the degree of Master of Science in chemistry is organized to meet the five general requirements specified for the degree of Master of Arts.

Offerings in chemistry are planned in a cycle so that the employed part-time graduate student has the same opportunity to complete requirements as the full-time one, though at a slower pace. Basic graduate courses, offered each semester from 7 to 9 on Tuesday and Thursday evenings, include Advanced Organic, Advanced Inorganic, Advanced Quantitative, and Advanced Physical Chemistry. Other credits may also be earned in the evenings and on Saturday mornings. The evening program can be integrated with summer school offerings for more rapid progress since one of the four basic courses is offered each summer. The degree may also be earned by attendance at summer sessions only.

### **Prerequisites**

Fully qualified students for the Master's program must hold a Bachelor's degree with a major in chemistry, including eight to ten hours of physics, and mathematics through calculus.

## THE MASTER OF SCIENCE—MATHEMATICS

The program of studies leading to a Master of Science in mathematics is designed for teachers and for people working in applied mathematics who wish to increase their background in pure and applied mathematics. Full-time graduate students may earn the Master's degree in one year; an employed part-time graduate student may take one or two courses a semester, depending upon the time available for attendance and study.

Courses are offered on the Evanston campus in the evenings during the fall and spring semesters and in the mornings in the first summer session. Evening courses that cover all the basic areas of pure and applied mathematics will be offered in a two-year cycle.

For those who cannot attend during the academic year, requirements for the degree may be completed during summer sessions. Courses will be offered in a five-summer cycle, and will cover material useful in teaching mathematics in high school or college.

Basic courses, such as Functions of a Real Variable, Theory of Integration, Theory of Complex Variable, Modern Algebra, and General Topology will be offered every two years. Other courses, such as Fourier Series, Operational Mathematics, Tensor Analysis, Differential Geometry, Calculus of Variation, Integral Equations, Probability, and Mathematical Statistics will be offered according to the demand.

### Prerequisites

Sufficient undergraduate courses in mathematics must have been taken to give assurance of the mathematical maturity required for graduate study in mathematics. The Chairman of the Mathematics Department should be consulted before one registers for the program.

If a graduate student does not have twelve undergraduate credit hours in philosophy, he must take the three-credit hour course, PI 150: Philosophical Thinking, before receiving his Master's degree. This course may not be included in the graduate hours required for the Master's degree.

### Requirements

Students may elect to fulfill requirements for the degree of Master of Science in mathematics under either Plan A or Plan B. Both plans require thirty semester hours of graduate credit.

Plan A: Twenty-four semester hours of class work, six semester hours awarded upon completion of an acceptable thesis, demonstration of a reading knowledge of a foreign language, and a final oral comprehensive examination.

Plan B: Thirty semester hours of class work, a research paper, and a final written comprehensive examination.

When a student makes his application for candidacy, he must elect either Plan A or Plan B and submit a program of courses which he will offer for the degree. The program must contain at least six hours from Mt 250, 251, 252, 253. Also, one half of the courses offered for his degree must be at the 200 level. After being accepted for candidacy, the student will be assigned an adviser. Any changes in his program must be approved by his adviser.

If a student elects Plan A:

- a. He may not change from Plan A to Plan B after having completed eighteen hours of course work.
- b. He should select an area for his thesis and, with his adviser, a particular topic at least six months before he expects to graduate.
- c. He must have passed his foreign language examination before taking the comprehensive examination.
- d. His thesis must be completed and three copies submitted six weeks before the date of graduation.
- d. He must take an oral comprehensive examination at least four weeks before graduation.

If a student elects Plan B:

- a. He should consult his adviser about a topic for his research paper in sufficient time so that two approved copies are submitted before his comprehensive examination.
- b. He must take the written comprehensive examination that will be given four weeks before the date of graduation.

In either Plan A or Plan B, six of the thirty hours required for the degree may be taken in a cognate field.

## THE MASTER OF EDUCATION

The degree of Master of Education, a professional degree, is designed to meet the needs of teachers and school administrators actually engaged in school work. It has one basic aim: stimulating better teaching wherever the influence of the successful candidate may extend, whether it be in an individual classroom, an entire school, or a whole school system.

Accordingly, this degree is awarded to the candidate who has demonstrated a capacity for improving the quality of teaching within

the particular sphere of his influence by satisfactorily completing a program of graduate work designed to give him these characteristics:

1. Broad knowledge of the principles and techniques of education in modern society.
2. Specific knowledge of one major area of the field of education.
3. Essential understandings and skills necessary for intelligent consumption of educational research.

### **General Requirements**

Requirements for the degree of Master of Education are specified with certain basic considerations in mind:

1. Sufficient flexibility is necessary to care adequately for the particular needs of the in-service educator who enrolls for the degree.
2. Before students are accepted as candidates for this degree, they must demonstrate a basic knowledge of the general field of education as generally required of undergraduates planning to teach.
3. Graduate programs must be so planned as to insure the student's attaining a comprehensive knowledge of professional theory and practice in the principal areas of the field; a detailed knowledge of at least one major area of specialization—for high school teachers this area may be an appropriate academic field; and capability in the skills and knowledge necessary for intelligent comprehension and use of educational research.

### **Prerequisites**

Students electing graduate work leading to the degree of Master of Education must present undergraduate courses in education totaling at least twelve semester hours.

### **Program**

To insure comprehensiveness in their programs for the degree of Master of Education, all candidates must include in their programs each of four general survey courses designed, in their whole, to provide integrated coverage of the broad field of education. These courses are:

- Ed. 201. Philosophy of Education.
- Ed. 203. Educational Psychology.
- Ed. 205. Educational Administration.
- Ed. 207. Education Research.



To insure their mastery of a particular area of education, all candidates must include in their programs a concentration of at least twelve credit hours in one of the following *areas of concentration*:

#### *Administration*

A concentration in Administration must include Ed 241: Administration of the Elementary School, Ed 242: Administration of the Secondary School, Ed 243: Supervision of Instruction, and either Ed 211: Elementary Curriculum or Ed 221: Secondary Curriculum. To complete at least twelve hours of concentration, students may select such courses as Ed 231, 232, 233, 253, 263, 265, 272, 275, or 277.

The required courses listed above satisfy State of Ohio requirements for all administrative certificates except *Supervisory*, for which the student must include both Ed 211 and 221, and *Superintendent*, for which he must complete Ed 211, 221, 275, 277, and any four hours of the following: Ed 212, 222, 231, 232, 233, 253, 272, or P1 150.

#### *Guidance*

A concentration in Guidance is designed to prepare the student for counselling or school psychologist work. Proper selection of courses will also help the student prepare for personnel work in industry or in the armed services. Students must include Ed 231: Psychological and Achievement Testing and Ed 233: Counselling Principles and Techniques. To complete twelve hours of concentration, he may choose from any of the psychology courses (abnormal, dynamic, social, adolescent, etc.), Individual Mental Testing, Remedial Reading Techniques, Laboratory in Guidance, etc.

#### *Elementary and Secondary Education*

Concentrations in these areas may include courses in current problems, administration, and curriculum at the particular level. Work in remedial reading, child or adolescent psychology, basic skills, and audio-visual aids may also be selected as appropriate. Students whose interest lies in teaching at the secondary level should consider carefully whether their needs would be better served by work in a subject matter area rather than in the more professional courses in secondary education.

#### *Business, Chemistry, English, History, Political Science, Classics, Philosophy, Mathematics*

Concentrations in the subjects listed above, in which the University offers Masters' degrees, are always available. For the prospective college teacher, the Master's degree in a subject area is usually necessary. For the teacher at other levels, especially at the high school level, there is much to recommend the Master of Education with a concentration in a subject area. The teacher deepens his knowledge of the broad field of professional education through the

surveys, and may elect up to eighteen hours (or two-thirds of the class requirements) of the Master of Arts, Master of Science, or Master of Business Administration in his subject. He may do this even though he does not meet the subject matter prerequisites for the other degrees. His course selections may be at either the strictly graduate level (200 series) or the advanced undergraduate-graduate level (100 series).

#### *Communication Arts*

Students may include such summer courses as Ed 272: School Public Relations, Ed 270: Audio-Visual Aids, Ed 285: Workshop in School Public Relations, En 101: Advanced Writing, En 102: Journalistic Writing, or appropriate speech courses. By special arrangement with the Radio-TV Department, College-Conservatory of Music of Cincinnati, up to twelve graduate credits from that institution may be accepted towards this concentration.

#### *Biology (Summers)*

For teachers of biology a concentration is offered in the following three hour courses, one of which is offered each summer for those who have had lower division work in biology: Bl 184: Advanced Biology of Man, Bl 185: Advanced Zoology, Bl 186: Advanced Botany, and Bl 187: Advanced Biological Principles. Those interested in this concentration should register for one of the required surveys in education and for the biology course being offered.

#### *Modern Languages (Summers)*

Advanced *upper division* courses in French, German, and Spanish are regularly offered in the Summer Sessions to allow students to complete a concentration in one of these languages.

#### *Theology (Summers)*

Theology is becoming an increasingly popular area of concentration, especially for religious teachers. Each summer Xavier offers at least two courses applicable to this concentration, courses such as The Unity and Trinity of God, Thomistic Foundations of Modern Apologetics, Theology of Grace, Spiritual Exercises of Saint Ignatius, etc.

Students electing graduate courses which they plan to submit in fulfillment of requirements for the degree of Master of Education, must have their programs approved by the Chairman of the Department of Education in advance of their registration for courses if they are to be assured of the appropriateness of their selection.

#### **Quantitative Requirements**

A minimum of thirty hours is required for the degree of Master of Education. These shall be distributed as follows:

1. General surveys in education, twelve credit hours.
2. Concentration, twelve credit hours.
3. Pertinent electives, six credit hours.

### **Qualitative Requirements**

The degree of Master of Education will be awarded only to candidates who have passed an extensive written examination on the general field of education as covered by the four survey courses and the individual's area of concentration.

### **THE MASTER OF BUSINESS ADMINISTRATION**

The degree of Master of Business Administration is a professional degree designed to meet the needs of persons in industry for training which will ready them for increasing executive responsibilities.

Accordingly this degree is awarded to the candidate who has demonstrated capacity for leadership in the field of business by satisfactorily completing a graduate program designed to give him the following characteristics:

1. Broad knowledge of the principles and techniques of business administration.
2. Specific knowledge of one of the major phases of business administration.
3. Essential understandings and skills necessary for intelligent consumption of research in the fields of business.

### **Prerequisites**

Students may be admitted to graduate work in business administration on either of the two following bases:

1. Undergraduate degree which includes at least thirty hours of study in business subjects including Principles of Accounting, six credit hours, and Principles of Economics, six credit hours.
2. Undergraduate degree, at least two full years of experience in business, and courses in Principles of Accounting, six credit hours, and Principles of Economics, six credit hours.

Deficiencies in these two requirements may be removed by completing BA 200a: Basic Accounting, and BA 200b: Basic Economics, special courses covering these areas in four credit hours each.

## Program

To insure comprehensiveness in their programs for the degree of Master of Business Administration, all candidates must include in their programs each of four general survey courses designed in their whole to provide integrated coverage of the broad business field. These courses are:

BA 201. ECONOMICS OF BUSINESS. Three credit hours.

BA 202. RESEARCH IN BUSINESS. Three credit hours.

BA 203. MANAGERIAL ACCOUNTING. Three credit hours.

BA 204. ADMINISTRATIVE OPERATION. Three credit hours.

To insure their mastery of a particular area of business administration, candidates will ordinarily include in their programs a concentration of at least nine credit hours in one of the following *areas of concentration*:

*Accounting* (Advanced Accounting Problems, Industrial Accounting, Taxation, Systems, Auditing Principles, etc.)

*Personnel* (Collective Bargaining, Problems of Labor, Labor Legislation, Labor Economics, Personnel Management Problems, Industrial Psychology, Counselling Principles and Techniques, Psychological and Achievement Testing, Abnormal Psychology, Mental Hygiene, etc.)

*Management* (Production Management, Time and Motion Study, Production and Quality Control, Executive Practices, Problems in Business Finance, Applied Economic Analysis, Small Business Operations, Office Management, etc.)

*Marketing* (Principles, Market Research, Marketing and Sales Analysis, Retail Merchandising, Advertising, etc.)

*Transportation and Traffic* (Principles, Rates and Tariffs, Interstate Commerce Law, etc.)

*Advanced Business Economics* (Applied Economic Analysis, Location of Business and Industrial Activity, Problems in Business Finance, Investments, Business Cycles, etc.)

*Hospital Administration* (Hospital Personnel Administration, Financial Management, Organization and Management, Procurement and Purchasing, Effective Communications, Human Relations, etc.)

As a climax to his program, the candidate must include the conference-type seminar, BA 299, which assists him to marshal his knowledge of the business field in the solution of specific problems.

### **Quantitative Requirements**

A minimum of thirty graduate hours is required for the degree of Master of Business Administration. These shall ordinarily be distributed as follows:

1. Twelve credit hours in the four general surveys.
2. At least nine credit hours in the area of concentration.
3. BA 299; Seminar: Business Administration Problems, three credit hours.
4. The remainder, electives.

### **Qualitative Requirements**

The degree of Master of Business Administration will be awarded only to candidates who have passed a written comprehensive examination on the general field as covered by the four survey courses and the individual's area of concentration.

## **GENERAL REGULATIONS**

### **Admission**

Application for admission to graduate studies is made in form. Application forms can be had on request. Applications should be followed promptly by a transcript of applicant's credits.

Students electing graduate work leading to a master's degree must present evidence of having a bachelor's degree from an accredited institution, and also present official transcripts of his record from each college in which credit was obtained. Others will be registered conditionally.

An applicant with a bachelor's degree from a non-accredited institution is not admitted to full graduate standing until he has successfully completed at least six hours of graduate work with the required grades, and has been accepted by the department which controls his program.

Since graduate work is work done under direction, the Chairman of the Department of the student's major subject must decide on the student's preparation for graduate study in that department; and the or one appointed by him, will be the student's adviser throughout. The general prerequisites for graduate work in any department must be the equivalent of an undergraduate major at Xavier University.

Seniors of satisfactory academic standing who are within nine hours of completing their undergraduate requirements for the

bachelor's degree may, in their last semester, register for graduate work.

### **Miller Analogies Test**

All applicants for admission to the Graduate School will be required to take the Miller Analogies Test at Xavier University, or to bring with them an official report of their scores. Scores will aid the faculty in the guidance of the student.

### **Candidacy**

Candidacy shall begin when, after the student's completion of six hours of graduate work, his application shall have been passed by the graduate council. Every student must make such application after completing six hours of work at Xavier and those thought unfit will be advised to discontinue their course.

No more than five years may elapse between candidacy and completion of work for the degree.

A student who attends only summer sessions may be granted a graduate degree provided he is engaged in work related to his major subject. This supposes that no more than five years shall elapse between his candidacy and the completion of his work.

### **Requirements**

Thirty semester hours of graduate work will be demanded of an applicant for any of the above degrees. In the case of applicants for a Master of Arts or Master of Science degree, twenty-four hours of such work will be devoted to fulfilling the course requirements and six hours to fulfilling the thesis requirement. Applicants for the Master of Education or Master of Business Administration degrees will devote the thirty hours to course requirements, as will applicants for the Master of Science in mathematics under Plan B.

Students will be allowed to transfer no more than six graduate credits from other institutions, provided such work was not taken in an extension center.

For degrees requiring a thesis, familiarity with at least one foreign language is required for cultural background and use in research.

Distribution of the course requirements must be approved by the Chairman of the Department of the major subject. At least one-half of the courses taken must be fulfilled in that department. Candidates, however, for the Master of Arts and Master of Science degrees are advised to take all their work in their major department.

Character of the courses required is subject to the decision of the adviser. At least one-half the hours of credit in the major subject and one-half the total number of hours toward the degree must be obtained in courses numbered 200 or above, which are distinctly graduate courses.

### **Examinations and Marking**

The candidates for graduate degrees shall be required to pass an oral examination. It shall be the policy of the Graduate School to give these examinations within three weeks of the end of the final semester. The head of the major department or one appointed by him shall be chairman of the examining committee and shall be responsible for the giving of the examination. The student must pass such other oral or written examinations as are required by his major department. A written examination may be required by the Departments of Education and Business instead of the final oral.

The matter for the examination shall be based primarily on the student's courses and, if he is a candidate for the Master of Arts or Master of Science degree, on his thesis. It is understood, however, that a candidate's general knowledge of his field must be found satisfactory by his examiners.

The thesis required for the Master of Arts or Master of Science degree should embody the results of the applicant's research in some problem of his major subject, and must at each stage be under the direction of the Chairman of the Department of that subject or of one appointed by him.

The student must submit three typed copies of his thesis after it has been formally approved.

The following symbols are used in the evaluation of course work: A — indicative not only of high achievement, but also of an unusual degree of intellectual ability and initiative; B — above average attainment; C — work of minimum or average attainment; D — inferior, no graduate credit; F — failure. To obtain credit graduate students must do work of B quality in courses numbered 100 to 199, and of C quality in courses numbered 200 or higher.

### **Scholarships: Graduate School**

Xavier University annually offers scholarships in the eight departments in which graduate programs are offered. These departments are business administration, classics, chemistry, education, English, history and political science, mathematics, and philosophy. Two scholarships may be awarded in each department by the Graduate Scholarship Committee on recommendation of the Chairman of the Department concerned. Scholarships will be awarded only to those who have demonstrated real academic excellence in their

undergraduate work. Scholarships cover tuition only and are valued at \$450.00 each.

Awards will be subject to the following requirements and procedures:

1. Scholarships will be awarded only to students prepared to do full-time graduate study with the exception that partial scholarships may be awarded in classics.
2. Only students who meet fully departmental requirements as outlined in the University Catalogue should apply.
3. Applications should be made by letter addressed to the Dean of the Graduate School, Xavier University.
4. Transcripts of all previous college work should be forwarded to the Dean of the Graduate School (one from each college attended).
5. At least two letters from educators who can evaluate the academic qualifications of the applicant should be forwarded directly to the Dean of the Graduate School by the writers.
6. Applications, letters, and transcripts for scholarships must be in the Graduate Office not later than April 1 and applicants will be notified of the decision of the Graduate Scholarship Committee during May of the academic year prior to the award.

### **Assistantships**

A limited number of graduate assistantships are awarded annually in the departments of chemistry and history. These assistantships are valued at about \$1,500.00 per academic year.

Assistants are expected to devote half-time to graduate studies and half-time to service in the department.

Letters of application should be addressed to the Chairman of the Department concerned. A complete transcript of the applicant's undergraduate record and letters of recommendation from the chairman of the applicant's undergraduate department and one other professor should be sent directly to the Chairman of the Department concerned at Xavier University.

All letters of application, recommendation, and transcripts should be in the hands of the chairman concerned not later than April 1, and successful applicants will be notified during May by the chairman concerned.

### **Proctorships**

Male graduate students may apply for a limited number of proctorships in the University's residence halls. Remuneration for specific student supervisory services approximates the cost of a room



on campus. Application should be made directly to the Director of Student Housing.

### **Lichter Foundation Loan Fund**

Graduate students are eligible to participate in the Lichter Foundation Loan Fund after their first semester of residence. Amounts are determined by the Committee on Scholarships on an individual basis. Application should be made to the Chairman of the Scholarship Committee.

### **Tuition and Fees**

Matriculation (payable once—degree students only) . . . .	\$10.00
Tuition (per credit hour—graduate) . . . . .	17.50
Science fee (per course per semester) . . . . .	10.00
Science deposit (per course per semester—partially refundable) . . . . .	10.00
Laboratory materials deposit for science thesis (per semester—partially refundable) . . . . .	20.00
Miller Analogies Test . . . . .	3.00
Binding of thesis . . . . .	3.00
Graduation fee . . . . .	25.00

### **Contingent Fees**

Special Examination . . . . .	2.00
Duplicate Transcript . . . . .	1.00

All accounts must be settled on the day of registration. Attendance at classes will not be permitted until financial arrangements have been made with the bursar.

A \$3.00 service charge will be added to all accounts over \$140.00, and a \$1.00 service charge will be added to all other accounts.

This service charge will be deducted if full payment is made within one month of the first day of class in a given semester.

### **Withdrawal**

Withdrawal from a course should be reported at once to the Dean of Graduate School by the student, in person or in writing. The date on which a withdrawal is reported to the Graduate Office by the student is the date used to determine possible refunds of tuition.

### **Refunds**

See Refunds, page 66.

# Chronicle

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## Presidents

<i>Year</i>	<i>President</i>	<i>Year</i>	<i>President</i>
1831-34	Rev. James I. Mullan.	1881-84	Rev. John I. Coghlan, S.J.
1834-40	Most Rev. John Baptist Purcell.	1884-85	Rev. Henry Moeller, S.J.
1840-47	Rev. J. A. Elet, S.J.	1885-87	Rev. Edward A. Higgins, S.J.
1847-48	Rev. J. E. Blox, S.J.	1887-93	Rev. Henry Schapman, S.J.
1848-51	Rev. J. De Blieck, S.J.	1893-96	Rev. A. J. Burrowes, S.J.
1851-53	Rev. George A. Carrell, S.J.	1896-1900	Rev. Michael J. O'Connor, S.J.
1853-56	Rev. I. Boudreaux, S.J.	1900-07	Rev. Albert A. Dierckes, S.J.
1856-61	Rev. M. Oakley, S.J.	1907-11	Rev. Joseph Grimmelsman, S.J.
1861-65	Rev. John Schultz, S.J.	1911-16	Rev. Francis Heiermann, S.J.
1865-69	Rev. W. H. Hill, S.J.	1916-22	Rev. James McCabe, S.J.
1869-71	Rev. Thomas O'Neil, S.J.	1922-30	Rev. Hubert F. Brockman, S.J.
1871-74	Rev. Leopold Bushart, S.J.	1930-34	Rev. Hugo F. Sloctemyer, S.J.
1874-78	Rev. Edward A. Higgins, S.J.	1934-40	Rev. Dennis F. Burns, S.J.
1878-79	Rev. Thomas O'Neil, S.J.	1940-49	Rev. Celestin J. Steiner, S.J.
1879-81	Rev. R. J. Meyer, S.J.	1949-55	Rev. James F. Maguire, S.J.
	1955-		Rev. Paul L. O'Connor, S.J.

### Intercollegiate Latin Contest, 1958

Wayne L. Fehr, First Place  
Edwin P. Menes, Fifth Place  
Conrad Donakowski, Sixth Place

### Intercollegiate English Essay Contest, 1958

Alvin Francis Luersen, Tie, Tenth Place

### The Washington Oratorical Medal, Gift of The Alumni Association, 1958

James William Wiggs, Jr.

### The Verkamp Debate Medal, Founded by Joseph B. Verkamp, '77, 1958

Daniel V. Brislane

## Summary of Enrollment

1957 - 1958

Regular Session	Men	Women	Total
GRADUATE SCHOOL . . . . .	1124	161	1285
COLLEGE OF ARTS AND SCIENCES, EVANSTON			
Seniors . . . . .	369	0	369
Juniors . . . . .	329	0	329
Sophomores . . . . .	389	0	389
Freshmen . . . . .	651	0	651
Unclassified . . . . .	7	7	14
	<hr/>	<hr/>	<hr/>
Total . . . . .	1745	7	1752
COLLEGE OF ARTS AND SCIENCES, MILFORD			
Seniors . . . . .	24	0	24
Juniors . . . . .	24	0	24
Sophomores . . . . .	40	0	40
Freshmen . . . . .	55	0	55
	<hr/>	<hr/>	<hr/>
Total . . . . .	143	0	143
EVENING COLLEGE . . . . .	920	447	1367
 Summer Session, 1957			
GRADUATE SCHOOL . . . . .	245	241	486
COLLEGE OF ARTS AND SCIENCES, EVANSTON . . . . .	567	55	622
COLLEGE OF ARTS AND SCIENCES, MILFORD . . . . .	92	0	92
	<hr/>	<hr/>	<hr/>
Total . . . . .	904	296	1200
Grand Total . . . . .	4836	911	5747
	<hr/>	<hr/>	<hr/>
Duplications . . . . .	832	27	859
	<hr/>	<hr/>	<hr/>
Net Total . . . . .	4004	884	4888

## Enrollment by States and Foreign Countries 1957 - 1958

Alabama . . . . .	3
Arizona . . . . .	1
California . . . . .	2
Colorado . . . . .	1
Connecticut . . . . .	6
Florida . . . . .	13
Georgia . . . . .	1
Illinois . . . . .	209
Indiana . . . . .	138
Iowa . . . . .	2
Kentucky . . . . .	536
Louisiana . . . . .	5
Maryland . . . . .	5
Massachusetts . . . . .	5
Michigan . . . . .	91
Minnesota . . . . .	3
Missouri . . . . .	4
Nebraska . . . . .	2
New Jersey . . . . .	6
New Mexico . . . . .	1
New York . . . . .	37
North Carolina . . . . .	2
Ohio . . . . .	3723
Oklahoma . . . . .	2
Oregon . . . . .	1
Pennsylvania . . . . .	34
Rhode Island . . . . .	1
Tennessee . . . . .	13
Utah . . . . .	1
Virginia . . . . .	4
Washington, D. C. . . . .	5
West Virginia . . . . .	15
Wisconsin . . . . .	6
Africa . . . . .	3
Canada . . . . .	1
China . . . . .	2
Japan . . . . .	1
Korea . . . . .	1
Puerto Rico . . . . .	2
<b>Total . . . . .</b>	<b>4888</b>

# Commencement, June 4, 1958

## The Order of Exercises

Procession . . . . .	Reverend Patrick H. Ratterman, S.J., Marshal
Star Spangled Banner . . . . .	Audience
Invocation . . . . .	Very Reverend Paul L. Allen, S.J.
Valedictory . . . . .	James William Wiggs, Jr.
Commencement Address . . . . .	Reverend Edward B. Rooney, S.J.
Military Honors	
Military Commissions	
Conferring of Degrees . . . . .	Very Reverend Paul L. O'Connor, S.J.
Remarks . . . . .	Most Reverend Karl J. Alter, D.D., LL.D.
Xavier for Aye	
Recession	

## Awards

### The Evening College

RUSSELL J. WALKER, *Dean*

(Presented at Honors Convocation, May 24, 1958)

The Kappa Sigma Mu Scholarship Award (First Prize) . . . . .	Imelda J. Anneken
The Kappa Sigma Mu Scholarship Award (Second Prize) . . . . .	Norman A. Schrage
The J. D. Cloud Accounting Award . . . . .	Jerold J. Berhiet
The John T. Nolan, Jr., Catholic Literature Award . . . . .	Grace E. Rogan
The Xavier University Alumnae Association Scholarship Award . . . . .	Betty A. Dreyer
The Accounting Award of the Cincinnati Chapter, American Society of Women Accountants . . . . .	Lois Moliqne
The Cincinnati Industrial Advertisers Award . . . . .	Jerry H. Richter
The Cincinnati Traffic Club Scholarship Award . . . . .	Ronald A. Stahl

**The College of Liberal Arts at Evanston**

REV. HENRY J. WIRTEBERGER, S.J., *Dean*

(Presented at Honors Convocation, May 6, 1958)

The German Award, gift of German Citizens League . . . . .	John Emmet Gerstle, Jr.
The Colonel Charles F. Williams Military Scholarship and Award . . . . .	George Conrad Haas
The Institute of Hispanic Culture Achievement Award . . . . .	Stephen Aloysius Krupa, Jr.
The Ragland Latin Medal, in memory of Alice D. Ragland . . . . .	Wayne LeRoy Fehr
The Verkamp Debate Medal, founded by Joseph B. Verkamp, '77 . . . . .	Daniel Vincent Brislane
The Washington Oratorical Medal, gift of the Alumni Association . . . . .	James William Wiggs, Jr.
Tau Kappa Alpha National Honorary Speech Fraternity Key . . . . .	{ Conrad Louis Donakowski James William Wiggs, Jr.
The Alumnae English Award, gift of the Alumnae Association . . . . .	Alvin Francis Luersen
The Athenaeum Prize Keys . . . . .	{ James William Wiggs, Jr. Thomas Michael Gannon, S.J.
The Dorst Chemistry Key . . . . .	John Walter Connolly
The American Institute of Chemists Medal, awarded by Ohio Chapter . . . . .	Bernard Francis Losekamp
The Biology Key, in memory of Dr. James T. Clear . . . . .	Kenneth Norbert Hehman
The Ervin A. Stadler Accounting Award . . . . .	William Lawrence Lamey, Jr.
French Consulate Alliance Francaise Award . . . . .	Harry Armon Blair
The Mermaid Tavern Prize Key, gift of Anthony C. Elsaesser . . . . .	Edwin Peter Menes
The Archbishop McNicholas Philosophy Medal . . . . .	Ronald John Coffey
The Martin G. Dumler Philosophy Key . . . . .	Richard Justin Valleau
The Alpha Sigma Nu Religion Key . . . . .	Thomas Ashford Kuhlman
The David Snyder Religion Medal, founded by Mr. and Mrs. John W. Snyder . . . . .	Edward Bernard Blau
The Religion Key, gift of the Xavier University Sodality . . . . .	James Oscar Grote
The American Marketing Association Award, Cincinnati Chapter . . . . .	Paul Sylvester Reineremann, Jr.
The Shillito Internship Award, John Shillito Company . . . . .	{ Gerald Carl VonderMeulen Thomas James Henry

**Alpha Sigma Nu—National Jesuit Honor Society**

James Patrick Bradley  
Michael Joseph Colacurcio  
Conrad Louis Donakowski

Thomas J. P. Eckstein  
Wayne LeRoy Fehr  
Kenneth Joseph Schneider  
Joseph Peter Viviano

**MILITARY HONORS AND COMMISSIONS**

LIEUTENANT COLONEL DONALD H. CONNOLLY, JR., U.S.A.

**Distinguished Military Graduates**

William Odis Bertelsman  
Ronald John Coffey  
John Leo Donovan  
Russell Michael Giesler  
Thomas Arthur Gilligan  
William Mark Gillon

Thomas Donald Kellner  
Thomas Joseph Krebs  
Bernard Francis Losekamp  
William Joseph McCluskey  
George Donald Molinsky  
George Cajetan Stepanic

Richard Carl Wallace

**Commission as Second Lieutenant, Regular Army, Artillery**

June 15, 1957

John Cornelius Dacey

**Commission as Second Lieutenant, U.S.A.R., Quartermaster Corps**

September 18, 1957

Patrick Alcock Gilligan

**Commission as Second Lieutenant, Regular Army, Signal Corps**

April 22, 1958

James John Steinbach

**Commission as Second Lieutenant, U.S.A.R., Chemical Corps**

January 18, 1958

Thomas James Henry

**Commissions as Second Lieutenant, U.S.A.R., Artillery**

July 26, 1957

James Edward Dehan

August 1, 1957

Lawrence Vincent Drahman

September 10, 1957

H. Edward Egbers  
Richard Paul Jennings  
Joseph Herman Jorling, Jr.

Charles Nunzio Mazza  
Gerald Edward Meyer  
John William Wintz

September 18, 1957  
John Charles Van Flandern

June 4, 1958

Robert Henry Bachman  
William Odis Bertelsman  
William Bruce Blaes  
Walter John Brouder, Jr.  
August Martin Cianciolo  
Ronald John Coffey  
Daniel Jude Coletta  
Michael David Diver  
John Leo Donovan  
James Timothy Dunn  
Russell Michael Giesler  
Thomas Arthur Gilligan  
William Mark Gillon  
Stanley William Glaser  
Richard Carl Gronauer  
Francis Aloysius Healy  
Charles Donald Heile  
Daniel Edwin Herth  
Jon Stephen Juengling  
Thomas Donald Kellner  
Robert Lawrence Koenig  
Bernard Francis Losekamp  
David Gregory Maley  
Charles Raymond Massa

John Anthony Masten  
Jon Edward McCarthy  
William Joseph McCluskey  
David Joseph McDevitt  
Jerry Raymond Miglorini  
George Donald Molinsky  
John Louis Monaco  
Clarence Joseph Muelleman  
John Andrew Nagy  
Mark Edwin Plageman  
Robert Stanley Powell  
Charles John Reed  
Louis Anthony Sabel  
John Christopher Schaffer  
Francis James Seibert  
James William Smith  
George Cajetan Stepanic  
John Charles Stubenrauch, Jr.  
Daniel Charles Sullivan  
Francis Xavier Tartaron, Jr.  
Richard Carl Wallace  
Elliot Jerome Welch  
James George White  
Melvin Michael Zwissler

Commission as Second Lieutenant, U.S.A.R., Finance Corps

June 4, 1958

Thomas Joseph Krebs

Conferring of Degrees

The Evening College

RUSSELL J. WALKER, *Dean*

June 4, 1958

CERTIFICATE IN ACCOUNTING

Henry J. Averbeck  
Paul E. Berning  
Margie Ellen Broerman  
Norman L. Brown, Jr.  
Gordon Bradford Denton  
Paul Joseph Doyle  
Rodney Joseph Fussinger

Joseph Vincent Gettelfinger  
Donald F. Koetting  
Robert J. Mains  
George Walter Merz  
Franklyn Daniel Newman  
Vera M. Puttmann  
John C. Stiegler

Alfred L. Wendel



CERTIFICATE IN TRAFFIC MANAGEMENT

Joseph P. Jennings  
Russell J. Link

John Edward O'Brien  
Donald Charles Stahl

CERTIFICATE IN GENERAL BUSINESS

Louis Brown, Jr.

Robert H. Klein

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Charles Frank Becker, *cum laude*  
John P. Becker, *cum laude*  
James A. Behne  
Robert E. Byrnes  
Louis Martin Dagenbach  
John Gilbert Deters, *magna cum laude*  
Thomas L. Dressman  
Anthony J. Neumeister  
Joseph E. O'Connell

Anthony Michael Pangallo  
Anthony I. Pazera, *cum laude*  
Conrad A. Pohlman  
George Franklin Powell  
Ronald H. Reidy  
J. Ervin Rinner  
Robert John Soaper  
Theodore G. Vogt  
Thomas Edward Westerfield

BACHELOR OF SCIENCE

Jean Clark  
Betty Alice Dreyer  
Samuel Charles Hoffman  
John E. Marx

Thomas M. McDonough  
Norbert Philip Quebbeman  
Russell C. Troisi  
Harry J. Weingartner

BACHELOR OF ARTS

Jean M. Feiertag

John R. Scherm

The College of Liberal Arts at Milford

REV. EDMUND J. HARTMANN, S.J., *Dean*

BACHELOR OF LITERATURE

August 30, 1957

Richard Wilbur Anderson, S.J.  
Richard William Moodey, S.J., *cum laude*

Martin Patrick Coyne, S.J.

June 4, 1958

Leo Peter Cachat, S.J.  
William Joseph Hagerty, S.J.  
Paul Martin Kope, S.J.  
George Alphonsus Lane, S.J., *cum laude*  
Samuel Anthony Manser, S.J.  
John Voss Moorman, S.J.

Theodore Cosmas Ross, S.J.,  
*magna cum laude*  
William Anthony Stanmeyer, S.J.,  
*magna cum laude*  
Edmund John TePas, S.J.  
Richard Henry Twohig, S.J.

The College of Liberal Arts at Evanston

REV. HENRY J. WIRTENBERGER, S.J., *Dean*

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

August 30, 1957

Sister Loretto Marie Brandstetter, R.S.M.	George Anthony Miller
Bernard Engelbert Bruning	Sister Mary Viator Parker, S.N.D.
Frederick Carlton Currier, Jr.	Richard Clarence Rice, <i>magna cum laude</i>
James Edward Dehan	William Anthony Schneider
Joseph Michael Flannery	Robert Anthony Schutzman, <i>cum laude</i>
Paul Michael Hassett	Robert Henry Schwierling
Richard Paul Jennings	Kenneth Francis Sieve
Joseph Herman Jorling, Jr.	John Charles Van Flandern
Joseph Arthur Mathys	John William Wintz
Charles Nunzio Mazza	Pall Louis Wurzelbacher
Gerald Edward Meyer	

January 18, 1958

John Patrick Atherton	Thomas James Henry
John Bernard Behne	Thomas Louis Hoh
Gilbert Christopher Bernhardt	Michael Robert Jacobs
James Thomas Boeckmann	Robert Lee Jetter
Patrick Edward Breen	Robert Lawrence Krummen
Jerry Oliver Cummings	Ronald Charles Leach
Joseph Louis Deidesheimer, <i>magna cum laude</i>	John Walter Mullen, Jr.
Gregor Meagher Fennell	Thomas Edward Sedler
Glenn Anthony Groh	Robert Sonntag
Russell George Haas	Richard Joseph Thiem
	Robert James Thierauf
Josiah James Turner, Jr.	

June 4, 1958

Joseph Theodore Appelman	James Patrick Cafferky
Paul Edward Armbruster	August Martin Cianciolo
George James Athanasakes, <i>magna cum laude</i>	Edward Russell Collins
Robert Henry Bachman	John Edward Corrigan
Vincent John Backley, Jr.	Lawrence Edward Darpel
Joseph Louis Bernstein	Dino Angelo DeLorenzo
Walter John Brouder, Jr.	Michael David Diver
Frank August Bruening	William John Dornberger
Raymond Michael Buhrman	Paul James Dumbacher
James Joseph Bushell	James Timothy Dunn
John Thomas Bycraft III	Roland Francis Eichner
	August Henry Eilerman

Harry Walter Ekins  
Jack Henry Ernst  
James Joseph Faller  
James Joseph Fallon  
Robert Charles Frommeyer  
Robert Louis Geiser  
Russell Michael Giesler  
Thomas Arthur Gilligan  
Stanley William Glaser  
Lawrence Timothy Green  
Bernard John Griffin  
Richard Carl Gronauer  
Donald Joseph Huhn  
Paul Francis Jeanmougin  
John Thomas Judge  
Jon Stephen Juengling  
William John Kane, *magna cum laude*  
Gerald Thomas Keeley  
Thomas Donald Kellner, *cum laude*  
Melvin William Kist  
Thomas Joseph Krebs  
Robert Lawrence Lindenschmidt, Jr.  
Frank Thomas Ludwig  
David Gregory Maley  
Charles Raymond Massa  
John Anthony Masten  
William Joseph McCluskey  
David Joseph McDevitt  
William Patrick Merten  
Jerry Raymond Miglorini  
George Donald Molinsky, *cum laude*  
John Louis Monaco  
George Luis Munoz  
Robert John Murphy  
Ronald Andre Nelson  
James Holliday Neuhoff

Thomas Joseph O'Brien  
Yung Hoon Oh  
Anthony Gerard Olberding  
Dwight James Parsons  
Robert Stanley Powell  
Richard James Rauckhorst  
Paul Sylvester Reinermann, Jr.,  
*cum laude*  
Joseph William Rolfes  
John Gerald Rooney  
Louis Anthony Sabel  
John Christopher Schaffer  
Donald Charles Scheidler  
Ned Albert Schimpf  
Richard Charles Schoenebaum  
Richard James Schramm  
Stephen Gerald Schwertman  
Gabriel Anthony Sciarretti  
Francis James Seibert  
Gerald Earl Smith  
David John Spaeth  
John Bernard Spinnenweber  
George Cajetan Stepanic  
Daniel Joseph Stevens  
John Charles Stubenrauch, Jr.  
Daniel Charles Sullivan  
Richard Giles Switzer  
Robert Joseph Trischler  
Richard Paul Volle  
Richard Carl Wallace  
George Bernard Weber  
James Francis Wedding  
Elliot Jerome Welch  
James George White  
Robert Joseph Wicker  
Martin Theodore Wirtz

CARL JOSEPH WURTZ

BACHELOR OF SCIENCE

August 30, 1957

James Looney Anderson  
Edmund Louis Auchter  
Joseph Julius Bien  
James Edward Breving  
John Patrick Costigan  
H. Edward Egbers  
Patrick Alcock Gilligan

Dominic Michael Giordano  
John Robert Hackman  
John Patrick Haley, Jr.  
Charles Gilbert Heyd  
John Robert Johnson  
Jeremiah Edward Leary  
James Francis O'Connor

Charles McDade Patterson  
William Kearns Sandke  
Fred Serraino  
Francis Allen Stahl  
Sister Mary Consolata Stallings, O.S.U.

James John Steinbach  
James Richard Stiens  
William Hugh Studer  
James Beryl Warm

January 18, 1958

Lee John Butz, Jr.  
Joseph Raymond Godar  
Benedict Thomas Harwood  
Ralph Ray Hogue  
David Tharon Kerber

William Henry Lammers  
Thomas Kevin McDevitt  
Robert Lawrence Meredith  
Charles Bernard Pieper, Jr.  
John Clayton Smith

June 4, 1958

George Antonio Bardo  
William Bruce Blaes  
Harry Jay Boal  
Donald Louis Casey  
Robert Eugene Cherry  
Ronald George Clasgens, *cum laude*  
Daniel Jude Coletta  
John Walter Connolly,  
*magna cum laude*  
Alfred John Corbett, *magna cum laude*  
Kenneth James Dahle  
Joseph Martin Dasbach,  
*magna cum laude*  
Anthony Bernard Delape  
Charles Eugene Dobos  
Richard Thaddeus Dugan  
Jimmie Lynch Dunbar  
Edward Arthur Duston  
James Alexander Eble  
William James Ennis  
Martin Thomas Feeny, *cum laude*  
John David Fielding, Jr.  
John Peter Frank  
William Mark Gillon  
Francis Aloysius Healy  
Kenneth Norbert Hehman, ,  
*summa cum laude*  
Charles Donald Heile  
Daniel Edwin Herth  
John Cotter Hogan  
Alvin Anthony Huesman,  
*magna cum laude*

Peter Elmer Kauffman  
Hugh Alan Keiser  
William Francis Kern  
Brother Michael Kinberger, C.F.P.  
John Thomas King  
Irvin James Klei  
Robert Lawrence Koenig, *cum laude*  
David Joseph Langenbrunner  
Carl Walter Larosche  
Bernard Francis Losekamp, *cum laude*  
Austin Louis Luckett, Jr.  
Alvin Francis Luersen  
Deddo Gerard Lynn  
Charles Eugene McCarthy,  
*magna cum laude*  
Jon Edward McCarthy  
John Edward McNamara  
James Aloysius McSwigan, Jr.  
Charles George Menk  
Ralph Edward Moeller  
Neil Francis Mooney  
Clarence Joseph Muelleman,  
*cum laude*  
Maurice James Mueller, *cum laude*  
Robert Andrew Nelson  
Ferdinand Joseph Niehaus  
Joseph John Nolan  
Robert Charles Olding  
John Robert O'Neal  
Anthony Carmine Palumbo  
William George Poole  
Charles John Reed

Cleto Hassan Rial  
Thomas Francis Riley  
Philip Michael Riordan  
Anthony Joseph Salem, *cum laude*  
John Patrick Sammon  
James Michael Sammons  
Robert Bernard Scheel  
William Thomas Sena, *cum laude*  
John Charles Sherman  
James William Smith  
Brother Edward Stanfield, C.F.P.  
Robert John Steltenkamp  
Edward Francis Sternen

Bernard Thomas Swaykus,  
*summa cum laude*  
Michael Edward Tancey, Jr.  
Francis Xavier Tartaron, Jr.  
Martin Thomas, Jr.  
Richard Frank Ulrich  
David Christian Weber  
James William Wiggs, Jr.,  
*summa cum laude*  
Ronald August Wilke  
Timothy Cullen Woomer  
Melvin Michael Zwissler

#### BACHELOR OF ARTS

August 30, 1957

Richard Lee Kiley

January 18, 1958

Richard Nicholas Bachman

John Christopher Shanahan

June 4, 1958

William Odis Bertelsman,  
*summa cum laude*  
Harry Armon Blair, *cum laude*  
Thomas Edward Budde  
Ronald John Coffey, *summa cum laude*  
Michael Joseph Colacurcio,  
*summa cum laude*  
Bernard Edward Dick  
John Leo Donovan

Thomas Vincent Foley  
Paul Theodore Jansen  
Ronald George Joseph  
Charles John Kiffmeyer  
John Andrew Nagy  
Mark Edwin Plageman, *cum laude*  
Stanley Frederick Weber,  
*summa cum laude*

#### BACHELOR OF ARTS (HONORS)

James Patrick Bradley,  
*magna cum laude*  
Robert Emmet Creighton  
Conrad Louis Donakowski, *cum laude*  
Andrew Francis Guschwan,  
*magna cum laude*

Matthew Aloysius McLaughlin, Jr.  
Edwin Peter Menes, *summa cum laude*  
John Francis Pennington,  
*summa cum laude*  
Thomas James Widlar

## Graduate School

RAYMOND F. MCCOY, Ed.D., *Dean*

### MASTER OF EDUCATION

August 31, 1956

Paul Hendricks Thompson  
A.B., Georgetown College  
Education: Educational Administration

August 30, 1957

- |  |  |
|--|--|
| Floyd Edward Anthony<br>B.S. in Ed., University of Cincinnati<br>Education: Educational Guidance             | Rev. Angelo Carmelo Caserta<br>A.B., Athenaeum of Ohio<br>Education: Educational Administration                                |
| Sister Mary Stella Armbruster, C.P.P.S.<br>B.S. in Ed., Athenaeum of Ohio<br>Education: Elementary Education | Edward Earl Cox<br>B.S. in Ed., Salem College<br>Education: Educational Administration   |
| Stephen M. Artner<br>B.S., Miami University<br>Education: Educational Administration                         | Sister Mary Clarissa Crowe, R.S.M.<br>Mus.B., College-Conservatory of Music<br>of Cincinnati<br>Education: Secondary Education |
| Dorothy McKenzie Baker<br>A.B., University of Kentucky<br>Education: Educational Guidance                    | Sister Rita Marie DeBrosse, S.N.D. de N.<br>B.S. in Ed., Athenaeum of Ohio<br>Education: English                               |
| John T. Becker<br>B.S. in Ed., University of Dayton<br>Education: Educational Administration                 | George W. Dunning, Jr.<br>B.S. in Ed., Wilmington College<br>Education: Educational Guidance                                   |
| Rev. Stanley D. Bir, O.F.M.<br>A.B., Duns Scotus College<br>Education: Educational Guidance                  | Victor Francis Effler<br>A.B., Xavier University<br>Education: Educational Guidance  |
| Rev. Faran Boyle, O.F.M.<br>A.B., Duns Scotus College<br>Education: History                                  | Richard H. Ellis<br>A.B., Villa Madonna College<br>Education: Educational Administration                                       |
| Raymond A. Brock<br>A.B., Western Kentucky State College<br>Education: Educational Administration            | Glenn Curtiss Ellison<br>A.B., in Ed., Denison University<br>Education: Educational Guidance                                   |
| Mary Frances Byrd<br>B.S., Mundelein College<br>Education: Educational Administration                        | Margaret Reynolds Eversole<br>A.B. in Ed., University of Kentucky<br>Education: Educational Administration                     |
| Sister Celine Carrigan, S.C.N.<br>A.B., Xavier University<br>Education: Secondary Education                  |  |

- Sister Mary Martha Feder, O.S.B.  
A.B., Villa Madonna College  
Education: Theology
- Luster W. Golden  
A.B., Berea College  
Education: Educational Administration
- Sister Mary Norbertine Gudorf, C.P.P.S.  
B.S., Athenaeum of Ohio  
Education: Educational Administration
- Ralph Guido  
B.S. in Ed., University of Dayton  
Education: Educational Administration
- Sister Mary Alphonsa Habig, C.P.P.S.  
B.S. in Ed., Athenaeum of Ohio  
Education: Educational Administration
- Sister Mary Evelyn Hailey, R.S.M.  
B.S. in Ed., Athenaeum of Ohio  
Education: Elementary Education
- Gabriel J. Hartke  
B.S. in B.A., Xavier University  
Education: Educational Administration
- Theodore Randolph Henderson  
B.S. in Elem. Ed., Rio Grande College  
Education: Educational Administration
- Charlotte Ellen Kennedy  
A.B., St. Mary of the Woods College  
Education: Educational Guidance
- Sister Margaret Anne Kraemer, C.D.P.  
A.B., Villa Madonna College  
Education: Secondary Education
- Joseph Samuel Lowenstein  
B.S. in Bus., Miami University  
Education: English
- Sister Agnes Marian Madden, C.D.P.  
A.B., Villa Madonna College  
Education: Educational Administration
- Sister M. Florentia Mahoney, O.S.U.  
B. of Ed., Duquesne University  
Education: Educational Administration
- Sister Mary Austin McGahan, O.S.B.  
A.B., Villa Madonna College  
Education: Theology
- Sister Mary Leopolda Meyer, S.N.D.  
A.B., Villa Madonna College  
Education: Elementary Education
- Lester Mohrfield  
B.S. in Ed., Miami University  
Education: Educational Administration
- Rev. Robert Joseph Monnin  
A.B., Athenaeum of Ohio  
Education: History
- Sister Constance Mueller, S.C.N.  
B.S. in Ed., Nazareth College  
Education: Educational Administration
- Sister Mary Adrian Mulloy, R.S.M.  
B.S. in Ed., Athenaeum of Ohio  
Education: Chemistry
- Francis Marion Pottenger III  
B.S., Otterbein College  
Education: Educational Guidance
- Harriett L. Rea  
A.B., Wittenberg College  
Education: Educational Administration
- Richard Frederick Rothfuss  
B.S. in Ed., University of Cincinnati  
Education: Educational Administration
- Sister Mary Edith Ryan, R.S.M.  
B.S. in Ed., Athenaeum of Ohio  
Education: Educational Guidance
- Sister Ann Lucille Schick, S.N.D. de N.  
B.S. in Ed., Athenaeum of Ohio  
Education: English
- Richard N. Seifert  
B.F.A., College-Conservatory of Music  
of Cincinnati  
Education: Communication Arts
- Sister Mary Patrick Smith, S.N.D. de N.  
B.S. in Ed., Athenaeum of Ohio  
Education: English
- Sister Mary Iona Taylor, C.P.P.S.  
B.S. in Ed., Athenaeum of Ohio  
Education: Elementary Education

Sister Bernardine Tegethoff, S.C.N.  
A.B., Nazareth College  
Education: Mathematics

David Paul Thurin  
A.B., College of St. Thomas  
Education: English

Frances C. Welsh  
B.S. in Ed., Miami University  
Education: Educational Guidance

January 18, 1958

Bluford Berryman  
A.B., Kentucky Wesleyan College  
Education: Educational Administration

Betty Sue Robinson  
A.B., Alabama College  
Education: Educational Guidance

Dennie M. Brown  
B.S., Miami University  
Education: Educational Administration

Robert J. Savage  
A.B., St. Mary's College  
Education: English

Loretta Mary Connelly  
B.S. in Ed., University of Cincinnati  
B.Ed., University of Cincinnati  
Education: Educational Guidance

Marilyn J. Schneider  
A.B., Our Lady of Cincinnati College  
Education: English

Robert F. Wood  
B.S., University of Dayton  
Education: Educational Administration

June 4, 1958

Charles Robert Allen  
A.B., Kansas Wesleyan University  
Education: Communication Arts

Cecilia R. Falk  
B.S. in Ed., University of Cincinnati  
B.Ed., University of Cincinnati  
Education: Educational Guidance

Maude Bowen  
A.B., Eastern Teachers College  
Education: Elementary Education

Joseph Louis Felix  
A.B., Xavier University  
M.A., Xavier University  
Education: Educational Guidance

Albert William Bruno  
A.B., Maryknoll College  
Education: Educational Administration

Goldie Louise Felty  
B.S. in Ed., University of Cincinnati  
Education: Educational Guidance

Rev. Farrell Byers, O.F.M.  
A.B., Duns Scotus College  
Education: Educational Guidance

James Verle Floyd  
A.B., Miami University  
Education: Educational Guidance

William David Cutcher  
B.S. in Ed., University of Dayton  
Education: Educational Guidance

Theodore T. Fry  
A.B., Athenaeum of Ohio  
Education: Educational Guidance

Sister Mary Lambert Dowling, R.S.M.  
B.S. in Ed., Our Lady of Cincinnati  
College  
Education: Elementary Education

Clifford R. House  
A.B. in Ed., Fairmont State College  
Education: Educational Administration



- Norman Irvin  
B.S. in Ed., Wilmington College  
Education: Educational Administration
- Merle Ann Koenig  
A.B., Our Lady of Cincinnati College  
Education: Educational Guidance
- Sister Paul Marie Lehr, C.D.P.  
A.B., Villa Madonna College  
Education: English
- Vida Nadine Maitland  
A.B., Baldwin Wallace College  
Education: Educational Guidance
- Harry D. Mandelbaum  
B.S., Xavier University  
Education: Educational Guidance
- Mary Virginia Meyer  
A.B., University of Cincinnati  
B.S. in Ed., University of Cincinnati  
Education: Educational Guidance
- Joan Miller  
B.S. in Ed., University of Cincinnati  
Education: Educational Guidance
- Henry Patrick Ziegler  
A.B., St. Meinrad Seminary  
Education: Educational Guidance
- Jack Murray Reck  
B.Phys.Ed., Purdue University  
Education: Educational Administration
- Anaclea A. Salvo  
B.S.E., Golden Gate College (Manilla, P.I.)  
Education: Educational Administration
- Donald P. Sowell  
B.S. in Ed., The Ohio State University  
Education: Educational Guidance
- Eddie Lawrence Starr  
A.B., Miami University  
Education: Educational Guidance
- Donald J. Stenger  
B.S., Xavier University  
Education: Educational Administration
- Rev. Donnul Alvin Suttman, O.F.M.  
A.B., Duns Scotus College  
Education: Educational Administration
- Colin Paul Yacks  
B.S., Milwaukee State Teachers College  
Education: Educational Administration

#### MASTER OF BUSINESS ADMINISTRATION

August 30, 1958

- James Aldrich Black  
B.Mech.Eng., General Motors Institute  
Business: Advanced Business Economics
- Richard Edward Lamping  
B.S. in B.A., Xavier University  
Business: Accounting
- Mary Cecilia Low  
A.B., College of Mount St. Joseph  
on-the-Ohio  
Business: Personnel
- Robert Joseph Meuse  
B.S., Merrimack College  
Business: Management
- Jerome T. Raterman  
B.S., Purdue University  
Business: Marketing
- William P. Withers, Jr.  
B.S., United States Military Academy  
Business: Management
- Norman C. Zix  
B.B.A., University of Cincinnati  
Business: Management

January 18, 1958

- Lyman Harlow Abbott, Jr.  
B.B.A., University of Cincinnati  
Business: Personnel
- Edward James Arlinghaus  
B.B.A., University of Cincinnati  
Business: Personnel
- John William Baudendistel  
LL.B., Salmon P. Chase College  
Business: Management
- Charles Nixon Bunn  
B.S., United States Military Academy  
Business: Advanced Business Economics
- Williams Adams Engle  
B.S. in BA., The Ohio State University  
Business: Personnel
- Edward John Fink  
B.S., Salmon P. Chase College  
Business: Management
- Joseph Gehler  
A.B., University of Cincinnati  
B.S. in Com., University of Cincinnati  
M.A., University of Cincinnati  
Business: Advanced Business Economics
- Gerhardt H. Gieseke  
B.B.A., University of Minnesota  
Business: Management
- James B. Grady  
B.S. in B.A., Xavier University  
Business: Management
- Joseph Alfred Gratton  
B.B.A., Clarkson College of Technology  
Business: Advanced Business Economics
- James Anthony Graves  
B.S. in B.A., Xavier University  
Business: Management
- Robert K. Heidrich  
A.B., Miami University  
Business: Management
- Bernard A. Hogan  
B.S. in Com., University of Kentucky  
Business: Personnel
- William E. Jamison, Jr.  
B.S.B.A., Morehead State College  
Business: Accounting
- Karl Paul Kadon, Jr.  
B.S. in Ed., University of Cincinnati  
Business: Management
- Maurice Lewis Kelley, Jr.  
B.S., Temple University  
Business: Marketing
- John Edward Kleymeyer  
A.B., Villa Madonna College  
Business: Marketing
- Sister Mary Anastasia Lega, O.S.U.  
A.B., Ursuline College  
Business: Advanced Business Economics
- Edwin Roy Lindemann  
B.B.A., University of Cincinnati  
Business: Management
- David J. Macarthy  
B.B.A., University of Cincinnati  
Business: Personnel
- William Irwin Macke  
B.S. in B.A., Xavier University  
Business: Management
- Bernard Joseph Maurer  
B.S.B.A., University of Akron  
Business: Personnel
- Joseph Michael Mazur  
B.E.E., Rensselaer Polytechnic Institute  
Business: Management
- Roger L. Moore  
B.S. Bus., Miami University  
Business: Management

Daniel J. Myers  
B.S. in B.A., University of Dayton  
Business: Management

Eugene P. Schwartz  
B.S. in M.E., Iowa State College  
Business: Management

Bernard William Sewell  
B.S. in B.A., Xavier University  
Business: Management

Frank Bernard Sommerkamp, Jr.  
B.S., Xavier University  
Business: Marketing

William Peter Thomas  
B.B.A., University of Cincinnati  
Business: Management

Irvine Turner  
B.S. in Com., University of Cincinnati  
Business: Personnel

Carl B. Udry, Jr.  
B.S. in B.A., Xavier University  
Business: Accounting

Robert E. Wildermuth  
B.B.A., University of Cincinnati  
Business: Advanced Business Economics

June 4, 1958

Robert Loring Allen  
B.B.A., Boston University  
Business: Management

John E. Alverson  
B.B.A., University of Cincinnati  
Business: Management

Fred Robert Bohlen  
B.B.A., University of Cincinnati  
Business: Accounting

Richard Anthony Brinkman  
B.S. in B.A., Xavier University  
Business: Management

Jesse Herman Brown  
B.S.Elec.Eng., North Carolina State  
College  
Business: Management

Mary Edith Burnet  
Com.E., University of Cincinnati  
Business: Advanced Business Economics

James Bellinger Casey  
B.S.CivilEng., Cornell University  
Business: Management

James Garratt Copeland  
A.B., Kalamazoo College  
Business: Management

Franklin N. Corbin  
B.B.A., Northwestern University  
Business: Management

Basheer Shakir David  
B.S.C., Salmon P. Chase College  
Business: Accounting

William Edward Davis  
B.S.E.E., University of Louisville  
Business: Advanced Business Economics

David Wayne Dunbar  
A.B., Miami University  
Business: Management

Dale Anthony Eickman  
A.B., St. Mary's College  
Business: Management

Paul Lewis Emerick, Jr.  
B.S.C., Rensselaer Polytechnic Institute  
B.M.E., Rensselaer Polytechnic Institute  
Business: Advanced Business Economics

Ernest Frederic Faass  
B.S. in B.A., Xavier University  
Business: Marketing

- Thomas A. Glassmeyer  
B.S.C., University of Cincinnati  
Business: Marketing
- Clifford Andrew Glazier  
B.B.A., University of Cincinnati  
Business: Management
- James Albert Glenn  
B.B.A., University of Cincinnati  
Business: Management
- James V. Gutman, Jr.  
Ph.B., Xavier University  
Business: Personnel
- Harold Alan Hart  
B.S.B.A., Miami University  
Business: Management
- Jesse B. Hearin, Jr.  
B.S., United States Military Academy  
Business: Management
- William Jerome Heekin  
B.S., Xavier University  
Business: Accounting
- Carol J. Helmers, Jr.  
B.S., Xavier University  
Business: Marketing
- Robert Joseph Hoey  
B.S. in B.A., Xavier University  
Business: Marketing
- Robert L. Hosick  
B.C.E., University of Cincinnati  
Business: Management
- Paul Finton Kelley  
A.B., University of Notre Dame  
Business: Management
- Harold B. Kepler  
B.B.A., Sinclair College  
Business: Management
- Eugene C. Ketcham  
B.Ed., Western Illinois State College  
Business: Management
- John F. Kispert  
B.S. in B.A., Xavier University  
Business: Accounting
- Elmer V. Koenig, Jr.  
B.S., Xavier University  
Business: Management
- Edwin A. Lewis  
B.B.A., University of Washington  
Business: Management
- Peggy Ann Louis  
Ph.B., Xavier University  
Business: Accounting
- Robert C. MacVeigh  
B.B.A., University of Cincinnati  
Business: Advanced Business Economics
- Leo James Mayer  
B.S., Xavier University  
Business: Management
- Donald Richard McGarahan  
A.B., Defiance College  
Business: Accounting
- Robert Edward McMahan  
B.S. in B.A., Xavier University  
Business: Management
- Paul C. Mecklenborg  
B.S. in Ind. Mgmt., University of Cincinnati  
Business: Accounting
- Aris E. Modon  
A.B., Hartwick College  
Business: Personnel
- Ernest Joseph Mondron  
A.B., West Virginia University  
Business: Management
- William P. Mooney  
B.S., St. Bernardine of Siena College  
Business: Management

- George H. Musekamp III  
 B.S., University of Cincinnati  
 M.Ed., Xavier University  
 Business: Advanced Business Economics
- Charles L. Nix  
 B.S., Agricultural and Mechanical College of Texas  
 B.S.E.E., Agricultural and Mechanical College of Texas  
 Business: Management
- David A. Patterson  
 B.S., Xavier University  
 Business: Advanced Business Economics
- Paul Francis Pauly  
 B.B.A., University of Cincinnati  
 Business: Management
- Margaret Ann Roettele  
 A.B., University of Cincinnati  
 Business: Management
- Robert C. Sheppard  
 A.B., University of Cincinnati  
 Business: Management
- Homer V. Stiff  
 B.B.A., University of Cincinnati  
 Business: Management
- Ray L. Stoddard  
 B.S. Aero Sci., Iowa State College  
 Business: Management
- John Patrick Sweeney, Jr.  
 B.S., Xavier University  
 Business: Management
- John Anthony Torok  
 B.B.A., University of Cincinnati  
 Business: Management
- Robert George Van Stone  
 B.S., Marshall College  
 Business: Management
- Max Gossett Walker  
 B.S., Wilmington College  
 Business: Management
- Ralph Leland Witte  
 B.B.A., University of Cincinnati  
 Business: Economics
- William Herbert Wulftange  
 B.S., United States Naval Academy  
 Business: Management
- Oleg Zinam  
 B.S., Xavier University  
 Business: Advanced Business Economics

#### MASTER OF SCIENCE

August 30, 1957

- Fred W. Breitbeil III  
 B.S., Xavier University  
 Chemistry: Using Dimethyl Formamide in Organic Synthesis
- Eugene Howard Hirschberg  
 B.S., Xavier University  
 Chemistry: Osmotic Pressure of Alpha- and Beta- Schardinger Dextrins

June 4, 1958

- Richard E. DeMarco  
 B.S., Iona College  
 Chemistry: Kinetics of the Reaction  

$$\text{UO}^2\text{F}^2 + 4\text{HF} \rightarrow \text{UF}^6 + 2\text{H}^2\text{O}$$
- Vincent J. Sodd  
 B.S., Xavier University  
 Chemistry: Preparation and Derivatives of 7- Nitro Fluorenone -2- Carboxylic Acid

Harry Clement Voet  
B.S., Xavier University  
Chemistry: Some Phosphorus Deriva-  
tives of Fluorene and Fluorenone

MASTER OF ARTS

August 30, 1957

Raymond A. Dunn, S.J.  
A.B., Loyola University  
Classics: The Protagonist of the Anti-  
gone

Joseph E. Knab  
A.B., Xavier University  
Classics: The Decline of Rome: Horace  
to Juvenal

Millard Edmund Hussey  
A.B., Athenaeum of Ohio  
Classics: The Correspondence between  
Paulinus of Nola and Ausonius of  
Bordeaux

Thomas Louis Koberna  
A.B., Xavier University  
History: Moses Dawson: Jacksonian  
Spokesman of the West

Robert Joseph Murray  
H.A.B., Xavier University  
Classics: The Second Recension of  
Chrysostom's Commentary on John  
as It Applies to Homilies 1, 2, and 13

January 18, 1958

J. Peter Carey, S.J.  
A.B., Xavier University  
English: Arthur Miller and the Tragedy  
of the Common Man

Richard James Carlin  
B.S., John Carroll University  
History: Spanish Nautical Progress,  
1492-1540

Sister Vincent Feth, S.N.D. de N.  
A.B., University of Dayton  
History: A History of the Sisters of  
Notre Dame in Columbus: The First  
Fifty Years, 1855-1905

Jean Michael Penney  
A.B., The Citadel  
History: Reforms in the British Army,  
1870-1914

Sister Mary Clarisena Rick, R.S.M.  
A.B., DeSales College (Toledo, Ohio)  
History: Guy M. Bryan and President  
Hayes' Southern Policy

Kaoru Timothy Watanabe  
A.B., Sophia University (Japan)  
English: Jane Austen's Characters in  
Pride and Prejudice

June 4, 1958

Joseph Julius Bien

B.S., Xavier University

History: Napoleon II and the Attempts  
to Gain the French Crown

John Robert Cox, Sr.

A.B. in Jour., University of Kentucky  
English: The Comic Spirit in Nathaniel  
Hawthorne

Frederick Tracy Drugan

B.S. in B.A., Xavier University

Philosophy: The Analogy according to  
Existence but not according to In-  
tention in the Philosophy of St.  
Thomas Aquinas

John Betts Henderson

B.S., Xavier University

History: The Efforts of the United  
States Government to Obtain Texas  
during Jackson's Administration as  
Revealed in the Diplomatic Mission  
of Anthony Butler, United States  
Charge d' affaires to Mexico, 1829-  
1836

Alan J. Reinerman

B.S., Xavier University

History: Frontier Influence on the De-  
velopment of American Firearms

Garry Leo Wills

A.B., Saint Louis University

Classics: Time and Space in Aeschylus

### Conferring of Honorary Degrees by the President

#### DOCTOR OF LAWS (HONORIS CAUSA)

June 4, 1958

Edward J. Schulte, A.I.A.

Architect

Presented by

Rev. Paul L. Allen, S.J.

Rev. Edward B. Rooney, S.J.

President, The Jesuit Educational Association

Presented by

Raymond F. McCoy, Ed.D.

# Index

	PAGE		PAGE
Absence from Test.....	71	B.S., History.....	102
Academic Regulations.....	68	B.S., Mathematics.....	104
Accounting.....	86, 125	B.S., Modern Languages.....	106
Accreditation.....	36	B.S., Philosophy.....	108
Administration.....	8	B.S., Physical Education.....	110
Admission, Graduate.....	208	B.S., Physics.....	112
Undergraduate.....	57	B.S., Political Science.....	114
Advanced Placement.....	58	B.S., Pre-Medical.....	118
Alpha Sigma Nu.....	55	B.S., Psychology.....	116
Alumnae Association.....	56	B.S.B.A., Accounting.....	86
Alumni Association.....	55	B.S.B.A., Economics.....	90
Assistantships, Graduate.....	211	B.S.B.A., General Business.....	88
<i>Athenaeum, The</i> .....	54	Litt.B.....	123
Attendance.....	71	Degrees, Graduate.....	199
Awards.....	47	Undergraduate.....	75
Biology.....	84, 126	Departments of Instruction.....	73, 124
Board and Room.....	66	Dormitories.....	40, 66
Board of Trustees.....	8	Economics.....	80, 92, 149
Booklovers, The.....	55	Education.....	110, 152, 202
Buildings.....	84	English.....	86, 160
Business Administration.....	86, 88, 90, 130, 206	Enrollment, Summary of.....	214
Calendar.....	5, 7	Enrollment of States and Foreign Countries.....	215
Candidacy, Graduate.....	209	Evening College.....	32
Censure.....	71	Examinations, Graduate.....	210
Certification, Teacher.....	110	Undergraduate.....	68
Chaswil Foundation.....	46	Faculty.....	12
Chemistry.....	94, 138, 200	Failure.....	71
Christian Culture.....	197	Fees, Graduate.....	212
Chronicle.....	213	Undergraduate.....	65
Classical Languages.....	80, 82, 143	Fine Arts.....	164
Classification of Students.....	68	French.....	106, 178
Clubs.....	50	Geography.....	164
College of Arts and Sciences.....	32	German.....	106, 179
College-Conservatory of Music.....	33	Government Loan Fund.....	46
Commencement Program, 1958.....	216	Grading System, Graduate.....	210
Committees, University.....	10	Undergraduate.....	69
Curricula, Approved.....	78	Graduate School.....	199
Curricular Information.....	73	Graduation Honors.....	75
Dad's Club, The.....	55	Graduation, Requirements for.....	76
Degree Programs:		Greek.....	143
A.B., General.....	82	Guidance Center.....	39
A.B., Honors.....	80	Health Service.....	38
B.S., Biology.....	84	History.....	102, 165
B.S., Economics.....	92	History of University.....	32
B.S., Chemistry.....	94	Honorable Dismissal.....	72
B.S., Communication Arts.....	98	Honor Societies.....	55
B.S., English.....	96		
B.S., Hispanic Studies.....	100		



	PAGE		PAGE
Hospital Administration . . . . .	137	Registration, Undergraduate . . . . .	68
Housing, Student . . . . .	40	Reports . . . . .	69
Institutional Memberships . . . . .	36	Requirements for Bachelors' Degrees . . . . .	76, 78
Intercollegiate Athletics . . . . .	53	Requirements for Graduate Degrees . . . . .	208
Intercollegiate English Essay Contest . . . . .	47, 213	R.O.T.C. . . . .	42, 175
Intercollegiate Latin Contest . . . . .	49, 213	Reservation of Rights . . . . .	77
Intramural Athletics . . . . .	53	Residence Halls . . . . .	85, 40, 66
Jesuit Educational Association . . . . .	238	Residence Requirements . . . . .	76
Laboratories . . . . .	41	Retreats . . . . .	38
Latin . . . . .	80, 82, 146	Room and Board . . . . .	66
Libraries . . . . .	40	Russian . . . . .	181
Lichter Foundation . . . . .	46, 212	Scholarships, Graduate . . . . .	210
Loans . . . . .	46, 212	Undergraduate . . . . .	42
Lower Division . . . . .	68, 73	Sociology . . . . .	191
Major . . . . .	74	Spanish . . . . .	106, 181
Master of Arts . . . . .	199	Speech Arts . . . . .	98, 192
Master of Business Administration . . . . .	206	Specialization . . . . .	74
Master of Education . . . . .	202	Student Aid . . . . .	42
Master of Science . . . . .	200	Student Government . . . . .	49
Mathematics . . . . .	104, 171, 201	Student Guidance . . . . .	39
Milford College . . . . .	38	Student Health Service . . . . .	88
Military Science . . . . .	175	Student Organizations . . . . .	50
Miller Analogies Test . . . . .	209	Summary of Enrollment . . . . .	214
Minor . . . . .	74	Teacher Certification . . . . .	110
Modern Languages . . . . .	106, 178	Theology . . . . .	194
Musketeer Club . . . . .	56	Transcript Regulations . . . . .	64
<i>Musketeer, The</i> . . . . .	54	Tuition . . . . .	65, 212
<i>News, The Xavier University</i> . . . . .	54	University, Accreditation . . . . .	86
Organizations, Student . . . . .	50	Administration . . . . .	8
Non-Student . . . . .	55	Buildings . . . . .	34
Pershing Rifles . . . . .	55	Committees . . . . .	10
President's Council . . . . .	8	History of . . . . .	32
Philosophy . . . . .	108, 183	Institutional Memberships . . . . .	36
Physics . . . . .	112, 187	Objectives . . . . .	33
Placement Service . . . . .	39	Organizations . . . . .	50
Political Science . . . . .	114, 169	Presidents . . . . .	213
Pre-Dental Curriculum . . . . .	120	Services . . . . .	38
Pre-Engineering Curriculum . . . . .	122	Upper Division . . . . .	68, 73, 75
Pre-Medical Curriculum . . . . .	59, 118	Verkamp Debate Medal . . . . .	213
Probation . . . . .	70	Veterans, Admission of . . . . .	60
Psychology . . . . .	116, 188	Warned . . . . .	71
Publications . . . . .	54	Washington Oratorical Medal . . . . .	213
Quality Points . . . . .	69	Withdrawal, Graduate . . . . .	212
Refunds . . . . .	66	Undergraduate . . . . .	72
Regional Clubs . . . . .	53	Xavier Order of Military Merit . . . . .	55
		"Xavier Presents" . . . . .	54
		<i>Xavier University News, The</i> . . . . .	54
		Yearbook, <i>The Musketeer</i> . . . . .	54

## Wills and Bequests

Through the years, friends of Xavier University, by designating the University in their last wills, have expressed their appreciation for the devoted service and notable contributions made by the University.

Through a will, a friend of Xavier University can provide that the causes and ideals he or she has cherished in life will continue to enjoy support.

Gifts to the University may take the form of scholarships, of professorships, of additions to the material equipment, or of contributions to the permanent endowment fund. Special conditions may, of course, be attached to any gift.

Listed below is a Bequest Form which may be used to designate Xavier University in your will.

### FORM OF BEQUEST

I, \_\_\_\_\_ hereby give, bequeath and devise to Xavier University, an institution incorporated under the laws of the State of Ohio, and located in Cincinnati, Ohio, the following:

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for the uses and purposes of the said Corporation.

(Signed) \_\_\_\_\_

(Date) \_\_\_\_\_

Witnesses:

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"It is a bad will that has not the name of Our Lord among the heirs."—*Cardinal Manning*.

## Jesuit Educational Association Colleges and Universities

### ALABAMA

Spring Hill College, Spring Hill

### CALIFORNIA

Loyola University, Los Angeles 34  
University of Santa Clara, Santa Clara  
University of San Francisco, San Francisco 17

### COLORADO

Regis College, Denver 11

### CONNECTICUT

Fairfield University, Fairfield

### DISTRICT OF COLUMBIA

Georgetown University, Washington 7

### ILLINOIS

Loyola University, Chicago 26

### LOUISIANA

Loyola University, New Orleans 15

### MARYLAND

Loyola College, Baltimore 10

### MASSACHUSETTS

Boston College, Boston 67  
Holy Cross College, Worcester

### MICHIGAN

University of Detroit, Detroit 21

### MISSOURI

Rockhurst College, Kansas City 4  
St. Louis University, St. Louis 3

### NEBRASKA

The Creighton University, Omaha 2

### NEW JERSEY

St. Peter's College, Jersey City 2

### NEW YORK

Canisius College, Buffalo 8  
Fordham University, New York 58  
Le Moyne College, Syracuse 3

### OHIO

John Carroll University, Cleveland 18  
Xavier University, Cincinnati 7

### PENNSYLVANIA

St. Joseph's College, Philadelphia 31  
University of Scranton, Scranton 3

### WASHINGTON

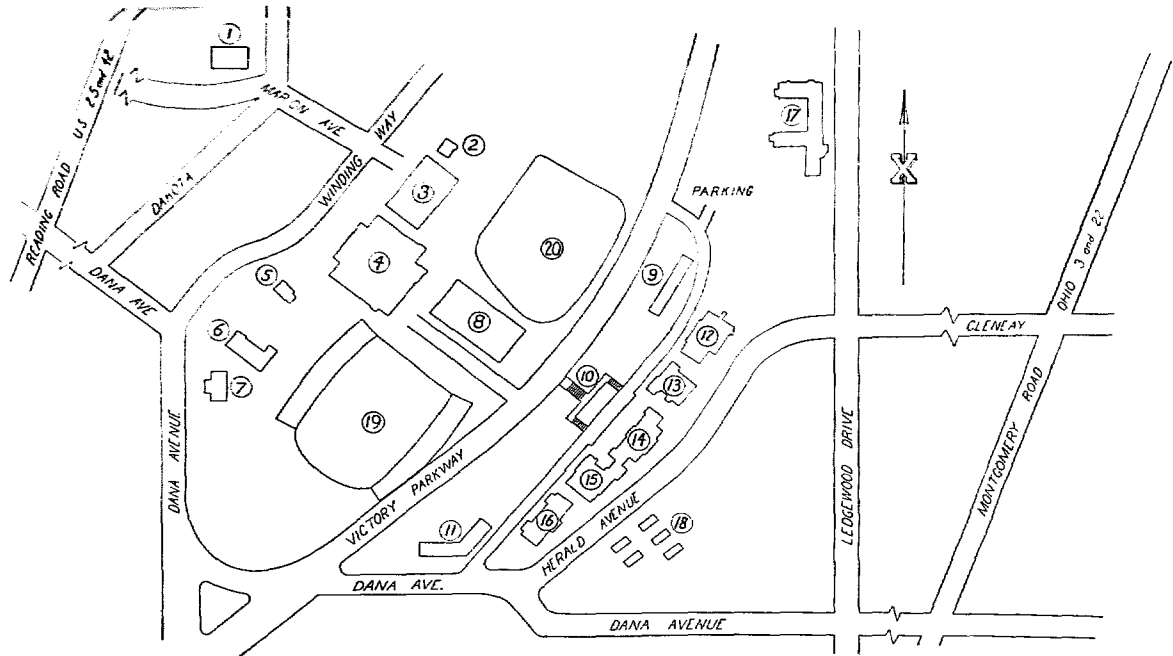
Gonzaga University, Spokane 11  
Seattle University, Seattle 2

### WEST VIRGINIA

Wheeling College, Wheeling

### WISCONSIN

Marquette University, Milwaukee 3



### XAVIER UNIVERSITY CAMPUS

- 1 - Marion Residence (dormitory)
- 2 - St. Barbara Hall (R.O.T.C.)
- 3 - R.O.T.C. Armory (rooms Arm. 1, 2, 3)
- 4 - Fieldhouse and Gymnasium
- 5 - Elet Hall Annex
- 6 - Elet Hall
- 7 - Campus Union House (cafeteria)
- 8 - Tennis courts
- 9 - North Hall (Offices of Dean of Men and Maintenance Department; maintenance equipment)

- 10 - O'Brien Terrace
- 11 - South Hall (book store; canteen)
- 12 - Logan Hall (chemistry building)
- 13 - Albers Hall (classrooms; offices of the President, Executive Vice-President, Graduate Division, Public Relations)
- 14 - Hinkle Hall (Offices of Student Counselor, Guidance and Placement, Institutional Research; Jesuit residence)

- 15 - Walter Seton Schmidt Library Building (Belarmine Chapel; classrooms)
- 16 - Alumni Hall (classrooms; offices of the Director of Admissions, Dean, Assistant Dean, Business Manager, Treasurer, Bursar, Registrar, Veterans' Counselor; faculty offices and lounge)
- 17 - Brockman Hall
- 18 - Herald Avenue FHA dormitories
- 19 - Stadium
- 20 - Athletic Field

