Fall 1967

1967-1968 Xavier University College of Arts and Sciences, College of Business Administration, Evening College, Graduate School Course Catalog

Xavier University, Cincinnati, OH

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Catalogue 1967-1968
The College of Arts and Sciences
The College of Business Administration
The Evening College
The Graduate School

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Transcripts and certificates of honorable dismissal:
The Registrar

Tuition and payment of bills:
The Bursar

Veterans' education:
Director of Veterans' Education
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Information concerning the Evening College is included under programs of the College of Arts and Sciences and the College of Business Administration.
University Calendar, 1967 - 1968

First Semester

**SEPT. 19, TUESDAY.**
Out-of-town freshmen and transfer students report to Director of Housing, 9:00 A.M. - 5:00 P.M.

**SEPT. 20, WEDNESDAY.**
Registration of local seniors (M-Z) 9:00 - 10:15 A.M. (94 or more credit hours) A-L 10:15 - 11:30 A.M.
Registration of local juniors (A-L) 1:00 - 3:00 P.M. (63 to 93 credit hours) M-Z 2:30 - 3:30 P.M.
Freshmen and transfer students' Orientation begins, 9:00 A.M. All new students, local and out-of-town, are required to attend
Registration of local sophomores (M-Z) 9:00 - 10:15 A.M. (30 to 62 credit hours) A-L 10:15 - 11:30 A.M.

**SEPT. 21, THURSDAY.**
Registration of freshmen (less than 30 credit hours) alphabetically, as assigned during Orientation, 1:00 - 4:00 P.M.
Registration of freshmen, as assigned, 9:00 - 11:30 A.M. and 1:00 - 3:00 P.M.
Registration, Graduate and Evening, 5:30 - 9:00 P.M.

**SEPT. 22, FRIDAY.**
Registration, Graduate and Evening, 6:30 - 9:00 P.M.

**SEPT. 23, SATURDAY.**
Registration, Graduate and Evening, 9:00 A.M.

**SEPT. 25, MONDAY.**
Registration, Graduate and Evening, 9:00 - 11:15 A.M. and 1:00 - 4:00 P.M.
Registration of out-of-town undergraduate students, 9:00 - 11:15 A.M. and 1:00 - 4:00 P.M.
Registration, Graduate and Evening, 5:30 - 9:00 P.M.
Instruction begins, undergraduate day college, 8:30 A.M.
Registration, Graduate and Evening, 6:30 - 9:00 P.M.

**SEPT. 26, TUESDAY.**
Instruction begins, Graduate School and Evening College.

**OCT. 3, TUESDAY.**
Final day of late registration, undergraduate day colleges
Mass of the Holy Spirit, 9:00 A.M.; no classes before 4:00 P.M.

**OCT. 4, WEDNESDAY.**
Mass of the Holy Spirit, 9:00 A.M.; no classes before 4:00 P.M.

**OCT. 31, TUESDAY.**
Final date for assignment of “W” in undergraduate day colleges
Feast of All Saints, holyday of obligation; no classes before 4:00 P.M.

**NOV. 1, WEDNESDAY.**
Mid-semester grades due in the undergraduate day and evening divisions

**NOV. 4, SATURDAY.**
Graduate School, Foreign Language Examinations, 8:00 P.M.

**NOV. 7, TUESDAY.**
Memorial Mass for deceased benefactors, professors, alumni, 9:00 A.M.; no classes before 4:00 P.M.

**NOV. 13, MONDAY.**
Mid-semester grades due in the undergraduate day and evening divisions

**NOV. 22, WEDNESDAY.**
Thanksgiving recess begins, 4:00 P.M., all divisions

**NOV. 27, MONDAY.**
Classes resume, 8:30 A.M., all divisions

**NOV. 29, TUESDAY.**
Pre-registration, undergraduate day colleges

**DEC. 12, TUESDAY.**
Feast of the Immaculate Conception, a holyday of obligation; no classes before 4:00 P.M.

**DEC. 8, FRIDAY.**
Christmas vacation begins at 4:00 P.M.
Second Semester

**Registration of local seniors**
- M-Z 9:00 - 10:15 A.M.
- FEB. 1, THURSDAY
- Registration of local juniors M-Z 1:00 - 2:30 P.M.
- A-L 2:30 - 3:30 P.M.
- FEB. 2, FRIDAY
- Registration of local sophomores A-L 9:00 - 10:15 A.M.
- M-Z 10:15 - 11:30 A.M.
- FEB. 3, SATURDAY
- Registration, Graduate and Evening, 6:30 - 9:00 P.M.

**January**
- JAN. 3, WEDNESDAY: Classes resume, 8:30 A.M., all divisions
- JAN. 6, SATURDAY: Senior comprehensive examinations
- JAN. 9, TUESDAY: Final date for withdrawal from courses
- JAN. 12, FRIDAY: Final date for submission of theses, first semester, undergraduate day colleges
- JAN. 23, TUESDAY: Semester examinations, all divisions
- JAN. 29, MONDAY: End of first semester, all divisions
- JAN. 29, MONDAY: First major retreat; open to all students
- JAN. 31, WEDNESDAY: Registration of local freshmen A-L 1:00 - 2:30 P.M.
  M-Z 2:30 - 3:30 P.M.

**February**
- FEB. 1, THURSDAY: Registration of local juniors M-Z 1:00 - 2:30 P.M.
  A-L 2:30 - 3:30 P.M.
- FEB. 2, FRIDAY: Registration of local sophomores A-L 9:00 - 10:15 A.M.
  M-Z 10:15 - 11:30 A.M.
- FEB. 3, SATURDAY: Registration, Graduate and Evening, 9:00 A.M. - 3:00 P.M.
- FEB. 5, MONDAY: Registration of out-of-town undergraduate students.
  9:00 - 11:15 A.M. and 1:00 - 4:00 P.M.
- FEB. 6, TUESDAY: Instruction begins 8:30 A.M., all divisions
- FEB. 13, TUESDAY: Final day of late registration, undergraduate day colleges

**March**
- MAR. 11, MONDAY: President's Day; no classes before 4:00 P.M.
- MAR. 12, TUESDAY: Final date for assignment of "W" in undergraduate day colleges
- MAR. 16, SATURDAY: Graduate School, Foreign Language Examinations, 2:00 P.M.
- MAR. 27, WEDNESDAY: Final date for filing application for degrees to be granted in June.
- APR. 2, TUESDAY: Mid-semester grades due, undergraduate day and evening divisions
- APR. 10, WEDNESDAY: Easter recess begins after last class, all divisions
- APR. 11, THURSDAY: Second major retreat
- APR. 13, SATURDAY
- APR. 18, THURSDAY: Classes resume, Graduate and Evening divisions

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APR. 22, MONDAY...... Classes resume, 8:30 A.M., undergraduate day colleges
APR. 30, TUESDAY...... Graduate Record Examinations
MAY  6, MONDAY...... Honors Convocation
MAY  1, WEDNESDAY...... through
MAY 14, TUESDAY...... Pre-registration, undergraduate day colleges
MAY 23, THURSDAY...... through
MAY  4, SATURDAY...... Senior Comprehensive Examinations
MAY  7, TUESDAY...... Final date for withdrawal from courses
MAY 10, FRIDAY...... Final date for submission of senior theses
MAY 21, TUESDAY...... through Semester examinations, Graduate and Evening divisions
MAY 27, MONDAY...... through Semester examinations, undergraduate day colleges
MAY 22, WEDNESDAY...... Second semester ends
JUNE  5, WEDNESDAY...... Commencement exercises

Summer Sessions, 1968
JUNE 17, MONDAY...... First summer session begins, all divisions
JULY  4, THURSDAY...... Independence Day, holiday for all divisions
JULY 26, FRIDAY...... First summer session ends, all divisions
JULY 26, FRIDAY...... Graduate School, Foreign Language Examinations, 2:00 P.M.
JULY 29, MONDAY...... Second summer session begins
AUG. 15, THURSDAY...... Feast of the Assumption, holyday of obligation; no holiday
AUG. 30, FRIDAY...... Second summer session ends

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Members of the Faculty—1966-1967

The year mentioned in parenthesis is the date of appointment.

LOUISE L. ADAMS, A.B., M.A. (1965)
Lecturer in Philosophy

S./Sgt. ROBERT C. ALEXANDER (1964)
Assistant Instructor in Military Science

Associate Professor of Education

EDWARD J. ARLINGHAUS, M.B.A. (1960)
Assistant Professor of Business Administration; Director, Graduate Program in Hospital Administration

ROBERT ASHMORE, Ph.D. (1966)
Assistant Professor of Philosophy

GUSTAVE K. BAHN, Jr., B.S., M.S., Ph.D. (1965)
Lecturer in Physics

Assistant Professor of Theology

Associate Professor of Accounting
ROBERT G. BENKERT, M.Ed. (1958)
Lecturer in Business Administration

HARVEY BERLIN, B.S., M.S., Ph.D. (1967)
Lecturer in Psychology

REV. CLIFFORD S. BESSE, S.J., A.B., Ph.D. (1952)
Professor of Economics; Assistant to the Dean, College of Arts and Sciences

VYTAUTAS J. BIELIAUSKAS, A.B., M.A., Ph.D. (1958)
Professor of Psychology; Chairman, Department of Psychology

KENNETH BISHOP, B.S., M.Ed. (1966)
Lecturer in Education

Lecturer in Education

JOSEPH E. BOURGEOIS, A.B., A.M., Ph.D. (1945)
Professor of Modern Languages; Chairman, Department of Modern Languages

REV. EDWARD A. BRADLEY, S.J., A.B., M.S. (1957)
Assistant Professor of Physics

Assistant Professor of Marketing

MARGARET BRAUN, B.S., M.A. (1966)
Lecturer in Psychology

MARTIN BROWN, B.S., M.S. (1966)
Lecturer in Mathematics

REV. EDWARD B. BRUEGGEMAN,
Professor of Theology; Chairman, Department of Theology

THOMAS J. BRUEGGEMAN, B.S. in Ed., M.S. (1957)
Assistant Professor of Mathematics

W. THOMAS BRYAN, B.S., M.A., Ph.D. (1958)
Professor of Business Administration

ANTHONY J. BRYSKI, Ph.D. (1966)
Associate Professor of Industrial Relations

Assistant Professor of Classical Languages and English

KENNETH BUSCH, M.S. (1966)
Lecturer in Statistics

ROSELLA BUSEMEYER, M.S. (1966)
Lecturer in Chemistry

Sgt./Maj. GEORGE A. BUTCHER (1966)
Assistant Instructor in Military Science

S./Sgt. JACK D. CAMPBELL (1967)
Assistant Instructor in Military Science

Assistant Professor of Theology

JAMES L. CENTNER, Ph.B., M.B.A. (1955)
Adjunct Associate Professor of Business Administration

GEORGE CERBUS, A.B., M.S., Ph.D. (1966)
Assistant Professor of Psychology

*Benito J. Cerimele, B.S., M.S., Ph.D. (1960)
Assistant Professor of Mathematics

ROBERT F. CISSELL, B.S. in E.E., M.S. (1945)
Associate Professor of Mathematics

Assistant Professor of Military Science

Professor of Education and Psychology

ALEXANDER COHEN, B.S., M.S., Ph.D. (1962)
Adjunct Assistant Professor of Psychology

LT. COL. JOHN D. COLEMAN, JR., B.S. (1966)
Assistant Professor of Military Science

THOMAS P. COLLINS, A.B., M.S. (1960)
Lecturer in Mathematics

REV. EDWARD CONNELLY, M.S.W., S.T.D. (1956)
Lecturer in Education

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>REV. BRIAN W. CONNOLLY</td>
<td>A.B., M.A., S.T.L., Ph.D. (1961)</td>
<td>Assistant Professor of English</td>
</tr>
<tr>
<td>Mark Cummings, M.S.</td>
<td>(1962)</td>
<td>Lecturer in Mathematics</td>
</tr>
<tr>
<td>CHARLES J. CUSICK</td>
<td>B.S., M.S. (1955)</td>
<td>Assistant Professor of Biology</td>
</tr>
<tr>
<td>William Daily, B.S.B.A., M.Ed.</td>
<td>(1967)</td>
<td>Lecturer in Education</td>
</tr>
<tr>
<td>Kathleen Davidoff, M.S.</td>
<td>(1962)</td>
<td>Instructor in Mathematics</td>
</tr>
<tr>
<td>REV. ELLIOTT DAVIDSON</td>
<td>O.F.M., M.A. (1966)</td>
<td>Lecturer in English</td>
</tr>
<tr>
<td>*James A. Delaney, B.S., M.S.</td>
<td>(1961)</td>
<td>Assistant Professor of Mathematics</td>
</tr>
<tr>
<td>Marjorie C. Dew, A.B., M.A., Ph.D.</td>
<td>(1965)</td>
<td>Assistant Professor of English</td>
</tr>
<tr>
<td>Edward A. Doering, A.B., LL.B., LL.M., S.J.D.</td>
<td>(1954)</td>
<td>Assistant Professor of English</td>
</tr>
<tr>
<td>Lawrence I. Donnelly, A.B., Ph.L., M.B.A., Ph.D.</td>
<td>(1956)</td>
<td>Associate Professor of Business Administration and Economics</td>
</tr>
<tr>
<td>COL. Richard L. Dooley, Ph.B., M.B.A.</td>
<td>(1965)</td>
<td>Professor of Military Science; Chairman, Department of Military Science</td>
</tr>
<tr>
<td>George R. Dresse, A.B., M.A.</td>
<td>(1966)</td>
<td>Associate Professor of Economics and Finance</td>
</tr>
</tbody>
</table>
Lecturer in Finance

DOUGLAS FLANIGAN, A.B., M.A. (1964)
Lecturer in English

DAVID C. FLASHEIDER, B.S., M.S. (1962)
Assistant Professor of Mathematics

THOMAS J. FLAUTT, Ph.D. (1965)
Lecturer in Chemistry

Lecturer in Accounting

Associate Professor of Communication Arts; Chairman, Department of Communication Arts

RICHARD FOGG, B.S.E. (1965)
Lecturer in Marketing

Assistant Professor of Psychology

JOSEPH FONDACARO, A.B. (1966)
Laboratory Teaching Assistant

ERNEST FONTANNA, M.A. (1966)
Assistant Professor of English

ROGER A. FORTIN, M.A. (1966)
Assistant Professor of History

MSGR. WILLIAM J. FRANER, M.A. (1965)
Lecturer in Education

JUDITH FRANKEL, B.A., M.A., Ph.D. (1963)
Adjunct Assistant Professor of Psychology

MAJ. DONALD S. FUJITANI, B.A. (1966)
Assistant Professor of Military Science

JAMES P. GAFFNEY, A.B., M.Ed. (1960-1962; 1965)
Instructor in Education; Assistant to the Dean of the Graduate School

FRANK GALLENSTEIN, B.S., M.S. (1966)
Lecturer in Education

RICHARD J. GARASCIA, B.S., M.S., Ph.D. (1942)
Professor of Chemistry

MARIUS P. GAROFALO, Ph.D. (1965)
Adjunct Assistant Professor of Education

LEONARD C. GARTNER, A.B., LL.B. (1946)
Lecturer in Communication Arts and Business Administration

Professor of Philosophy

JAMES GERACI, B.S. (1966)
Lecturer in Economics

Lecturer in Theology

JOHN G. GILSDORF, B.S., M.S. (1965)
Lecturer in Biology

JAMES A. GLENN, A.B., M.A. (1956)
Assistant Professor of English

JAMES P. GLENN, A.B. (1929-1954; 1962)
Assistant Professor of English

RABBI ALBERT A. GOLDMAN, Ph.D. (1966)
Lecturer in Theology

EDWARD J. GOODMAN, A.B., M.A., Ph.D. (1950)
Professor of History and Political Science

DONALD W. GRACE, Ph.D. (1966)
Lecturer in Mathematics

Lecturer in Accounting

J. ALFRED GRATTON, M.B.A. (1957)
Adjunct Associate Professor of Business Administration

REV. FRANCIS GREEN, S.J., M.S. (1966)
Lecturer in Mathematics
RICHARD A. GROSSE, JR., M.B.A. (1965)  
Instructor in Business Administration

STANLEY F. GUMERLOCK, B.S. (1962)  
Lecturer in Hospital Administration

GREGORY G. GUZMAN, M.A. (1985)  
Lecturer in History

JOHN W. HAEFELE, A.B., M.S., Ph.D. (1965)  
Lecturer in Communication Arts

THOMAS J. HAILSTONES, B.S., M.A., Ph.D. (1952)  
Professor of Economics; Dean, College of Business Administration

Associate Professor of Education; Director of Physical Education

Instructor in Economics and Finance

Assistant Professor of Education; Assistant Dean, Graduate School

PAUL W. HARKINS, A.B., M.A., Ph.D., LL.D. (1946)  
Professor of Classical Languages; Chairman, Department of Classical Languages

JOHN B. HART, B.S., M.S. (1960)  
Associate Professor of Physics; Chairman, Department of Physics

THOMAS R. HAUSER, B.S., M.S. (1962)  
Lecturer in Chemistry

J. KANEY HAYES, A.B., M.A., Ph.D. (1958)  
Professor of Business Administration and Economics; Chairman, Department of Management and Industrial Relations; Associate Dean, College of Business Administration

CAROL HELMERS, B.S., M.B.A. (1966)  
Lecturer in Marketing

ROBERT H. HELMES, B.S., M.A. (1950)  
Lecturer in Management

DALE HENNIE, B.S., M.A. (1965)  
Lecturer in History

REV. WILLIAM P. HETHERINGTON, S.J., Ph.D., S.T.L. (1945)  
Professor of Classical Languages; Director of Honors Course

DANIEL J. HIGGINS, B.S., M.S., Ph.D. (1965)  
Associate Professor of Biology

ERNST HILMER, A.B., S.T.B. (1966)  
Instructor in Philosophy

RONALD A. HILVERS, A.B., M.Ed. (1964)  
Lecturer in Education

Lecturer in Industrial Relations

Assistant Professor of Theology

C. LESLIE HOWARD, B.A., M.A. (Oxon.) (1958)  
Professor of Classical Languages

CAPT. KENNETH A. INGRAM, B.S. (1965)  
Assistant Professor of Military Science

Assistant Professor of Mathematics

MARK IUTCIOVICH, M.A., Ph.D.  
Lecturer in Sociology

MICHAEL J. JANOVIC, B.S.I.M. (1966)  
Instructor in Marketing

Assistant Professor of Political Science

MARY JANE JOHNSON, B.S., M.Ed. (1966)  
Directress, Montessori Class

ROBERT G. JOHNSON, B.S., Ph.D. (1954)  
Professor of Chemistry; Chairman, Department of Chemistry

ROBERT S. JONES, B.S., M.A. (1966)  
Lecturer in Psychology

Assistant Professor of History
MARVIN L. KAPLAN, A.B., Ph.D. (1967)
Professor of Psychology

Instructor in Theology

Professor of Philosophy; Chairman, Department of Philosophy

ALBERT J. KLEE, B.Ch.E., M.S., M.B.A., M.Ch.E. (1960)
Adjunct Associate Professor of Business Administration

ALFRED KLEINE-KREUTZMAN, A.B. (1966)
Instructor in English

ROBERT C. KLEKAMP, B.S., M.B.A. (1957)
Assistant Professor of Business Administration

JOSEPH J. KLINGENBERG, B.S., M.S., Ph.D. (1949)
Professor of Chemistry

CAPT. JOHN J. KOISCH, B.S. (1966)
Assistant Professor of Military Science

S.F.C. JOSEPH KORMANIK (1965)
Assistant Instructor in Military Science

EARL J. KRONENBERGER, B.S., M.A., Ph.D. (1962)
Associate Professor of Psychology

BRO. WILLIAM KUHNS, S.M., A.B. (1967)
Lecturer in Communication Arts

CAPT. JOHN R. KUSHNER, B.S. (1964)
Assistant Professor of Military Science

OTTO A. KVAPIL, B.S., M.A. (1957)
Assistant Professor of Communication Arts

GLEN A. LAGRANGE, A.B., M.A. (1947)
Associate Professor of Education and Psychology

Associate Professor of Mathematics; Chairman, Department of Mathematics; Director, Computer Center

ROBERT J. LAWLESS, A.B., M.A. (1947)
Professor Emeritus of Education

DAVID A. LAYCOCK, M.S. (1966)
Instructor in Biology

DONALD L. LEONARD, A.B. (1964)
Instructor in Modern Languages

JOSEPH LINK, JR., Ph.B., M.Ed., Ed.D., D.Sc. (Hon.) (1946)
Professor of Business Administration and Economics

Associate Professor of History

WALTER W. LIPPERT, JR., A.B., M.S., Ph.D. (1965)
Adjunct Assistant Professor of Psychology

Lecturer in Communication Arts

GILBERT C. LOZIER, A.B., M.Ph., Ed.D. (1948)
Professor of Education

WALTER LUDMAN, B.S., M.S. (1966)
Lecturer in Statistics

PAUL C. LUNSFORD, B.S. (1966)
Lecturer in Communication Arts

EDGAR J. MACK, JR., M.A. (1965)
Lecturer in Communication Arts

THOMAS J. MAGNER, A.B., M.A. (1957)
Assistant Professor of Philosophy

Associate Professor of Accounting

ROBERT E. MANLEY, B.S., M.A., LL.B. (1962)
Adjunct Assistant Professor of Economics

WILLIAM MARCAJIO, B.S., M.S. (1934)
Associate Professor of Physics

S./SGT. WAYNE W. MARCH (1967)
Assistant Instructor in Military Science

ALVIN C. MARRERO, A.B., M.A. (1957)
Assistant Professor of Philosophy
JOHN C. MARTIN, B.Sc., M.Ed. (1966)  
Instructor in Education

FRANK MASTRIANNA, B.S., M.A., M.C.P. (1964)  
Instructor in Economics

JOHN G. MAUPIN, B.S., M.A. (1946)  
Assistant Professor of Communication Arts

Professor of Education; Chairman, Department of Education;  
Dean, Graduate School

JOHN E. MCDavid, B.S., M.B.A., Ph.D. (1964)  
Assistant Professor of Marketing; Chairman, Department of  
Marketing

REV. JOHN A. McEvoy, S.J., M.A. (1931-1934; 1965)  
Assistant Professor of Theology

LEO F. McMULLIN, A.B., M.B.A. (1956)  
Adjunct Associate Professor of Marketing

REV. RICHARD J. McPARTLIN, S.J.,  
A.B., M.A., Ph.L., S.T.L. (1962)  
Instructor in Philosophy

FRANK McVAY, M.A. (1966)  
Assistant Professor of History

RICHARD J. MEISTER, M.A. (1965)  
Instructor in History

FRANK MERCURIO, B.S. (1966)  
Lecturer in Philosophy

CHARLES MILLER, B.S., M.A. (1964)  
Lecturer in Psychology

RAYMOND E. MILLER, B.S., Ph.D. (1965)  
Assistant Professor of Physics

IDA MOLINA, B.S. (1966)  
Lecturer in Modern Language

JAMES M. MORRIS, A.B., M.A. (1965)  
Lecturer in History

HAROLD W. MORSE, M.Ed. (1963)  
Adjunct Assistant Professor of Education

PHILIP J. MORSE, B.S., M.Ed. (1964)  
Instructor in Education

JOHN L. MUETHING, A.B., LL.B. (1951)  
Lecturer in Business Administration

Lecturer in English

JOHN MUNCH, B.S.  
Laboratory Teaching Assistant

ROBERT J. MURRAY, A.B., M.A., Ph.D. (1960)  
Associate Professor of Classical Languages

JOHN F. NIEHAUS, B.S., M.S. (1966)  
Instructor in Mathematics; Supervisor, Computer Center

DONALD NOVAK, A.B., M.A. (1966)  
Lecturer in Philosophy

EDWARD J. O'CONNELL, A.B., M.B.A. (1960)  
Adjunct Assistant Professor of Marketing

Assistant Professor of Theology; University Chaplain

RICHARD T. O'NEILL, B.S., M.S., Ph.D. (1959)  
Associate Professor of Chemistry

Associate Professor of Philosophy

Assistant Professor of Education

REV. JOSEPH PENGERGAST, S.J., M.A., Ph.D. (1964)  
Associate Professor of Classical Languages; Dean, Milford College

Professor of Biology; Chairman, Department of Biology

REV. DUSAN PETROVICH, M.A. (1966)  
Lecturer in Theology
Lecturer in English

MARK E. PLAGEMAN, A.B., M.A. (1964)
Lecturer in Modern Languages

Assistant Professor of Sociology

GERALD QUATMAN, B.S., M.A., Ph.D. (1962)
Associate Professor of Psychology

NELL RASMUSSEN, M.B.A. (1965)
Lecturer in Business Administration

Lecturer in Accounting

M/Sgt. JOHN V. REYNOLDS (1966)
Assistant Instructor in Military Science

PAUL J. RIESelman, A.B., M.A. (1948)
Assistant Professor of Modern Languages

S.F.C. GEORGE L. ROss, JR. (1965)
Assistant Instructor in Military Science

HILDA ROTHSCHILD, A.B., M.A. (1965)
Adjunct Assistant Professor of Education

*JOHN ROTHWELL, B.S.B.A., M.B.A. (1964)
Instructor in Business Administration

ROBERT A. RUNDLE, B.S., M.S.W. (1965)
Lecturer in Sociology

Sr. MARY JOHN BOsCO RYAN, R.G.S., A.B., M.A., Ph.D. (1961)
Adjunct Assistant Professor of Psychology

REV. THOMAS G. SAVAGE, S.J., M.A. (Oxon.) (1962)
Assistant Professor of English; Chairman, Department of English

Lecturer in Accounting

KENNETH T. SCHRURER, M.Ed. (1963)
Assistant Professor of Education


GEORGE SCHLEGEL, C.P.A. (1960)
Lecturer in Accounting

HANS SCHMIDT, JR., A.B., B.S., M.A., Ph.D. (1967)
Associate Professor of Psychology

REV. ROBERT W. SCHMIDT, S.J., M.A., Ph.D. (1964)
Professor of Philosophy

Assistant Professor of English

Associate Professor of Economics

VICTOR SCHURR, A.B., M.A. (1964)
Instructor in Modern Languages

Lecturer in Business Administration

ROMAN J. SCHWEIKERT, A.B., M.A. (1964)
Assistant Professor of Education and English

Assistant Professor of Accounting

REV. ALFRED E. SCHWIND, S.J., M.A. (1959)
Assistant Professor of Theology

AUGUST SEHER, A.B., M.A. (1966)
Lecturer in History

LAWRENCE W. SELZER, B.S.C., P.A. (1945)
Lecturer in Accounting

NICHOLAS A. SETA, B.S., M.Ed. (1961)
Adjunct Assistant Professor of Psychology

JOSEPH H. SETZELMAYER, LL.B. (1945)
Lecturer in Business Administration

Instructor in English

W. SAM SHAW, M.B.A. (1963)
Lecturer in Business Administration
  Professor of History

Paul L. Simon, M.A., Ph.D. (1965)
  Assistant Professor of History and Political Science; Chairman, Department of History and Political Science

  Assistant Professor of Military Science

  Assistant Professor of Accounting

Clarence A. Sommer, B.S., M.A., Ph.D. (1948)
  Professor of Education; Acting Director, Teacher Education and Placement

Louis Stadelmann, S.J., M.A. (1964)
  Lecturer in Modern Languages

  Assistant Instructor in Military Science

Arthur B. Stevenson, B.A., Ph.D. (1965)
  Assistant Professor of Psychology

Sister Jane Steier, O.S.U., M.A., Ph.D. (1966)
  Assistant Professor of Theology and Placement

Richard E. Strenk, B.S., M.S. (1964)
  Lecturer in Mathematics

  Professor Emeritus of English

  Lecturer in Theology

John F. Tafuri, B.S., M.S., Ph.D. (1951)
  Associate Professor of Biology

  Assistant Professor of Military Science

  Assistant Professor of Chemistry


Charles Thieman, D.B.A. (1965)
  Lecturer in Business Administration

  Lecturer in Business Administration

Terry P. Toepker, B.S. (1964)
  Instructor in Physics

John Totten, M.S. (1967)
  Lecturer in Mathematics

  Assistant Professor of Philosophy

  Assistant Professor of Psychology

  Assistant Professor of Psychology

Charles Uhl, B.S., M.S. (1965)
  Lecturer in Mathematics

Charles W. Vaughan, M.Ed. (1965)
  Lecturer in Education and Communication Arts

Matias G. Vega, Ph.D. (1954)
  Associate Professor of Modern Languages

Rev. Leo J. Vollmayer, S.J., A.B., M.S. (1942)
  Professor of Physics

  Instructor in Classical Languages

Wesley P. Vordenberg, A.B., M.A., Ph.D. (1965)
  Associate Professor of Education and English

D. A. Wells, B.S., M.S., Ph.D. (1966)
  Visiting Professor of Physics

Thomas Welter, M.S. (1965)
  Lecturer in Mathematics

Karl P. Wentersdorf, M.A., Ph.D. (1956)
  Professor of English
FREDERICK G. WERNER, A.B., M.A., Ph.D. (1960)
Associate Professor of Physics

MAXWELL WERNER, M.Ed. (1965)
Lecturer in Education

JOSEPH H. WESSLING, B.S., M.A. (1964)
Assistant Professor of English

Assistant Professor of Theology; Associate Registrar

BRANDON H. WIESS, Ph.D. (1966)
Lecturer in Chemistry

LESLIE WILD, Ph.D. (1966)
Lecturer in Chemistry

WILLIAM H. WILLER, A.B., M.A., Ph.D. (1946)
Professor of English

JAMES A. WILLIAMS, A.B., M.A. (1964)
Lecturer in Economics

Professor of Accounting; Chairman, Department of Accounting

Associate Professor of Economics and Finance; Chairman, Department of Economics and Finance

REV. BERNARD J. WUELLNER, S.J., M.A., Ph.D. (1967)
Professor of Philosophy

SISTER IGNATIUS MARIE WULFTANGE, S.N.D. de N., Ph.D. (1966)
Lecturer in Education

COLIN YACKS, B.S., M.Ed. (1966)
Lecturer in Communication Arts

CHARLES ZIMMER, B.S., M.A. (1963)
Lecturer in Business Administration

OLEG ZINAM, B.S., M.B.A., Ph.D. (1958)
Lecturer in Modern Languages

Graduate Assistants

Chemistry
DAVID J. BILESKY, B.S.
C. MICHAEL BUERKLE, B.S.
LARRY DAVIS, B.S.
CHARLES S. FRIEDMAN, B.S.
RICHARD M. FUCHS, B.S.
PALANIAPPA C. GANDHI, B.S., M.S.

English
ROBERT ENGLERT, B.S.
THOMAS KELLER, B.S.
ANTHONY MAZZARO, B.S.

History
THEODORE DEUCHER, B.S.
MARK HEAVY, B.S.
JOHN KNEUVEN, B.S.

Mathematics
KURT DEW, B.S.
RICHARD DIETZ, B.S.
WILLIAM KLUS, B.S.

Physics
JOHN SWYERS, B.S.

Psychology
DEWEY BAYER, B.S.
MICHAEL BROSNAN, A.B.
JOHN P. CONROY, B.A.
ROBERT DINERMAN, B.A.

DORIS S. KNECHT, A.B., B.S.
DONALD M. KULICH, B.S.
PAUL J. LYNCH, A.B.
ROGER A. MADAR, B.S.
LEO H. METZGER, B.S.
ROBERT W. WATSON, B.A.
JOHN WESTENDORF, B.S.
ROBERT RODIER, B.A.
GEORGE SEIDENBECKER, B.A.
MICHAEL McGREEVEY, B.S.
THOMAS ORTMAN, B.S.
RICHARD MENNINGER, B.S.
ROBERT STRUNK, A.B.
CAROL WELCH, B.S.

VINCENT GENNACO, B.A.
ELIZABETH MALONEY, A.B.
GARY VOEGELE, A.B.
LAWRENCE WELLING, S.J., B.S.
The University

History

Xavier University was founded in 1831 as a literary institute by 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.

In 1840, his successor, Bishop John Baptist Purcell, invited the Jesuits 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.

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.

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.

The College of Business Administration

After operating its business departments for many years as a part of the College of Arts and Sciences, the University established the College of Business Administration on September 1, 1961.
The College of Business Administration conforms to the general principles and objectives of the University in particular, and of Jesuit education in general. It recognizes the indispensability of cultural subjects which motivate the higher powers of the mind and spell the difference between an educated man and a mere technician.

The objectives, therefore, of the College of Business Administration are twofold: 1. The development of the cultural, the intellectual, and the moral qualities of the student; 2. Adequate preparation in areas of business administration to help the student to a position of responsibility in the business world.

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 Graduate School

The Graduate School has offered programs leading to graduate degrees since 1947. Degrees conferred are the Master of Arts, the Master of Science, the Master of Education, and the Master of Business Administration.

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.

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 and by the Board of Regents of the University of the State of New York. It is also approved by the American Chemical Society for its training in chemistry.

Institutional Memberships

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 National Association of College and University Summer Sessions; The American Council on Education; The Association 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 Education 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 Association of Collegiate Registrars; The American Association of Colleges for Teacher Education; The American Mathematical Society; The Association of College Unions; The National Association of College and University Food Services; The National Association of College Stores; and The United States Field Artillery Association.

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, psychology, and public relations.

The Karl J. Alter Classroom Building, dedicated in 1960 to honor the Archbishop of Cincinnati, contains all major academic administration offices, 32 classrooms, four seminar rooms, faculty and student lounges, and a studio for closed-circuit television. The Edward H. Kelley Lecture Hall seats 322 in theater-type chairs with movable tablet arms. The building is air-conditioned.

Alumni Hall, erected in 1920, is the gift of the alumni to the University on its diamond jubilee. It contains the Department of Physics, the Geoghegan Memorial Language Laboratory, classrooms, and offices.

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. Boylan Hall commemorates the memory of the late Rev. Murtha J. Boylan, S.J., professor of psychology at Xavier for many years. It houses the Assistant to the President and faculty offices.

The Walter Seton Schmidt Building contains offices of the Treasurer and the Bursar, faculty offices, and classrooms. The McDonald Memorial Library, completed in 1966, is the gift of the Walter A. and George McDonald Foundation in memory of Andrew J. and Mary McDonald. This air-conditioned building seats 700 students. The open shelves have a capacity of 350,000 volumes, and there is a closed stack area in the Schmidt Building for an additional 80,000 volumes. An enclosed garden area at the rear of the building provides space for future expansion of the building.

Thomas J. Logan Chemistry Building, erected in 1952-1953, is a modern science building. The second level contains the Albert D. Cash Memorial Room.

Residence halls include the following: Brockman Hall, a campus residence for 300 men, was dedicated in May, 1955, to the memory of the Very Rev. Hubert F. Brockman, S.J., twenty-fourth president of the University.

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, a student residence, adjoins Elet Hall.

Hinkle Hall, the residence of the Jesuit faculty, was erected in 1920 by Mrs. Frederick Wallis Hinkle. It contains the Foss Memorial Chapel.

Husman Men's Residence Hall, erected in 1965, was made possible by a gift from Harry J. Husman in memory of his wife, Edna D. Husman. It provides living accommodations for 292 students in four-man suites and is entirely air-conditioned. It is the first building to be erected on the new North Campus.

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.

McGrath Hall, named in memory of the late Dr. Edward J. McGrath, '28, of the University medical staff, houses the University Health Service on Ledgewood Avenue.

Rattermann Hall, located at Redway and Dakota Avenues north of the main campus, was bequeathed to Xavier by the late Mrs. Henry C. Rattermann. This large English style residence provides a limited number of rooms for out-of-town students and also houses the Mermaid Tavern, the campus writers' club.

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 late Myers Y. Cooper.

North Hall, 1947, contains offices of the Department of Classics, the superintendent of buildings and grounds, and the maintenance department.

South Hall, 1947.

The University Center, 1965, combines all dining and snack-bar facilities for resident and commuting students, student activity offices, the University Book Store, recreation facilities, a 500-seat theatre, and the offices of the President of the University, the Executive Vice-President, the Vice-President, Student Affairs; the Dean of Men, and the Director of Student Aid and Placement. Erected at a cost of more than $2,000,000, the Center enjoys a commanding view of both Victory Parkway and the University Mall.

The Milford Novitiate Building, erected in 1926, on a one-hundred acre plot of ground in Milford, Ohio, houses members of the Society of Jesus in residence at the Milford Division of the University.

The Williams Memorial—St. Robert Bellarmine Chapel, dedicated on December 16, 1962, is the gift of the five children of the Charles F. Williams family in honor of their parents. The Chapel, a structurally unique building in Cincinnati, is sheltered by a saddle-shell roof of reinforced concrete resting on two massive concrete piers. The design was chosen to provide a maximum of clear floor space for a semi-circular seating arrangement to accommodate 500 worshippers. The Chapel is located at the head of the Mall, making it a feature of the inner campus.
University Services, Financial Aid, and Organizations

Religious Welfare

Xavier University uses various means of promoting a sincere Catholic way of living in its students. This influence permeates classroom and general campus atmosphere. From the celebration of Mass to a 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 for day undergraduates.

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 for day undergraduates.

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 for day undergraduates. Evening and graduate students may use some of the services.

Health examinations are required of all day 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 advisor 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 personal guidance the University provides University Chaplains, who see all students according to schedule or by appointment.

Psychological Services Center

The Center provides psychological services for students of Xavier University. It is equipped to handle behavioral problems in a variety of areas such as the choice of studies, of a school, or of an occupation; measurement of aptitudes, interests, abilities, etc.; failures in school or at work; difficulties in reading and unsatisfactory patterns of living. Psychological testing and vocational guidance, psychiatric evaluation, counseling, and psychotherapy are the fundamental services of the Center. Undergraduate full-time students are provided the testing, counseling, and vocational guidance services free, except for a $5.00 test materials' replacement charge.

The Placement Service

The Placement Service, located in the University Center, offers assistance to seniors, graduate students, and alumni in finding suitable employment commensurate with their education. The office provides occupational materials, placement guides, company literature, the College Placement Annual, other appropriate literature, and counseling service for those seeking career positions.

The Service arranges for representatives of companies and government agencies to interview students on campus, and aids as much as possible in arranging part-time and summer employment to meet the student’s financial needs or to provide suitable work experience for his proper development.

Student Housing

Brockman Hall, Elet Hall, Husman Hall, Rattermann Hall, and Marion Residence are equipped to accommodate full-time day male students. Dormitory costs are listed under Fees.

Out-of-town students must live on campus. Exceptions to this regulation are granted by the Student Welfare Committee.

Room reservations for the residence halls will not be held through the summer for students who are on academic probation at the end of the preceding spring term.
Libraries

The University Library, housed in the Walter Seton Schmidt Library Building since 1926, was moved into the new McDonald Memorial Library during 1966.

The Library contains many interesting and valuable collections among which are the Williams Bible Collection; 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. Microfilm and microcard readers are available. The total number of volumes is 110,000.

The University has been a constant beneficiary of friends whose contributions have increased the number of volumes. Since 1925 the Booklovers Association has been outstanding in its gifts and contributions.

The Saint Thomas Library, a branch of the University Library, is situated in Milford. A great part of the 39,000 volumes is in the field of English and classical literature.

Art Gallery

The Fine Arts Gallery, located in the Carriage House of Marion Hall, is intended to be a living facility—one that will present works of art available to the University through loans, gifts, and travelling exhibitions. It was opened in the summer of 1966.

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 kochchromes. 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.

The Department of Physics has one large general physics laboratory, a newly designed laboratory for advanced physics at the junior level, a newly equipped atomic-nuclear physics laboratory for seniors, an optics laboratory, an analog computer laboratory, and a complete machine shop.

The Experimental Psychology Laboratory, on the second floor of Albers Hall, possesses materials and scientific equipment for teaching experimental methods and techniques to undergraduate and graduate students. An animal research laboratory is maintained to provide subjects for the study and investigation of perception, learning, and motivation.

The seismology laboratory, used for research in seismology, at present uses some of the facilities of the physics laboratories in addition to office, library, and dark room in Fisher Lodge. For the purpose of advancing the science of seismology, Xavier University maintains a first class station and observatory. The station is located on a farm approximately 16 miles east of the University. It is equipped with three Benioff short-period seismographs that are kept in continuous operation. In addition, an instrument vault situated in the basement of the Schmidt Building is used for experimental purposes.

The chemistry laboratories are located in the Logan Chemistry Building. Five large laboratories are devoted to physical, organic, analytical, general inorganic chemistry, and graduate research. There are smaller laboratories for biochemistry, instrumental analysis, and radiochemistry.

The Department of Military Science is adequately equipped for the conduct of both field work and classroom instruction. Equipment available for practical exercises by ROTC students consists of individual hand weapons. Since Xavier's ROTC 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, 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. In addition, selected seniors may participate in the Army Flight Training Program conducted at a civilian Flight Training School and administered by the Department of Military Science.

The Geoghegan Memorial Language Laboratory, which was given by Miss Marie Geoghegan as a memorial to her three brothers, William A. Geoghegan, Thomas M. Geoghegan, and J. Paul Geoghegan, is located on the second floor of Alumni Hall. Equipped with thirty booths and eleven program sources, it provides supplementary drill for students who are taking any one of the modern foreign languages.
Computer Center

The University Computer Center, located in the Walter Seton Schmidt Building, provides a complete range of services connected with the analysis and processing of data by means of an electronic computer. These services, available to all branches of the University, may be categorized as services meeting University needs in the areas of education, research, and administration.

General computer orientation is available to the student body in lectures and demonstration periods in the Computer Center. Students can write simple FORTRAN programs after this orientation. Interested students and faculty members receive further instruction in programming in seminars offered each semester by the Computer Center staff. Facilities of the Center are also employed as a course supplement by professors in various disciplines.

Faculty and student researchers are also provided analysis, programming, and operating services in support of their projects by the Center. The high speed and accuracy of the computer is invaluable to research involving complex and extended computations.

The Center assists the administrative offices of the University in processing data. The Treasurer's office, the Registrar's office, and the Development office particularly make extensive use of the services of the Center.

The Center has the following equipment to service the computer needs of the University:

- IBM 1620 Computer with card input-output and 20,000 digits of core storage
- IBM 1443 High Speed Printer
- IBM 1311 Disk File with 2 million digits of memory storage
- IBM 407 Accounting Machine
- IBM 082 Sorter
- IBM 026 Keypunch

FINANCIAL AID—SCHOLARSHIPS

Types of Aid

1. Scholarships.
2. Student Loans.
4. The College Work-Study Program.
5. Part-Time Jobs.

Scholarships

Information on University scholarships is provided by the sources indicated upon request:

1. For Undergraduate, Day Division, Academic Scholarships: The Director of Placement and Student Aid.
2. For Honors Course Scholarships: The Director of the Honors Course.
3. For Evening College Scholarships: The Dean, Evening College.
4. For Graduate Scholarships: The Dean, Graduate School.
5. For Reserve Officer Training Corps Scholarships: The Professor of Military Science.
6. For Athletic Scholarships: The Director of Athletics.

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.

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.

Cincinnati Catholic High Schools

A scholarship is awarded annually to an outstanding student of the graduating class of each of the Catholic high schools for boys of Cincinnati on the recommendation of the principal. The value of the scholarship, which may amount to full tuition, is to be determined by each student's financial need.

Jesuit High Schools

A scholarship is awarded annually to an outstanding student of the graduating class of each of the Jesuit high schools of the Chicago and the Detroit provinces on the recommendation of the principal. The value of the scholarship, which may amount to full tuition, is to be determined by each student's financial need.

Honors Course Scholarships

Scholarships for study in the Honors Course are offered to students who have maintained an excellent academic standing in
high school. Four years of high school Latin are a prerequisite. The number of freshmen in this course is limited. For this reason the funds set aside for scholarships are normally adequate to provide partial or full tuition and, in some cases, help beyond tuition to a deserving student. The amount of the scholarship is determined partly by the academic record and partly by the real need of the applicant.

ROTC Scholarships

The Department of the Army annually awards two-year and four-year ROTC scholarships to outstanding students. Applications for the four-year scholarships must be made through the Army area HQ in the area of the student’s residence. For additional information, contact a high school guidance counselor. Two-year scholarships are awarded to outstanding members of the Xavier University sophomore ROTC class and number three or four per year. Both types of scholarships cover the costs of books, tuition, and fees, and carry a $50.00 monetary allowance. See the Military Science section of this Catalog for additional information.

Members of the advanced course receive an allowance of $40.00 per month.

Competitive Scholarships for Greater Cincinnati

A minimum of twelve scholarships, which may amount to half-tuition, are awarded to graduates of high schools in the Greater Cincinnati area. 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. These scholarships are awarded at the discretion of the Committee on Scholarships at Xavier University on the basis of scholastic excellence and financial need.

Competitive Scholarships Outside Greater Cincinnati

A minimum of twelve scholarships, which may amount to half-tuition, are awarded to graduates of high schools outside the Greater Cincinnati area. The scholarships are awarded at the discretion of the Committee on Scholarships at Xavier University on the basis of scholastic excellence and financial need.

Instructions for All Applicants

Applicants for scholarships shall have completed all the requirements for admission to the University before being considered for a scholarship. Moreover, they must submit a Parents’ Confidential Statement. This should be done by March 1.

Letters concerning scholarships should be directed to:

The Secretary
The Committee on Scholarships
Xavier University
Cincinnati, Ohio 45207

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 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.

Source of Scholarship Funds

The permanent scholarships that have been generously given to Xavier University in the past are listed below. 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
Mrs. F. W. Hinkle Memorial Scholarship, 1940, $5,000
The Ryan Sisters Memorial Scholarship, 1940, $5,000
Saint Xavier Church Memorial Scholarship, 1940, $5,000

The four preceding scholarships were 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. Clangens 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.

Res. 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 A. and George McDonald Fund
This fund, established in 1960 to honor Mr. and Mrs. Andrew J. McDonald, provides income for a graduate assistant in the Department of Chemistry.

Walter A. 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 Richard A. Jones Journalism Scholarship, 1960, $19,161.83
A bequest from the estate of Mrs. Alma J. Snodgrass to the Evening College in memory of her father, Cincinnati newspaperman.

The Jesse K. Dunn Memorial Scholarship Fund, 1959, $7,000
The Frederick A. Hauck Physics Research Scholarship, 1962, $1,500 annually
This is an award to a student (or students) selected by the Department of Physics to pursue, on the undergraduate level, research projects commensurate with his (or their) intellectual promise.

The Matthew Ryan Family Scholarship, 1964, $10,000
Given at the request of the late Miss Margaret Ryan.

The Fredin Memorial Scholarships, 1964.
These are annual awards for one or more students to pursue their studies in French in France. Established from the bequest of Mlle. Aline Fredin in memory of her parents.

The Mr. and Mrs. Theodore H. Oppenheim Scholarship Fund, 1966.
A scholarship to be awarded at the discretion of the Scholarship Committee.

The Chaswil Foundation Student Loan Fund
The Chaswil Foundation Student Loan Fund has been established by the late Sir Charles F. Williams to assist students in the
undergraduate division. Students enrolled in the undergraduate day division of Xavier University are eligible to apply for loans after the completion of their first semester. In any one calendar year, a student can borrow up to one-half of his tuition and fees, or $200.00, whichever is less. The loan is interest free. The recipient will be required to pay back a minimum of $200.00 of the total amount borrowed, during each calendar year after he leaves Xavier University, whether by graduation or for any other reason.

The Lichter Foundation Loan Fund

The Lichter Foundation Loan Fund was established in 1955 through the generosity of Mr. Jacob Lichter of Cincinnati. Students enrolled in any division of Xavier University are eligible to apply for a loan after the completion of their first semester. The maximum to be borrowed in a particular case will be determined by the Committee on Scholarships. The recipient of a loan will be expected to pay back the money at his earliest convenience. The notes will begin to bear interest at the rate of 3% per annum, payable semiannually, one year after the recipient leaves Xavier University whether by graduation or for any other reason.

Government Loan Fund

The National Defense Education Act of 1958 provides for the creation, at American colleges and universities, of loan funds from which needy undergraduate and graduate students may borrow for the completion of their higher education. Recipients are selected by the school itself.

The borrower must be a full-time or half-time student, in need of financial aid for his education, and capable of maintaining good academic standing. An undergraduate may borrow up to $1,000.00 in one year but not over $5,000.00 in his entire course of higher education. A graduate student may borrow, on the same basis and on the same repayment plans as the undergraduate, up to $2,500.00 per year but not to exceed a total of $10,000.00, including any undergraduate loans he may have incurred.

Repayments begin on a monthly or quarterly basis as determined by the University within nine months after the borrower ceases to be a full-time or half-time student. These loans carry a 3 percent interest on the unpaid balance during the repayment period. The loan must be repaid in accord with the terms specified in the promissory note. Under no conditions may the repayment period exceed ten years. The Act as amended requires that special consideration be given to superior students. For further details, communicate with the Director of Placement and Student Aid, Xavier University.

The Tuition Plan

The Tuition Plan is a convenient way to meet tuition and fees through monthly payments. Under this system, payments are spread out over eight monthly installments if the contract is for one academic year's expenses, or over the entire year if the contract is for two, three, or four years' schooling. Any qualified parent under 60 years of age who uses the two, three, or four year plan is covered automatically by Parent Life Insurance, at no additional expense. The insurance provides for the payment of the remaining costs covered by the contract, upon the death of the parent who signed the contract.

Cost:

One year plan — 4% more than the cash price of tuition and fees for one year.
Two year plan — 5% more than the cash price of tuition and fees for two years.
Three year plan — 6% more than the cash price of tuition and fees for three years.
Four year plan — 6% more than the cash price of tuition and fees for four years.

For details on the Tuition Plan write: Treasurer's Office, Xavier University, Cincinnati, Ohio 45207.

Education Funds Incorporated

Education Funds Incorporated offers a convenient way to meet the cost of tuition and fees through monthly payments. Both parent and student are covered automatically by life insurance, which provides for the payment of the remaining cost covered by the contract in the event of the death or permanent disability of the parent, or repayment of the contract in the event of the death of the student. Interest rates are reasonable.

Payment plans:

One year plan covers tuition and fees for one year, payable in eight or twelve monthly installments.
Two year plan covers two years' expenses — 24 monthly payments.
Three year plan covers three years' expenses — 36 monthly payments.
Four year plan covers four years' expenses — 40 or 48 monthly payments.

For details, communicate with the Treasurer's Office, Xavier University.
The College Work-Study Program

In the Economic Opportunity Act of 1964, Government funds are made available to colleges and universities for part-time work, usually on campus. Applicants should be nationals (citizens) in need of the earnings to meet their college expenses, should have good academic standing, and should carry a normal (full-time) number of academic course hours. Under this program students may work up to 15 hours per week when their classes are in session and not more than 40 hours per week in vacation periods or during the summer when not enrolled in classes. Whenever possible, Work-Study jobs will be co-aligned with the student’s course of studies to give the most valuable educational experience.

Xavier University participates in this program. For details communicate with the Director of Placement and Student Aid, Xavier University.

Educational Opportunity Grants

The Higher Education Act of 1965 provides funds through the United States Office of Education to Xavier University for making grants of from $200 to $800 a year to worthy undergraduate students in exceptional financial need. Grants are renewable for four years. The amount awarded to a student must be matched by some other type of financial aid provided either by the University, an outside scholarship, or other source.

After the first year an additional $200 a year may be granted students who are in the upper half of their class.

Further information may be obtained from the Director of Placement and Student Aid, Xavier University.

Awards

The Benjamin Bernstein Award. This award of $100, offered by Mr. Benjamin Bernstein, partner of Touche, Ross, Bally, and Smart, is given to a student majoring in accounting who indicates aptitude in public accounting and whose scholarship in accounting and in over-all average is highest at the completion of his junior year.

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.

Financial Executives Institute, Cincinnati Chapter, Award. The sum of $50 is given to the senior majoring in accounting whose scholastic standing, leadership, and participation in co-curricular activities are exceptional.

The Cincinnati Controllers Institute of America, Inc. Award. A plaque is awarded at the annual educational meeting to a senior majoring in accounting. The student is selected on scholastic standing, leadership, and participation in co-curricular activities.

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.

Craig Menderson Memorial Economics Award. This award of a gold key and $50 was established in 1966 in memory of fifteen-year old Craig W. Menderson. It is given to the senior in economics who best demonstrates intellect, maturity, integrity, spirituality, and personality.

The Intercollegiate English Prize. A prize of $100 is offered yearly by Mr. David F. Bremmer of Chicago for excellence in English essay writing. The competition includes the Jesuit colleges and universities of the Chicago, Missouri, Detroit, and Wisconsin Provinces.

The Alumnae English Prize. This prize is given by the Xavier University Alumnae Association to the student winning the highest place in the Intercollegiate English Contest.

The Sweeney English Award. A cash prize of $25.00 is given in memory of Thomas and Anthony Sweeney to the student completing his major in English with the highest distinction.

The Mermaid Tavern Prize Key. A gold key is offered by Mr. Anthony C. Elsaesser, '12, to the Tavern member meritng highest distinction in literary composition and criticism.
The Catholic Poetry Society of America Award. This award is given for an original poem judged superior by the Department of English.

Athenaeum Prize Keys. Two gold keys are given to authors of the best contributions by undergraduate students to the *Athenaeum* literary magazine as judged by members of the Department of English.

Xavier Fourragere. This military decoration is presented to ROTC students as an honor for military attainment.

The American Marketing Association Award, Cincinnati Chapter. An award of memberships and subscriptions valued at $25.00 is made to the senior who has been outstanding in the study of marketing.

NFBA Foundation, Inc. Scholarship. The National Food Brokers Association annual award of $400 is given to a junior or senior majoring in marketing. It is presented to a student interested in making a career in the food industry.

The Kramer-Miller Mathematics Award. An award of $50 is made to the senior majoring in mathematics who has distinguished himself in his studies and has shown the greatest progress in mathematics.

The Mathematics Department—Pi Mu Epsilon Award. An award of $20 presented by the Mathematics Department and the Ohio Theta Chapter of Pi Mu Epsilon, national honorary mathematics fraternity, to the student in mathematics exhibiting excellence in problem competition sponsored by the Department.

The Military Order of World Wars Medal. The Cincinnati Chapter of The Military Order of World Wars presents a gold medal and a $200 scholarship to the outstanding ROTC 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 ROTC. 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 Disabled American Veterans' National Headquarters Award.

The Hamilton County Chapter of Catholic War Veterans' Award.

The Combined Councils, Knights of Columbus Award.

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

The Association of the United States Army Medal.

The ROTC Bandsmen Award.

The American Legion, Fourth District Award.

The American Legion, Fourth District Award.

The American Legion, Fourth District Award.

The American Legion, Fourth District Award.
in 1964 an annual award of a Greek Lexicon to the student who
excel in Greek in the judgment of the Department of Classics.

The Joseph B. Verkamp Medal. A gold medal is established by
Mr. Joseph B. Verkamp, '77, for award to the member of the Poland
Philosophian Society who has delivered the best speech in the annual
public debate of the society.

The Tau Kappa Alpha—National Honorary Society Speech
Fraternity Keys. The Delta Sigma Tau Kappa Alpha Keys are
awarded to students selected as members of the National Honorary
Fraternity for their excellence in debate.

The Robert G. McGrath History Medal. This award is made to
the student judged by the Department of History to excel in the
study of history.

The Gasiorowicz Political Science Medal. This medal is awarded
to the junior who has made the greatest progress in and contribution
to the field of political science.

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 cate­
chetical 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.

Evening College Awards

The Evening College Honor Award (First Prize $50.00) is awarded
to the freshman or sophomore student who attains the highest
scholastic average in a degree or certificate program.

The Evening College Honor Award (Second Prize $25.00) is
awarded to the freshman or sophomore student who attains the
second highest scholastic average in a degree or certificate program.

The J. D. Cloud Accounting Award. This prize of $100.00 is
awarded to the student of the Evening College in the senior accounting
class attaining the highest average for his third and fourth years’ work.

The Xavier University Alumnae Association Scholarship Award.
This award of $50.00 applicable toward tuition, is presented to the
alumnae member in good standing enrolled in a certificate or degree
program whose average for the year is highest.

The Accounting Award of the Cincinnati Chapter, American
Society of Women Accountants. This award of $25.00 is granted to a
woman student in the Evening College for excellence in the study of
accounting.

The Cincinnati Industrial Advertisers Award. A $50.00 savings
bond will be awarded to the student conceiving and designing the
best advertising campaign at the Evening College.

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.

Student Government

The purpose of student government at Xavier University is
educational. Its goal is twofold: first, to develop a sense of individual
and group responsibility for common ideals, and, secondly, to demon­
strate through actual living experience the techniques of attaining
those goals through group self-organization and self-government.

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 Activity

Sodality of the Immaculate Conception. The sodality was estab­
lished and affiliated to the First Sodality in Rome on December 8, 1814.
Its purpose is to promote a special and filial devotion to the Immacu­
late 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. A residence for sodalists is maintained
at 776 North Crescent Avenue.
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 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.

Economics Club. Undergraduates interested in economics have banded together for further discussion of this subject.

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

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

The Investment Club has limited membership and is designed to promote an understanding of security selection and investment management. Members regularly commit monthly dues to the purchase of securities.

The Jazz Club presents jazz programs on campus and on the University and other radio stations.

The Xavier University Marketing Club. This organization, founded in 1963, supplements the students' classroom activity by inviting outside speakers and by orienting the members toward opportunities in the field.

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 Taernicular, a privately circulated magazine, is issued quarterly.

Pershing Rifles: Company G-1, a member of The National Society of Pershing Rifles, is a voluntary 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. Company G-1 competes against drill teams from other universities at drill meets held at various locations in this part of the country. The company drills intensively and has developed a noteworthy esprit de corps. Elected Pershing Rifles members of the Advanced Course command the unit and administer its affairs. Any Basic Course student capable of passing certain tests is eligible for membership in the Pershing Rifles. Members wear the blue and white fourragere on the left shoulder of their R.O.T.C. uniforms.

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 Polish 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. Members participate as Young Democrats and Young Republicans, and invite governmental figures to discuss theoretical and practical politics.

The Psychology Club provides opportunity for students to increase their knowledge of psychology and to participate in extracurricular 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 St. Thomas More Pre-Law Society was founded in 1963 by the Xavier University Pre-Legal Committee for students interested in a career in the legal profession. Its program affords its members, in addition to the guidance of the Pre-Legal Committee, the counsel
also of law school deans, professors, and students, of members of the local judiciary and bar, and especially of members of the Natural Law Society.

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.

The Student Tutoring Society aids undergraduates who encounter difficulties in meeting scholastic standards.

Student Volunteer Services, organized in 1963, involve students in volunteer projects at the local level and in such organizations as the Peace Corps, the Papal Volunteers, Extension, and VISTA. The organization works closely with Chabanel House. Projects include tutoring, direction of recreation, trips to Appalachia, and other activities of social and civic significance.

WCXU, the Xavier radio station, presents music, news, and sports sixty hours a week from its studio in the Alter Building. The Student Council owns the station, and students in Communication Arts staff it. It operates on 660 k.c.

Social and Service Clubs

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

The Xavier University Bridge Club was organized in 1959 under a franchise from The American Contract Bridge League. Its activities include monthly duplicate tournaments, invitational tournaments with other schools, and the sponsorship of bridge classes.

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 ROTC 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 ROTC Rifle and Pistol Club practices marksmanship under the direction of a member of the Department of Military Science. The teams participate in intercollegiate competition, varsity and ROTC competition as members of the Ohio-Kentucky Rifle League, The Ohio ROTC Rifle League, and The Midwest Pistol League.

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

The Student Directory is compiled annually by undergraduates working under the direction of the Dean of Men.

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.

Regional Clubs

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

The Chicago Club
The Hamilton Club
The Cleveland Club
The Indianapolis Club
The Detroit Club
The Kentucky Club
The Fort Wayne Club
The Toledo 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, tennis, and occasional sports. These activities are administered by the Athletic Director, who is advised by the Athletic Board and who is responsible to the Vice-President, Student Affairs.

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 yearbook of the University, is a student edited 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 Alumnus combines campus news with reports about Xavier men and women everywhere. It is published by the Department of Public Relations.

The Xavier University News. Xavier University is the publisher of The Xavier University News. As publisher the University operates through a faculty adviser who is ultimately responsible to the President and who seeks to achieve the purposes of the publication through a program of pre-publication leadership and guidance as well as post-publication review and critique. The judgment of the adviser on the acceptability of material for publication is final.

Honor Societies

Alpha Sigma Nu. A chapter of this national honor fraternity for students of Jesuit colleges and universities was established at Xavier in 1899. Candidates for membership, chosen during their junior or senior year or from the Graduate School, must be outstanding in scholarship, in loyalty, and in service to the University.

Pi Mu Epsilon. The Ohio Theta Chapter of Pi Mu Epsilon, the national honorary mathematics fraternity, was established at Xavier University in 1962. The purpose of this organization is the promotion of scholarly activity in mathematics among students in academic institutions. Membership is limited to students, both graduate and undergraduate, majoring in mathematics or related subjects who have achieved distinction in scholarship and have done outstanding work in mathematics.

Psi Chi. Honorary psychology fraternity.

Sigma Pi Sigma. There is a chapter of Sigma Pi Sigma, national physics honor society, at Xavier University. Its purposes are to serve as a means of awarding distinction to students having high scholarship and promise of achievement in physics; to promote their interest in research; to encourage professional spirit and friendship among physics students; and to popularize interest in physics.

Tau Kappa Alpha. Honorary forensic fraternity.

The Xavier Order of Military Merit. XOMM is an honorary organization of Advanced Course students selected annually by a board consisting of elected representatives from the existing membership of XOMM and a member of the military faculty. The selection of new members is subject to approval by the PMS. Some of the criteria for selection to membership are leadership qualities, military and academic grades, and relative standing in the Cadet Regiment. Members of the order are awarded a red fourragere to be worn as part of the uniform.

Phi Alpha Theta. Kappa Nu Chapter, activated in 1965 at Xavier, is open to history students with a 3.25 or better over-all average.

Non-Student University Groups

The Booklovers Association, 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) cooperation with the administrative body of Xavier University in maintaining high standards of education; (2) the support of extracurricular 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.
The Xavier University Alumnae Association. Any woman student who has acquired thirty or more credits in residence is eligible for membership. The group was founded in 1926 and is affiliated with the International Federation of Catholic Alumnae.

The Honors Course Committee. The women 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 Xavier Marian Society. This is an organization of men and women desiring to live and serve in accord with the spirit of Vatican II.

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

The Natural Law Society. Sponsored by Xavier University, this Society was founded in 1955 for members of the legal profession. Its purpose is to assist legislators, judges, and attorneys in the application of the natural law to the enactment, interpretation, and practice of law. Membership is informal and open to the entire legal profession. The Society has a Governing Board composed of Greater Cincinnati lawyers. It sponsors speakers, panel discussions, and study seminars.
The College of Arts and Sciences
The College of Business Administration

Application for Admission and Admission Requirements

Admission policies apply in general to all undergraduates. Those planning to enter the Evening College, however, should apply directly to the Dean of that college. No deposit is required of Evening College applicants.

Application for Admission

Application for admission to the College of Arts and Sciences or the College of Business Administration is made on a special form which will be supplied upon request made to: Director of Admissions, Xavier University, Victory Parkway, Cincinnati, Ohio 45207. The applicant must fill out the form and send it to the Director of Admissions. He must also request his high school (and any colleges he may have attended) to forward directly to the Director of Admissions a transcript of his academic record.

A deposit of $25.00 must accompany the Application for Admission. This deposit is applicable to the student's regular account at registration and is refundable only if he is refused admission to the University. Applicants are urged to submit their application forms with the deposit as early as possible. Upon receipt of an application from a student requiring housing accommodations, the Director of Housing will communicate with the applicant concerning a campus residence hall reservation.

Requirements for Admission

To be eligible to apply a student must be the graduate of an accredited high school with a minimum average of C (80%) and have a recommendation from his high school principal. A minimum
Admission to Probation

Applicants who do not meet the qualifications for admission may, under special circumstances, be admitted on probation at the discretion of the Committee on Admissions. They must pass whatever examinations the Committee on Admissions shall deem necessary.

Subjects Required for Admission

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.

The following units are required of all applicants for admission:

- English .......... 3
- Mathematics ........ 1
- Foreign Language .......... 2
- Natural Science .......... 1
- History ............ 1
- Other subjects ........ 7

Of the seven non-specified units, three must be in college-preparatory subjects. Not more than four will be accepted in vocational subjects. The seven units must be offered from courses approved by the applicant’s high school, for which credit has been granted. Single half units are acceptable only in those courses considered half-year subjects. Less than one full unit is unacceptable in subjects which ordinarily cover a full year’s work and for which a full unit is usually granted. Applicants offering a classical or modern language must present a minimum of two units. An applicant who does not present two units of credit in a language (modern or classical) may offer as a substitute two units of either history and/or natural science. More than four units in any specific subject is not acceptable.

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.

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.
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 United States Code, Title 38, Chapter 31 (Disabled Veterans), Chapter 34 ("New" GI Bill), and Chapter 35 (War Orphans).

All requests for information should be addressed to The Director, Veterans' Educational Benefits, Xavier University, Victory Parkway, Cincinnati, Ohio 45207

Admission to Evening College

Those seeking admission to the undergraduate Evening College, whether in Arts and Sciences or in Business Administration, should apply to: The Dean, Evening College, Xavier University, Cincinnati, Ohio 45207.

Most of the regulations under "Application for Admission and Admission Requirements" apply also to the Evening College. But certain differences must necessarily exist between admission to a full-time and a part-time program; hence, those seeking admission to the Evening College would be well advised to write or telephone that office.

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 $5.00 and $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 $3.00 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.

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.
Fees

Communications concerning costs for the Evening College should be addressed to the Dean of the Evening College, Xavier University, Cincinnati, Ohio 45207. Certain charges, such as the deposit with the application, are not required by the Evening College.

The following rates are effective in the regular academic year and in the summer sessions. All communications concerning expenses for the College of Arts and Sciences or the College of Business Administration should be addressed to the Director of Admissions, Xavier University, Victory Parkway, Cincinnati, Ohio 45207.

A deposit of $25.00 must accompany the Application for Admission. For those requesting housing accommodations, an additional $100.00 is required. These deposits will be applied to the student's regular account. They will not be refunded if the applicant, having been accepted, cancels his application or fails to enter the University.

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour, undergraduate colleges</td>
<td>$33.00</td>
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<td>N.B.—Auditors pay same rate as above.</td>
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<td>Matriculation fee (payable once)</td>
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<td>R.O.T.C. fee (per semester)</td>
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<td>Deposit (partially refundable)</td>
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<td>Laboratory science fee (per course per semester)</td>
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<td>Laboratory materials deposit (per course per semester — partially refundable)</td>
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</tr>
<tr>
<td>Laboratory materials deposit for science thesis (partially refundable)</td>
<td>25.00</td>
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</table>

Honors Course

A flat rate of $525.00 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fee for change in registration</td>
<td>$3.00</td>
</tr>
<tr>
<td>Late registration</td>
<td>5.00</td>
</tr>
<tr>
<td>Additional per day</td>
<td>1.00</td>
</tr>
<tr>
<td>Maximum</td>
<td>10.00</td>
</tr>
<tr>
<td>Special examinations (each)</td>
<td>2.00</td>
</tr>
<tr>
<td>Duplicate transcript</td>
<td>1.00</td>
</tr>
<tr>
<td>Graduate Record Examination</td>
<td>3.00</td>
</tr>
<tr>
<td>Graduation fee</td>
<td>25.00</td>
</tr>
<tr>
<td>Service charge (deducted if bill is paid in full within thirty days after the opening date of the semester)</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Room

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room, per semester</td>
<td>$155.00-$185.00</td>
</tr>
<tr>
<td>Room damage deposit (refundable when student no longer lives on campus)</td>
<td>25.00</td>
</tr>
</tbody>
</table>

Room Equipment

All rooms are equipped with a bed, desk, chair, bed linen, and desk lamp. Students are expected to bring blankets, towels, and soap.

Board

Meals are served in the University Center. Students who live on campus are required to take their meals in the University Dining
Room from Monday through Friday. During the academic year rates for three meals a day, five days a week, will be between $240.00 and $260.00 per semester, depending on food, labor, and maintenance costs. Meals are taken on a pay-as-you-go basis on Saturdays and Sundays.

Refunds (Undergraduate)

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 or fraction thereof. No refund will be made after classes have been in session for more than eight weeks. The amount of the refund will be calculated from the date of formal notification of withdrawal. Cf. page 75.

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 or fraction thereof. No refund will be made after classes have been in session for more than sixteen class days.

Fees are not refunded in regular or summer sessions.

A refund of board expenses may be claimed by one separating from the University. The amount of refund will be proportioned to the date at which the student gives formal notice of separating from the University.

Students drafted or called to service as reservists will receive a 100% refund of tuition and a partial refund for the unused portion of their General Fee. At the time of application for this refund, the student’s ID card must be returned to the Treasurer’s office.

Academic Regulations

Classification of Students

Lower Division Groups:
1. Freshmen — students having less than 30 credit hours and 60 quality points.
2. Sophomores — students having from 30 credit hours and 60 quality points to 62 credit hours and 125 quality points.

Upper Division Groups:
1. Juniors — students having from 63 credit hours and 126 quality points to 93 credit hours and 187 quality points inclusive of all lower division requirements.
2. Seniors — students having a minimum of 94 credit hours and 188 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 not taking courses 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. 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.

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
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 assign­
ment.
W — Withdrawal (approved).
WP — Withdrew passing.
WF — Withdrew failing.
X — Absent from examination.

N.B.—No student may withdraw from a class within the last 
two weeks of the semester. At this time he must either take the 
examination or receive a failure.

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 
attributed 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

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. An Evening College 
session or semester consists of twelve consecutive semester hours.

Probation
Freshmen admitted to the University on probation must earn a 
quality point average of 1.75 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 1.75 in either semester.
Sophomores, 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. Probation which begins or ends at midyear shall 
begin or end with the first day of class in the second semester.

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 consecu­
tive 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. The above should be interpreted 
in the light of the fact that an average of 2.00 is a minimum require­
ment for graduation.

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 participa­
tion in co-curricular activities may be limited at the discretion of the 
dean or the student's advisor.

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 facts of disciplinary censure to the admissions officer of any educational institution to which the student may subsequently apply.

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 may incur the penalty of a failure in that particular test.

Transfer within the University

A student who wishes to transfer from one college of the University to another must make application to the Dean or the Assistant Dean of the College to which he desires to transfer. If the application is approved, arrangements for the transfer will be made.

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 or from the corresponding portion of a summer session.

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. No student may withdraw from a class during the last two weeks of the semester.

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.

Xavier University reserves the right to require a student to withdraw if, in the judgment of University officials, such action would be beneficial to the physical, mental, emotional, or moral best interests of the student, or is considered necessary for the welfare of the University.

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.

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 $1.00 is charged for each additional transcript.

Since the Registrar's Office does not maintain Graduate School or Evening College records, students who have been registered in one of the undergraduate day colleges and later in the Graduate School or Evening College must apply to both the Registrar's Office and the Graduate School or Evening College when requesting transcripts.
Auditor

A student may audit a course if he has the written permission of the Dean. No one may change from the status of auditor to that of credit student. No one may change from credit student to auditor after the date for assigning the grade of W passes.

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 advisors 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 these departments: Biology, Chemistry, Communication Arts, Economics (A.B. or B.S.), Education, English, History and Political Science, Classical Languages, Modern Languages, Mathematics, Military Science, Philosophy, Physics, Psychology, Sociology, and Theology. The College of Business Administration has Departments of Accounting, Economics (B.S.B.A.), Finance, Management and Industrial Relations, and Marketing. The Evening College offers courses in most departments.

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. Generally, a reading knowledge of at least one foreign language
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. See General Requirements for All Degrees, No. 3.

The College of Business Administration requires a curricular diversification as follows: thirty-six hours of core courses and twenty-four hours in the student's area of specialization, without defining a major or, especially, a minor.

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

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, and Bachelor of Literature. Graduates of the College of Business Administration receive the Bachelor of Science in Business Administration.

General Curricular Requirements

The following requirements apply to all curricula:

1. Candidates for degrees on the Evanston campus, whether in arts, in science, or in business administration, must complete the following requirements as the core of their liberal education.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christian Culture</td>
<td>8</td>
</tr>
<tr>
<td>English (composition and literature)</td>
<td>12</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (except physical education, and A.B. option)</td>
<td>6</td>
</tr>
<tr>
<td>Military Science* (unless exempted)</td>
<td>6</td>
</tr>
<tr>
<td>Modern Language† (depending on high school units)</td>
<td>6/12</td>
</tr>
<tr>
<td>Philosophy</td>
<td>18</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Science (A.B. option)</td>
<td>8</td>
</tr>
<tr>
<td>Speech</td>
<td>2</td>
</tr>
<tr>
<td>Theology†</td>
<td>8</td>
</tr>
</tbody>
</table>

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 a 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 specialization of their choice. They must also have no fewer than eighteen hours of upper division work preparatory to the specialization of their choice.

*Not required of Evening College students.
†Not required in business administration.
‡Non-Catholic students should confer No. 4 in the General Requirements for Graduation.
work in the major, in all of which they must attain an average of C. Twelve hours of upper division work and at least six hours of lower division work are required for the minor.

General Requirements for Graduation

In addition to being a classified student at Xavier University and meeting the requirements of his program for the bachelor's degree, a candidate must have—

1. At least 128 hours with an overall average of C.
2. An average of C in his upper division courses.
3. Eighteen hours of prescribed philosophy courses.
4. Eight hours of Theology if he is a Catholic. (Non-Catholics complete Th 3 and 5. Those in Evening College may substitute by arrangement with their dean.)
5. Eight hours of Christian Culture courses including Pl 132 and So 125.
6. The last 32 hours in residence and with an average of C.
7. Filed formal application for his degree in the proper college office.
8. Taken the Graduate Record Examination (Advanced Test) in his major field if it is a departmental requirement.
9. Passed his comprehensive examination if he is in the College of Arts and Sciences—unless his department has a substitute requirement. (When a thesis is required, the original and one copy must be deposited in the registrar's office on or before the date designated in the University Calendar in the Catalogue.)
10. Discharged all financial obligations to the University.
11. Agreed to be present at the Commencement.

Graduation Honors

Honors are awarded on the basis of outstanding attainment. A student who has earned a quality-point average of 3.75 in his 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 meritng 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 the last 64 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.

Reservation of Rights

The University reserves the right to modify its graduation and other 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.

Students who interrupt their attendance and who later return must meet the curricular requirements in force at the time of their return.

Registration Procedures

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.
Degree Programs—
The College of Arts and Sciences

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.

It will be noted that the thirty-five or thirty-eight elective hours in the H.A.B. course enable the superior student, in addition to completing an intensive course in the liberal arts, to cover the premedical requirements or to do concentrated work in a major field such as classics, economics, English, history, the modern languages, philosophy, or psychology.

The minimum requirements:

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Biology*</td>
<td>8</td>
<td>Military Science</td>
</tr>
<tr>
<td>Chemistry†</td>
<td>9</td>
<td>Modern Language</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Greek</td>
<td>6–12</td>
<td>History</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>Lit.</td>
</tr>
<tr>
<td>Latin</td>
<td>6</td>
<td>Theology</td>
</tr>
<tr>
<td>Mathematics‡</td>
<td>6</td>
<td>Electives</td>
</tr>
</tbody>
</table>

*With approval of the Director of the H.A.B. program, students majoring in mathematics may substitute two years of physics for chemistry and biology.
†In place of chemistry, psychology majors take biology.
‡The six hours of mathematics must include calculus.

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Honors Bachelor of Arts

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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>En 3</td>
<td>English Comp.</td>
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<td>English Comp.</td>
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<tr>
<td>Fr 1, Gk 17, El. Fr., Lysias</td>
<td>6</td>
<td>Fr 2, Gk 21 El. Fr., Plato†</td>
<td>6</td>
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<td>or Gk 1, 2 Elem. Greek</td>
<td>6</td>
<td>Gk 17, Gk 21, Lysias, Plato.</td>
<td>6</td>
</tr>
<tr>
<td>Hs 4</td>
<td>Europe to 1500</td>
<td>3</td>
<td>Hs 8</td>
</tr>
<tr>
<td>Lt 28</td>
<td>Cicero.</td>
<td>3</td>
<td>Lt 51</td>
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<tr>
<td>Mt 50</td>
<td>Calculus, Geometry I.</td>
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<td>Mt 51</td>
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<tr>
<td>Ms 4</td>
<td>First Year Basic.</td>
<td>2</td>
<td>Ms 2</td>
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<tr>
<td>Th 40</td>
<td>Christ in Gospel.</td>
<td>2</td>
<td>Th 41</td>
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<tr>
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<td>21</td>
<td>Total 21</td>
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<tr>
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<tbody>
<tr>
<td>Bl 3</td>
<td>Zoology</td>
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<td>Zoology</td>
</tr>
<tr>
<td>Ch 3*</td>
<td>General Inorganic</td>
<td>4</td>
<td>Ch 4*</td>
</tr>
<tr>
<td>En 31</td>
<td>Studies in Poetry§</td>
<td>3</td>
<td>En 32</td>
</tr>
<tr>
<td>Gk 160</td>
<td>Sophocles</td>
<td>3</td>
<td>Gk 141</td>
</tr>
<tr>
<td>Lt 119</td>
<td>Adv. Latin Comp.</td>
<td>3</td>
<td>Lt 121</td>
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<tr>
<td>Ms 81</td>
<td>Second Year Basic.</td>
<td>2</td>
<td>Ms 32</td>
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<td>Th 42</td>
<td>Christ in His Church.</td>
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<td>Elective, Directed **</td>
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<tr>
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<td>20–23</td>
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<th></th>
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<tbody>
<tr>
<td>Ch 3**</td>
<td>General Inorganic</td>
<td>4</td>
<td>Ch 4**</td>
</tr>
<tr>
<td>Gk 171</td>
<td>Plato.</td>
<td>3</td>
<td>Gk 151</td>
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<tr>
<td>Hs 141</td>
<td>U. S. to 1865</td>
<td>3</td>
<td>Hs 142</td>
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<tr>
<td>Lt 192</td>
<td>Lucretius</td>
<td>3</td>
<td>Lt 121</td>
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<td>PI 105</td>
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<td>12 + Sciences</td>
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<td>3</td>
<td>Lt 188 Hist. of Classical Lit.</td>
<td>3</td>
</tr>
<tr>
<td>Lt 161</td>
<td>Roman Comedy</td>
<td>3</td>
<td>Lt 149</td>
</tr>
<tr>
<td>Gk 188</td>
<td>Hist. of Classical Lit.</td>
<td>3</td>
<td>Pl 132</td>
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<tr>
<td>Pl 131</td>
<td>Priv. of Ethics</td>
<td>3</td>
<td>PI 198b</td>
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<td>Pl 198a</td>
<td>Saint Thomas</td>
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</tbody>
</table>

*For pre-med.
**For non pre-med.
§Students (except those who have completed En 14) may substitute En 24: Studies in the Novel for either En 31 or 32.
†Students having two units of high school Greek will register for Fr 1 and Gk 17.
‡Students who have completed Fr 1 and Gk 17 will register for Fr 2 and Gk 21. Those who have completed Gk 1, 2, will register for Gk 17 and 21.
THE BACHELOR OF ARTS

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.

A major or minor in Classics, combining Latin and Greek, may also be arranged with the approval of the Chairman of the Department.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
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<tbody>
<tr>
<td>Latin</td>
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<tr>
<td>Math. or Science</td>
<td>6-8</td>
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<td>Military Science</td>
<td>6</td>
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<td>6</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>or Greek</td>
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<td>Philosophy</td>
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*Departmental requirements for major and minor must be fulfilled.

A.B.

Freshman Year

First Semester

<table>
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<tr>
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<th>U.D.</th>
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<tbody>
<tr>
<td>En 3 English Comp.</td>
<td>3</td>
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<tr>
<td>Hs 7 European to 1500</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Lr 1 or Lt 1</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ML 1 or Gk</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>MS 1 First Year Basic</td>
<td>1</td>
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<tr>
<td>Th 40 Christ in the Gospels</td>
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Second Semester

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<th>U.D.</th>
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<tbody>
<tr>
<td>En 4 English Comp.</td>
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<tr>
<td>Hs 8 European since 1800</td>
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<td>Lr 2 or Lt 2</td>
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<td>ML 2 or Gk</td>
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<td>MS 2 First Year Basic</td>
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<tr>
<td>Th 41 Christ, Our Redeemer</td>
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Sophomore Year

First Semester

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<tr>
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<tr>
<td>Lt 1 or Lt 2</td>
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<td>3</td>
</tr>
<tr>
<td>ML 31 or Gk</td>
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<td>MS 31 Second Year Basic</td>
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<td>2</td>
<td>2</td>
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<tr>
<td>Ps 31 Gen. Psychology</td>
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<td>Th 42 Christ in His Church</td>
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<td>2</td>
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Second Semester

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<th>U.D.</th>
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<td>En 32 Studies in Drama</td>
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<td>Lt 2 or Lt 3</td>
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<tr>
<td>ML 32 or Gk</td>
<td>3</td>
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<tr>
<td>MS 32 Second Year Basic</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<td>Ps 34 Logic</td>
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<td>3</td>
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<td>Th 43 Christ in the Soul</td>
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Junior Year

First Semester

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<th>Sem. Hrs.</th>
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<th>U.D.</th>
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<td>Major</td>
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<tr>
<td>Minor</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mt or Science</td>
<td>3-4</td>
<td>3-4</td>
<td>3-4</td>
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<td>Pl 110 Phil. Psychology</td>
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Second Semester

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<td>Major</td>
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<tr>
<td>Minor</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<td>Pl 132 Pers., Soc. Ethics</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Christian Culture</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Pl 106, 106, 107, or 108</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>6</td>
<td>6</td>
<td>6</td>
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Senior Year

<table>
<thead>
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<th>U.D.</th>
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<tr>
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<td>2</td>
<td>2</td>
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<tr>
<td>Major</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
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<td>3</td>
<td>3</td>
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<tr>
<td>Pl 131 Prin. of Ethics</td>
<td>3</td>
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<tr>
<td>Pl 106, 106, 107, or 108</td>
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<tr>
<td>Elective</td>
<td>6</td>
<td>6</td>
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<tr>
<td>Total</td>
<td>17</td>
<td>17</td>
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</tbody>
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*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
THE BACHELOR OF SCIENCE (Biology)

The Bachelor of Science is conferred on students who major in biology and who generally minor in chemistry, psychology, or other sciences. Lectures and laboratory procedures are designed to give students a knowledge of basic biological principles and a training in careful observation, controlled experimentation, and a thoughtful analysis of scientific data. The department aims, furthermore, to contribute to the liberal education and cultural background of its students. This program provides an adequate foundation for further studies in graduate schools of biology, for professional studies in medicine and dentistry, and for the teaching of biology on the high-school level.

The minimum program requirements are:

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<th>U.D.</th>
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<td>14</td>
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<td>Christian Culture</td>
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<td>English</td>
<td>12</td>
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<tr>
<td>History</td>
<td>6</td>
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<td>Mathematics</td>
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<td>Modern Language</td>
<td>6-12</td>
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<td>Philosophy</td>
<td>3</td>
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<td>Psychology</td>
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<td>Physics</td>
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<td></td>
</tr>
<tr>
<td>Speech</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>Theology</td>
<td>8</td>
<td></td>
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</table>

With the approval of the Chairman of the Department, a student majoring in biology may substitute some other courses to fulfill the requirements of a major. Students majoring in biology may use the following sciences as a minor: Ph 3, 4, Ch 3, 4, and eight hours of advanced chemistry.

---

### Freshman Year

<table>
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<tr>
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<tbody>
<tr>
<td>BI 3</td>
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<td>BI 4</td>
<td>4</td>
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<tr>
<td>Ch 3</td>
<td>4</td>
<td>Ch 4</td>
<td>5</td>
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<td>En 3</td>
<td>3</td>
<td>En 4</td>
<td>3</td>
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<tr>
<td>Mt 31 (or 11)</td>
<td>3</td>
<td>Mt 50 (or 12)</td>
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<tr>
<td>MS 1</td>
<td>1</td>
<td>MS 2</td>
<td>1</td>
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<tr>
<td>Th 40</td>
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<td>Th 41</td>
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### Sophomore Year

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<td>Hs 7</td>
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<td>Hs 8</td>
<td>3</td>
</tr>
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<td>MS 31</td>
<td>2</td>
<td>MS 32</td>
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<td>Ph 3</td>
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<td>Pl 84</td>
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<td>Ps 31</td>
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### Junior Year

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<td>Ch 101</td>
<td>4</td>
<td>CA 1</td>
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<td>En 31</td>
<td>3</td>
<td>Ch 102</td>
<td>3</td>
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<td>Mt 1</td>
<td>3</td>
<td>ML 2</td>
<td>3</td>
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<td>Pl 100</td>
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<td>Pl 105, 106, 107, or 131</td>
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<td>CC</td>
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<td>En 32 Studies in Drama*</td>
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<td>ML 31</td>
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<td>Pl 132 Pers., Social Ethics</td>
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*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
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.

Xavier University is approved by the American Chemical Society for its training in chemistry.*

Departmental requirements for a major include:
1. The completion of Ch 3 and 4 as an introduction to upper division work.
2. The completion of Ch 51, 101, 102, 106, 107, 116, 125, 126, 170, 171, and 199, or the equivalent.

Departmental requirements for a minor include:
1. The completion of Ch 3 and 4 as an introduction to upper division work.
2. The completion of Ch 51, 101, 102, and 121.

The minimum program requirements follow:

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<tr>
<td>Military Science</td>
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*Students completing the approved program of studies are graduated as "certified" chemistry majors.
†Russian may be substituted for German.

B.S. (Chemistry)

Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>Ch 3</td>
<td>General Chemistry 4</td>
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<tr>
<td>Mt 31</td>
<td>Algebra, Trig. (or Mt 50)* 3</td>
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<td>(or Mt 51) 3</td>
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<td>Europe after 1500 3</td>
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<td>Th 40</td>
<td>Christ in the Gospels 2</td>
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Sophomore Year

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<td>Calculus, Geom. II</td>
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<td>Studies in Poetry† 3</td>
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<td>University Physics I 4</td>
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Junior Year

<table>
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</tr>
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<tbody>
<tr>
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<td>Quantitative Chem. 4</td>
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<td>Ch 125</td>
<td>Physical Chemistry 3</td>
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<td>Mt 5</td>
<td>Upper Div. 3</td>
</tr>
<tr>
<td>Gr 1</td>
<td>Elementary German 3</td>
</tr>
<tr>
<td>Pt 101</td>
<td>Phil. Psychology 3</td>
</tr>
<tr>
<td>So 125</td>
<td>Marriage 2</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Total</td>
<td>18</td>
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</table>

Senior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 116</td>
<td>Chem. Measurements 4</td>
</tr>
<tr>
<td>Ch 107</td>
<td>Intern. Organic Chem. 2</td>
</tr>
<tr>
<td>Ch 171</td>
<td>Inorg. Chem. Lab. 1</td>
</tr>
<tr>
<td>Ch 199a</td>
<td>Senior Thesis 1</td>
</tr>
<tr>
<td>Gr 33</td>
<td>Scientific German 3</td>
</tr>
<tr>
<td>Pt 131</td>
<td>Prin. of Ethics 3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*If a student has advanced standing in algebra and trigonometry, he may register for Mt 50: Calculus. Otherwise the math sequence begins with Mt 31. Courses labelled Upper Division Mathematics are selected with the approval of adviser.
†Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
THE BACHELOR OF SCIENCE
(Any Major—Minor: Communication Arts)

Communication Arts (CA) develops the ability to communicate what one knows and feels. The basis for all oral communication is speech. But since all mass media are closely allied with oral communication, courses in journalism and in public relations are also included under CA.

CA may be chosen for an undergraduate minor, an Associate Degree, or an M.Ed. concentration. The student selecting CA should seek advisement from his dean or from the Chairman of the CA Department.

Requirements for the minor in CA are as follows: CA 1: Principles of Speech; CA 20: Voice and Phonetics; CA 40: Oral Interpretation; CA 100: Public Speaking; and nine hours of approved upper division CA courses.

Specific degree requirements follow:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major*</td>
<td>8</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>Communication Arts</td>
<td>6</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>Christian Culture</td>
<td>6</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Modern Language</td>
<td>6-12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Semester hours will vary according to the student's major.

B.S. (Any Major—Minor: Communication Arts)

Freshman Year

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>En 3 English Comp.</td>
<td>3</td>
<td>En 4 English Comp.</td>
<td>3</td>
</tr>
<tr>
<td>Hs 7 Europe to 1500</td>
<td>3</td>
<td>CA 1 Speech</td>
<td>2</td>
</tr>
<tr>
<td>ML 1 Elem.</td>
<td>3</td>
<td>ML 2 Elem.</td>
<td>3</td>
</tr>
<tr>
<td>MS 1 First Year Basic</td>
<td>1</td>
<td>MS 2 First Year Basic</td>
<td>1</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer</td>
<td>2</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
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Total: 16

Sophomore Year

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>En 31 Studies in Poetry*</td>
<td>3</td>
<td>En 32 Studies in Drama*</td>
<td>3</td>
</tr>
<tr>
<td>CA 20 Voice, Phonetics</td>
<td>3</td>
<td>CA 40 Oral Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>Mt 11 College Math. I</td>
<td>3</td>
<td>Mt 12 College Math. II</td>
<td>3</td>
</tr>
<tr>
<td>ML 31 Intermediate</td>
<td>3</td>
<td>ML 32 Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>MS 31 Second Year Basic</td>
<td>2</td>
<td>MS 32 Second Year Basic</td>
<td>2</td>
</tr>
<tr>
<td>Ps 31 Gen. Psychology</td>
<td>3</td>
<td>Ps 32 Logic</td>
<td>3</td>
</tr>
<tr>
<td>Th 42 Christ in His Church</td>
<td>2</td>
<td>Th 43 Christ in the Soul</td>
<td>2</td>
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</table>

Total: 19

Junior Year

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>CA 100 Public Speaking</td>
<td>3</td>
<td>CA Elective</td>
<td>3</td>
</tr>
<tr>
<td>Major*</td>
<td>3</td>
<td>Major*</td>
<td>3</td>
</tr>
<tr>
<td>PI 111 Phil. Psychology</td>
<td>3</td>
<td>PI 100 Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>So 125 Marriage</td>
<td>2</td>
<td>PI 132 Pers., Social Ethics</td>
<td>3</td>
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</tbody>
</table>

Total: 19

Senior Year

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Elective</td>
<td>3</td>
<td>CA Elective</td>
<td>3</td>
</tr>
<tr>
<td>Christian Culture</td>
<td>2</td>
<td>Major*</td>
<td>3</td>
</tr>
<tr>
<td>Major*</td>
<td>3</td>
<td>Major*</td>
<td>3</td>
</tr>
<tr>
<td>PI 131 Prin. of Ethics</td>
<td>3</td>
<td>PI 132 Pers., Social Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 9

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
†Semester hours will vary depending on major.
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:

### Course No. Subject

- Ec 33, 34 Principles of Economics
- Ec 118 Mathematics for Economists
- Ec 133 Microeconomic Analysis
- Ec 134 Macroeconomic Analysis
- Ec 139 History of Economic Thought
- Ec 145 International Economics
- Ec 150 Money and Banking
- Ec 190 Business Statistics

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>27</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Science</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
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<tr>
<td>Theology</td>
<td>8</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>6–12†</td>
</tr>
</tbody>
</table>

†Six hours of modern language suffice if student is explicitly exempted by the Department of Modern Languages from ML 1, 2.

*For candidacy in the Department, student must have completed the requirements for Mt 21 and Ec/Mt 40.

### B.S. (Economics)

#### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>En 3 English Comp.</td>
<td>En 4 English Comp.</td>
</tr>
<tr>
<td>Hs 7 Europe to 1500</td>
<td>Hs 8 Europe since 1500</td>
</tr>
<tr>
<td>Mt 21 Math. of Economics</td>
<td>Ec/Mt 40 Calculus of One</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>Variable</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
</tr>
</tbody>
</table>

| Total | 16 |

#### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 33 Prin. of Economics</td>
<td>Ec 34 Prin. of Economics</td>
</tr>
<tr>
<td>En 31 Studies in Poetry†</td>
<td>En 32 Studies in Drama†</td>
</tr>
<tr>
<td>Elective</td>
<td>ML 2</td>
</tr>
<tr>
<td>ML 1</td>
<td>Pl 34 Logic</td>
</tr>
<tr>
<td>Th 42 Christ in His Church</td>
<td>Th 43 Christ in the Soul</td>
</tr>
<tr>
<td>MS 31 Second Year Basic</td>
<td>MS 32 Second Year Basic</td>
</tr>
</tbody>
</table>

| Total | 16 |

#### Junior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 133 Micro. Economics</td>
<td>Ec 134 Macro. Economics</td>
</tr>
<tr>
<td>Ec 118 Math. for Economists</td>
<td>Ec 190 Business Statistics</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Pl 111 Phil. Psychology</td>
<td>ML 32</td>
</tr>
<tr>
<td>So 125 Marriage</td>
<td>Pl 100 Metaphysics</td>
</tr>
</tbody>
</table>

| Total | 18 |

#### Senior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 4 Prin. of Speech</td>
<td>Pl 132 Pers. and Soc. Ethics</td>
</tr>
<tr>
<td>Ec 150 Money and Banking</td>
<td>Ec 145 International Econ.</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Pl 131 Prin. of Ethics</td>
<td>Pl 105, 106, 107 or 133</td>
</tr>
<tr>
<td>CC/Ec 132 Advised</td>
<td>Elective</td>
</tr>
</tbody>
</table>

| Total | 15 |

†Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
## 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, 41, 101, 102, 103, and a two-hour elective in education. (The physical education major already includes this elective.) These courses constitute a minor in education.

2. For teaching health and physical education: Bl 9, 10, Ed 161, 162, 163, 164, 165, 166, 167, 168, 169, 171, and 172 (or 159, 160, and 173). 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 Teacher Education and Placement Office, 14 Alter Hall.

Each student must be formally accepted in writing into the teacher education program before he takes his first course in education. This acceptance is given in the Teacher Education and Placement Office, 14 Alter Hall. Prior to the semester in which he plans to do student teaching, he must receive formal acceptance from the Director of Student Teaching, 14 Alter Hall.

Students in the Physical Education program must complete the same two steps in the Physical Education Office, in the Fieldhouse.

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 Teacher Education and Placement Office 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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>6</td>
<td>30</td>
<td>U.D.</td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
<td>12</td>
<td>U.D.</td>
</tr>
<tr>
<td>Christian Culture</td>
<td>8</td>
<td>3</td>
<td>U.D.</td>
</tr>
<tr>
<td>English</td>
<td>12</td>
<td>6</td>
<td>U.D.</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>6</td>
<td>U.D.</td>
</tr>
<tr>
<td>Military Science</td>
<td>6</td>
<td>6</td>
<td>U.D.</td>
</tr>
<tr>
<td>Modern Language</td>
<td>6-12</td>
<td>30</td>
<td>U.D.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>6</td>
<td>U.D.</td>
</tr>
<tr>
<td>Philosophy</td>
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<td>15</td>
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<tr>
<td>Psychology</td>
<td>3</td>
<td>3</td>
<td>U.D.</td>
</tr>
<tr>
<td>Science (Bl 9, 10)</td>
<td>6</td>
<td>6</td>
<td>U.D.</td>
</tr>
<tr>
<td>Speech</td>
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<td></td>
<td>U.D.</td>
</tr>
<tr>
<td>Theology</td>
<td>8</td>
<td></td>
<td>U.D.</td>
</tr>
</tbody>
</table>

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

**Students (except those who have completed En 14) may substitute En 94; Studies in the Novel for either En 31 or 32.

Degree requirements give the student a choice of six hours of mathematics or six to twelve hours of modern language.

---

## B.S. (Physical Education)

### Freshman Year

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Bl 9 Human Anatomy*</td>
<td>3</td>
<td>Bl 10 Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>En 3 English Comp.</td>
<td>3</td>
<td>En 4 English Comp.</td>
<td>3</td>
</tr>
<tr>
<td>Mt 11 or 21; or MLT</td>
<td>3</td>
<td>Mt 12 or 22; or MLT</td>
<td>3</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>Total</td>
<td>16</td>
</tr>
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</table>

### Sophomore Year

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ps 31 Gen. Psychology*</td>
<td>3</td>
<td>Ps 34 Logic*</td>
<td>3</td>
</tr>
<tr>
<td>Ed 31 Prin. of Education</td>
<td>3</td>
<td>Ed 41 Ed. Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 165 Coaching: Football</td>
<td>1</td>
<td>Ed 171 Coaching: Baseball</td>
<td>1</td>
</tr>
<tr>
<td>Ed 166 Coaching: Basketball</td>
<td>1</td>
<td>Ed 172 Coaching: Track, Field</td>
<td>1</td>
</tr>
<tr>
<td>Ed 167 Health and Hygiene</td>
<td>2</td>
<td>Ed 173 Health and Hygiene</td>
<td>2</td>
</tr>
<tr>
<td>En 31 Studies in Poetry</td>
<td>3</td>
<td>En 32 Studies in Drama</td>
<td>3</td>
</tr>
<tr>
<td>Th 42 Christ in His Church</td>
<td>2</td>
<td>Th 43 Christ in the Soul</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>Total</td>
<td>17</td>
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</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ps 31 Gen. Psychology*</td>
<td>3</td>
<td>Ps 34 Logic*</td>
<td>3</td>
</tr>
<tr>
<td>Ed 101 Secondary Methods</td>
<td>2</td>
<td>Ed 102 Sec. Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>Total</td>
<td>17</td>
</tr>
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</table>

### Senior Year

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ps 31 Gen. Psychology*</td>
<td>3</td>
<td>Ps 34 Logic*</td>
<td>3</td>
</tr>
<tr>
<td>Ed 101 Secondary Methods</td>
<td>2</td>
<td>Ed 102 Sec. Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>Ed 103 Admin. of Phys. Ed.</td>
<td>3</td>
<td>Ed 104 Admin. of Phys. Ed.</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>
THE BACHELOR OF SCIENCE
(Teaching Science or Mathematics)

This degree is designed for high school teaching of science or mathematics to meet state requirements (1) for the teaching areas of chemistry and mathematics; (2) for physics and mathematics; (3) for general science and mathematics; (4) for biology and general science; and (5) for the science comprehensive teaching area with principal emphasis on physics or biology or chemistry.

Students desiring to teach, who so choose, may meet requirements for the Bachelor of Science degrees with full majors in the individual sciences or mathematics providing they include the appropriate 18 semester hours in education. Their program will ordinarily extend beyond the eight semesters required for bachelor's degrees. Students following the B.S. (Teaching Science or Mathematics) will ordinarily not have completed the major prerequisites for entrance to graduate studies in any one science or in mathematics.

### 1. For teaching chemistry and mathematics:
- Chemistry (Courses listed under 5--c below) .................. 24 hours
- Mathematics .................................................. 18
- Education ..................................................... 18
- Remainder of required courses, minimum ................... 68

Total ......................................................... 128

The eighteen hours of mathematics courses required will consist of Mt 31: Algebra and Trigonometry, 3 credit hours; Mt 50, 51, 52: Calculus and Geometry I, II, III, 9 credit hours; Mt 124: Mathematical Statistics I, 3 credit hours; and Mt 130: Theory of Numbers, 3 credit hours. If the student has already completed Mt 31, he may take another three-hour mathematics course as suggested by his adviser.

Ch 3, 4 in this program is the eight-hour freshman chemistry course.

### 2. For teaching physics and mathematics:
- Physics (Courses listed under 5--a below) ...................... 24 hours
- Mathematics .................................................. 18
- Education ..................................................... 18
- Remainder of required courses, minimum ................... 68

Total ......................................................... 128

The eighteen hours of mathematics courses required will consist of Mt 31: Algebra and Trigonometry, 3 credit hours; Mt 50, 51, 52: Calculus and Geometry I, II, III, 9 credit hours; Mt 124: Mathematical Statistics I, 3 credit hours; and Mt 130: Theory of Numbers, 3 credit hours. If the student has already completed Mt 31, he should take Mt 144: Matrices and Vector Spaces, 3 credit hours.

### 3. For teaching general science and mathematics:
- Biology (Bi 3, 4: General Zoology 4/4) ...................... 8 hours
- Chemistry (Ch 3, 4: General Chemistry 4/4) ............... 8
- Physics (Ph 3, 4: College Physics 4/4) .................. 8
- Mathematics .................................................. 18
- Education ..................................................... 18
- Remainder of required courses, minimum ................... 68

Total ......................................................... 128

The eighteen hours of mathematics courses required will consist of Mt 11, 12: College Mathematics I, II, 6 credit hours; Mt 50, 51: Calculus and Geometry I, II, 6 credit hours; and one Topics course in the senior year or after the completion of six hours of Calculus and Geometry I, II, 6 credit hours.

### 4. For teaching biology and general science:
- Biology (Courses listed under 5--b below) .................. 24 hours
- Chemistry (Ch 3, 4: General Chemistry 4/4) ............... 8
- Physics (Ph 3, 4: College Physics 4/4) .................. 8
- Mathematics (Mt 11, 12: College Mathematics I, II, 3/3) 6
- Education ..................................................... 18
- Remainder of required courses, minimum ................... 64

Total ......................................................... 128

*The six hours of mathematics will consist of Mt 31: Algebra and Trigonometry, and Mt 50: Calculus and Geometry I, or Mt 50, 51: Calculus and Geometry I, II, if the student already has Mt 31 or the equivalent when he enters the program. (Students wishing physics as their principal teaching field should also take Mt 104: Differential Equations, 3 credit hours; and Mt 106: Advanced Calculus, 3 credit hours, and the required prerequisites.)*

#### a) If the principal science is physics, the following 24-hour pattern will be followed:
- Ph 9, 10: Univ. Physics I, II ................................ 8/3 hours
- Ph 11, 12: Elec. Circuit, Electronics ......................... 4/4
- Ph 13: Upper Division Physics as determined by the Department ................................................................. 10

Total ......................................................... 24

The student will also include Ch 3, 4: General Zoology, 8 credit hours; and Ch 3, 4: General Chemistry, 8 credit hours.

#### b) If the principal teaching area is biology, the following 24-hour pattern will be followed:
- Bi 3, 4: General Zoology ...................................... 4/4 hours
- Bi 105: Botany ................................................. 4
- Bi 107: Comparative Anatomy .................................. 4
- Bi 102: Genetics .................................................. 4
- Bi 161: Hist. Physiology ........................................ 4
- Biology elective .................................................. 2

Total ......................................................... 24

The student will also include Ch 3, 4: General Chemistry, 8 credit hours; and Ph 3, 4: College Physics, 8 credit hours.

#### c) If the principal teaching area is chemistry, the following 24-hour pattern will be followed:
- Ch 3, 4: General Chemistry .................................. 4/4 hours
- Ch 101-02: Organic Chemistry .................................. 4/4
- Ch 51: Quant. Inorg. Analysis .................................. 4
- Ch 121: Elem. Physical Chemistry (No lab.) ............... 3
- Chemistry elective .................................................. 2

Total ......................................................... 24

The student will also include Bi 3, 4: General Zoology, 8 credit hours; and Ph 3, 4: College Physics, 8 credit hours.

---

**Remainder of required courses, minimum:**

- 68
THE BACHELOR OF SCIENCE (English)

The Department of English offers training in composition, in the literature of England and of America, in literary background, 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).

The following is a regulation passed by the Academic Council:

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.

Although En 3, 4: English Composition fulfills the English requirements of all students in the University in freshman year, freshmen who intend to major in English ought to enroll in En 13, 14: Rhetoric and Literature. Sophomore English majors must take En 31, 32, and they ought to register for the higher intensity sections of these courses as noted on the schedules for each semester. En 31 or its equivalent is a prerequisite for any upper division course.

At the upper division level majors must complete the Survey of English Literature to 1750, the Survey of English Literature since 1750, the Survey of American Literature, Shakespeare, and one other course in American literature. They must also include an elective course in the English, the American, or the modern novel; another in the modern drama, modern poetry, or the short story; and at least one other course: Chaucer, Milton, Seventeenth Century Literature, Eighteenth Century Literature, the Romantic Movement, Victorian Poetry, or British Prose of the Nineteenth Century. Students planning to teach high school English must include En 101: Advanced Writing. This may replace an elective course. During their junior and senior years majors must work with an assigned member of the department to prepare for the senior comprehensive examination, which is required for graduation.

Minors must take En 142, 143, 180, and one other course of their own choosing, except En 111.

A summary of the curriculum follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<tr>
<td>English</td>
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<td>Psychology</td>
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<td>Theology</td>
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<td>History</td>
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<td>Science</td>
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<td>Mathematics</td>
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<tr>
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<td>ML 1 Elem.</td>
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<td>Th 41 Christ, Our Redeemer</td>
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<td>En 31 Studies in Poetry*</td>
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<td>En 32 Studies in Drama*</td>
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<td>Mt 11 College Math. I</td>
<td>3</td>
<td>Mt 12 College Math. II</td>
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<td>M L 31 Intern.</td>
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<td>M L 32 Intern.</td>
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<td>P s 31 Gen. Psychology</td>
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<td>En 143 Survey, Eng. Lit.</td>
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<td>En 150 Shakespeare</td>
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<td>since 1750</td>
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<td>CA 1 Prin. of Speech</td>
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<td>En 180 Survey, Amer. Lit.</td>
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<tr>
<td>P l 111 Phil. Psychology</td>
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<td>P l 100 Metaphysics</td>
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<td>M i n o r</td>
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<td>En Elective</td>
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<td>P l 131 Prin. of Ethics</td>
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<td>Total</td>
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*Students planning to major in English must register for HIP Sections of En 31, 32.
THE BACHELOR OF SCIENCE (History)

The Bachelor of Science is conferred on the student who majors in History. This program requires eight semester courses beyond Hs 7 and 8, which are prerequisite to all upper division work, and includes five of necessity Hs 141 and 142, and Hs 194 which must be taken by all history majors in the first semester of their senior year.

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

A Senior Comprehensive Examination, based on assigned readings, is required.

Specific degree requirements follow:

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<thead>
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<td>Christian Culture</td>
<td>8</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>Economics*</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>English</td>
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<tr>
<td>Mathematics</td>
<td>6</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>6-12</td>
<td>-</td>
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<tr>
<td>Military Science</td>
<td>6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
<td>15</td>
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<td>Science</td>
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*Students minoring in psychology or intending to teach should substitute Ps 31 for economics.

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<tr>
<td>ML 1 Elem</td>
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<td>ML 2 Elem</td>
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</tr>
<tr>
<td>MS 1 First Year Basic</td>
<td>1</td>
<td>MS 2 First Year Basic</td>
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<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer 2</td>
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<tr>
<td>Science</td>
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B.S. (History)

Freshman Year

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<td>En 4 English Comp</td>
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<td>Hs 7 Europe to 1500</td>
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<td>MS 1 First Year Basic</td>
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<td>MS 2 First Year Basic</td>
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<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer 2</td>
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Sophomore Year

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<tr>
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<tbody>
<tr>
<td>En 31 Studies in Poetry*</td>
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<td>En 32 Studies in Drama*</td>
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<tr>
<td>Hs 141 U. S. to 1865</td>
<td>3</td>
<td>Hs 142 U. S. Since 1865</td>
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<td>Mt 11 College Math. I</td>
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<td>ML 31 Intern.</td>
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<td>MS 31 Second Year Basic</td>
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<td>MS 32 Second Year Basic</td>
<td>2</td>
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<tr>
<td>Th 42 Christ in His Church</td>
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<td>Th 43 Christ in the Soul</td>
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Junior Year

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<tbody>
<tr>
<td>So 125 Marriage</td>
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<td>Christian Culture</td>
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<td>Ec 33 Prin. of Economics</td>
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<td>Elective</td>
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<td>Hs Elective</td>
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<td>Hs Elective</td>
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<tr>
<td>Minor</td>
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<td>Minor</td>
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<tr>
<td>PI 111 Phil. Psychology</td>
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<td>PI 100 Metaphysics</td>
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Senior Year

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<tbody>
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<td>Christian Culture</td>
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<td>CA 1 Prin. of Speech</td>
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<td>Hs 194 Historical Crit.</td>
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<td>Minor</td>
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<td>PI 151 Prin. of Ethics</td>
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<td>PI 105, 106, 107, or 133</td>
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*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
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.

Sophomores wishing to major in mathematics should have a quality point average of 2.5 or better in Mt 50, 51, and 52. Any student wishing to major in mathematics should consult a member of the mathematics staff before registration.

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

The program is summarized:

<table>
<thead>
<tr>
<th>Subject</th>
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<td>27</td>
<td>Military Science</td>
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<td>Modern Language</td>
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<td>Science</td>
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<td>Philosophy</td>
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<td>Christian Culture</td>
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<td>English</td>
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<td>Theology</td>
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*The minor may be in such fields as physics, accounting, economics, or English, and must conform to the requirements of those departments.

B.S. (Mathematics)

Freshman Year

First Semester

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<td>ML 1 Elem.</td>
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<td>Ps 31 Gen. Psychology</td>
<td>3</td>
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<tr>
<td>Mt 50 (or 51)</td>
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<td>Ps 57 Europe to 1500</td>
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<td>Th 40 Christ the Gospels</td>
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Second Semester

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<td>ML 2 Elem.</td>
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Sophomore Year

First Semester

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<tr>
<td>ML 31 Interm.</td>
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<td>Mt 52 (or 51)</td>
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<td>Science</td>
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<td>Th 42 Christ in His Church</td>
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Second Semester

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<td>ML 32 Interm.</td>
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<tr>
<td>Mt 104 Diff. Equations</td>
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<td>MS 32 Second Year Basic</td>
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Junior Year

First Semester

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<td>PI 111 Phil. Psychology</td>
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<td>CA 1 Prin. of Speech</td>
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<td>Mt 106 Adv. Calculus</td>
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<td>Mt 144 Matrices, Vect. Spaces</td>
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Second Semester

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<td>PI 132 Pers, Social Ethics</td>
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<td>Mt 138 Interm. Analysis</td>
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Senior Year

First Semester

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<tbody>
<tr>
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<tr>
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</tr>
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<td>Mt 138 Elem. Topology</td>
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Second Semester

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<td>PI 132 Pers, Social Ethics</td>
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<td>Mt 138 Interm. Analysis</td>
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<td>Total</td>
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</table>

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
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.

To prepare for the senior comprehensive examination, which is a requirement for graduation, majors and minors will work during the junior and senior years with an assigned member of the department.

An outline of the curriculum follows:

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*Only lower division courses are offered in Russian.

B.S. (Modern Languages)

**Freshman Year**

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<td>Ha 8 Europe since 1500</td>
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**Sophomore Year**

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**Junior Year**

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**Senior Year**

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*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
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, 111, 131, 132, and one of the following electives: Pl 105, 106, 107, 133.

B. For a major: Pl 34, 100, 106, 107, 111, 131, 132, 151, 161, 199a and b.

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:

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<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<th>U.D.</th>
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B.S. (Philosophy)

Freshman Year

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<td>Ms 2</td>
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Sophomore Year

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Junior Year

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<td>Pl 151 or 161</td>
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<td>Pl 133</td>
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Senior Year

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*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
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.

All physics majors are required to take a minimum of 46 semester hours of physics. These hours must include Ph 111, 112, Ph 141, 142, and Ph 164, 165, six hours of Advanced Laboratory, and fourteen hours of University Physics.

Physics minors must take a minimum of twenty semester hours which include the eight-hour general physics course, and three hours of Mechanics.

All freshman physics majors must take the algebra and trigonometry examinations conducted by the mathematics department during freshman orientation week. The courses listed on the following page are for those freshmen who pass only one of these examinations. If both tests are passed, Mt 50 should be taken in the first semester of freshman year. This advances each mathematics course one semester and allows the student to take more physics later, or some other elective.

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

In cooperation with the Graduate School, the Department of Physics offers the following sequence of courses for teachers or prospective teachers who wish to obtain a concentration in physics: Ph 162, 174, 175, 176, and 177.

The minimum requirements follow:

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</table>

*If a student has advanced standing in algebra, he may register for Mt 50: Calculus. This advances each mathematics course one semester. Another possibility is to substitute Ph 34: Logic for the advanced standing course.

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 81 or 82.

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 Po 1, 2 and includes as required Po 131, 132, 148, and 199.

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:

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<th>Subject</th>
<th>First Semester</th>
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</tbody>
</table>

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.*
THE BACHELOR OF SCIENCE (Psychology)

The Department of Psychology endeavors to acquaint students thoroughly with the content and methods of scientific psychology. While emphasizing the scientific approach in the understanding of human behavior and human personality, the psychology courses aim to show to the student that this branch of science is complementary to and compatible with a sound philosophy of human nature. In addition to the program leading to the Bachelor of Science in Psychology, the Department provides service courses to majors of other departments. The Bachelor of Science program in psychology aims to provide a general background for advanced studies in fields which presuppose understanding of human psychology such as clinical psychology, vocational and educational guidance, medicine, education, social work, and personnel work in business and industry.

Departmental requirements for a major are:
1. Completion of Ps 31 and 32 as an introduction to upper division work.
2. Twenty-seven credit hours in upper division courses including Ps 101, 102, 111, 119.
3. Twelve credit hours in French or German, unless substitution of another foreign language is approved by the Chairman of the Department of Psychology.
4. Satisfactory completion of Bl 3 and 4 to fulfill the science requirement, unless substitution of other science courses is approved by the Chairman of the Department of Psychology.

Departmental requirements for a minor include:
1. Completion of Ps 31 or 32.
2. Completion of fifteen credit hours in upper division work including Ps 111.

A summary of program requirements follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>L.D.</th>
<th>U.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology</td>
<td>6</td>
<td>27</td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
<td>12*</td>
</tr>
<tr>
<td>Christian Culture</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>English</td>
<td>12</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>2</td>
</tr>
</tbody>
</table>

*Minors in science are required to complete 16 hours.

---

### Freshman Year

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>En 3 English Comp.</td>
<td>3</td>
<td>En 4 English Comp.</td>
<td>3</td>
</tr>
<tr>
<td>Hs 7 Europe to 1500</td>
<td>3</td>
<td>Hs 8 Europe since 1500</td>
<td>3</td>
</tr>
<tr>
<td>Mt 11 (or 31)</td>
<td>3</td>
<td>Mt 12 (or 50)</td>
<td>3</td>
</tr>
<tr>
<td>Mt 1 First Year Basic</td>
<td>1</td>
<td>Mt 2 First Year Basic</td>
<td>1</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Th 41 Christ, Our Redeemer</td>
<td>2</td>
</tr>
<tr>
<td>Bl 3 General Zoology</td>
<td>4</td>
<td>Bl 4 General Zoology</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>Total</td>
<td>16</td>
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### Sophomore Year

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mt 1 Elem.</td>
<td>3</td>
<td>Mt 2 Elem.</td>
<td>3</td>
</tr>
<tr>
<td>MS 31 Second Year Basic</td>
<td>2</td>
<td>MS 32 Second Year Basic</td>
<td>2</td>
</tr>
<tr>
<td>En 31 Studies in Poetry*</td>
<td>3</td>
<td>En 32 Studies in Drama*</td>
<td>3</td>
</tr>
<tr>
<td>Ps 31 Gen. Psychology</td>
<td>3</td>
<td>Ps 111 Phil. Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Th 42 Christ in His Church</td>
<td>2</td>
<td>Th 43 Christ in the Soul</td>
<td>2</td>
</tr>
<tr>
<td>Pl 34 Logic</td>
<td>3</td>
<td>Ps 32 Adv. Gen. Psychology</td>
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<tr>
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### Junior Year

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>So 125 Marriage</td>
<td>2</td>
<td>Christian Culture</td>
<td>2</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td>ML 31 Intern.</td>
<td>3</td>
<td>ML 32 Intern.</td>
<td>3</td>
</tr>
<tr>
<td>Pl 100 Metaphysics</td>
<td>3</td>
<td>Pl 151 Prin. of Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Ps 101 Experimental I</td>
<td>3</td>
<td>Ps 102 Experimental II</td>
<td>3</td>
</tr>
<tr>
<td>Ps Elective</td>
<td>3</td>
<td>Ps Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>Total</td>
<td>17</td>
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</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 1 Prin. of Speech</td>
<td>2</td>
<td>Christian Culture</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
<td>3</td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td>Pl 152 Pers, Social Ethics</td>
<td>3</td>
<td>Pl 105, 106, 107, or 183</td>
<td>3</td>
</tr>
<tr>
<td>Ps Elective</td>
<td>3</td>
<td>Ps Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>

*Students (except those who have completed En 14) may substitute
En 34: Studies in the Novel for either En 31 or 32.

112
THE BACHELOR OF SCIENCE (Natural Sciences)
(For Pre-Medical and Pre-Dental Students)

The curriculum for pre-medical and pre-dental students presents a liberal arts program with emphasis on those sciences required for an adequate background for subsequent studies in medicine, in dentistry, and in similar professions. Recurrent pronouncements by Committees on Admissions at professional schools leave no doubt that they regard an education in the liberal arts as one of the most important factors in forming a genuinely capable and effective professional man.

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

### Freshman Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
<th>U.D.</th>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>8</td>
<td>10</td>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>13</td>
<td>11</td>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>Christian Culture</td>
<td>8</td>
<td>8</td>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>12</td>
<td>12</td>
<td>Science elective</td>
<td>3-6</td>
</tr>
<tr>
<td>German</td>
<td>6-12</td>
<td>6</td>
<td>Speech</td>
<td>2</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>6</td>
<td>Theology</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>6</td>
<td>Thesis</td>
<td>2</td>
</tr>
<tr>
<td>Military Science</td>
<td>6</td>
<td>6</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
<th>U.D.</th>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>4</td>
<td>4</td>
<td>General Zoology</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>4</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>English Comp.</td>
<td>3</td>
<td>3</td>
<td>English Comp.</td>
<td>3</td>
</tr>
<tr>
<td>Mt 31 (or 11)</td>
<td>3</td>
<td>3</td>
<td>Mt 50 (or 12)</td>
<td>3</td>
</tr>
<tr>
<td>MS 1 First Year Basic</td>
<td>1</td>
<td>1</td>
<td>MS 2 First Year Basic</td>
<td>1</td>
</tr>
<tr>
<td>Th 40 Christ in the Gospels</td>
<td>2</td>
<td>Total 17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
<th>U.D.</th>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>So 125 Marriage</td>
<td>2</td>
<td>2</td>
<td>Christian Culture</td>
<td>2</td>
</tr>
<tr>
<td>Ch 101 Organic Chemistry</td>
<td>4</td>
<td>4</td>
<td>Ch 102 Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>ML</td>
<td>3</td>
<td>3</td>
<td>ML</td>
<td>3</td>
</tr>
<tr>
<td>PI 100 Metaphysics</td>
<td>3</td>
<td>3</td>
<td>PI 105,106,107, or 133</td>
<td>3</td>
</tr>
<tr>
<td>CA 1 Prin. of Speech</td>
<td>2</td>
<td>2</td>
<td>Ch 190 Chem. Literature</td>
<td>1</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
<th>U.D.</th>
<th>Subject</th>
<th>Sem. Hrs. L.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 121 Elem. Phys. Chem.</td>
<td>3</td>
<td>3</td>
<td>Ch 180 Biochem. Lecture</td>
<td></td>
</tr>
<tr>
<td>En 31 Studies in Poetry*</td>
<td>3</td>
<td>3</td>
<td>En 32 Studies in Drama*</td>
<td>3</td>
</tr>
<tr>
<td>ML</td>
<td>3</td>
<td>3</td>
<td>ML</td>
<td>3</td>
</tr>
<tr>
<td>PI 131 Prin. of Ethics</td>
<td>3</td>
<td>3</td>
<td>PI 132 Pers., Social Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3-4</td>
<td>3-4</td>
<td>Science</td>
<td>3-4</td>
</tr>
<tr>
<td>Bl or Ch 199a Senior Thesis</td>
<td>1</td>
<td>Total 16-17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

1 Required of those who plan to concentrate in chemistry.
2 Students (except those who have completed En 14) may substitute En 31: Studies in the Novel for either En 31 or 32.
3 Required of those who plan to concentrate in biology.
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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>8</td>
<td>Military Science</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry</td>
<td>21</td>
<td>Philosophy</td>
<td>6</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>Theology</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.

Pre-Dental (Three-Year Course)

Freshman Year

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>BI 3</td>
<td>General Zoology</td>
<td>4</td>
<td>BI 4</td>
</tr>
<tr>
<td>Ch 3</td>
<td>General Chemistry</td>
<td>4</td>
<td>Ch 4</td>
</tr>
<tr>
<td>En 3</td>
<td>English Comp.</td>
<td>3</td>
<td>En 4</td>
</tr>
<tr>
<td>MS 1</td>
<td>First Year Basic</td>
<td>1</td>
<td>MS 2</td>
</tr>
<tr>
<td>Mt 50 (or 31)</td>
<td></td>
<td>Mt 51 (or 50)</td>
<td></td>
</tr>
<tr>
<td>Th 40</td>
<td>Christ in the Gospels</td>
<td>2</td>
<td>Th 41</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>Total</td>
<td>18</td>
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</table>

Sophomore Year

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 51</td>
<td>Elem. Quan, Analysis</td>
<td>4</td>
<td>Ha 8</td>
</tr>
<tr>
<td>Hs 7</td>
<td>Europe to 1500</td>
<td>3</td>
<td>MS 32</td>
</tr>
<tr>
<td>Ph 3</td>
<td>College Physics</td>
<td>4</td>
<td>Pl 100</td>
</tr>
<tr>
<td>PI 34</td>
<td>Logic</td>
<td>3</td>
<td>Ph 4</td>
</tr>
<tr>
<td>Th 42</td>
<td>Christ in His Church</td>
<td>2</td>
<td>Ps 31</td>
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<tr>
<td>Total</td>
<td>18</td>
<td>Th 43</td>
<td>Christ in the Soul</td>
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<tr>
<td>Total</td>
<td>20</td>
<td>Total</td>
<td>20</td>
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</tbody>
</table>

Junior Year

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>BI 101</td>
<td>Comp. Anat. of Vert.</td>
<td>4</td>
<td>Ch 102</td>
</tr>
<tr>
<td>So 125</td>
<td>Marriage</td>
<td>2</td>
<td>En 32</td>
</tr>
<tr>
<td>Ch 101</td>
<td>Organic Chemistry</td>
<td>4</td>
<td>CA 1</td>
</tr>
<tr>
<td>En 31</td>
<td>Studies in Poetry*</td>
<td>3</td>
<td>Pl 132</td>
</tr>
<tr>
<td>PI 131</td>
<td>Prin. of Ethics</td>
<td>3</td>
<td>Elective</td>
</tr>
<tr>
<td>So 126</td>
<td>Family</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>Total</td>
<td>17-18</td>
</tr>
</tbody>
</table>
PRE-LEGAL STUDY

Though many law schools admit students after three years of undergraduate study, Ohio law schools and certain others require four years of college work. All students who intend to take the Ohio Bar Examination must have a college degree before beginning the study of law.

American law schools do not prescribe specific subjects for pre-law study, but a liberal arts course is highly recommended. Theology and philosophy, history, the social sciences and languages, mathematics, the natural sciences, and the arts—all are valuable for the future lawyer in developing a sound philosophy of life, intellectual maturity and discipline, and a well-rounded background.

Law schools place great emphasis on the basic ability to use the English language well in reading, in speaking, and especially in writing. One or two courses in accounting should be included in a pre-law program.

Students interested in a career in law should consult a member of the Xavier University Pre-Legal Committee. They are also urged to join the St. Thomas More Pre-Law Society.

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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latin</td>
<td>10</td>
<td>Modern Language</td>
<td>6–12</td>
</tr>
<tr>
<td>Greek</td>
<td>6</td>
<td>Math. or Science</td>
<td>6</td>
</tr>
<tr>
<td>English</td>
<td>9–12</td>
<td>Speech</td>
<td>4</td>
</tr>
<tr>
<td>Education</td>
<td>3</td>
<td>Theology</td>
<td>8</td>
</tr>
<tr>
<td>History</td>
<td>6</td>
<td>Electives</td>
<td>11–23</td>
</tr>
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</table>

Accounting:

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<th>Subject</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Ac 51, 52</td>
<td>Principles</td>
<td>6</td>
</tr>
<tr>
<td>Ac 166</td>
<td>Financial Statements</td>
<td>3</td>
</tr>
</tbody>
</table>

Business Administration:

<table>
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<tr>
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<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 23</td>
<td>Business Correspondence</td>
<td>2</td>
</tr>
<tr>
<td>BA 190</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BA 193, 194</td>
<td>Business Law</td>
<td>6</td>
</tr>
<tr>
<td>BA 199</td>
<td>Senior Comprehensive</td>
<td>2</td>
</tr>
<tr>
<td>Mg 90</td>
<td>Management Principles</td>
<td>3</td>
</tr>
<tr>
<td>Mg 108</td>
<td>Management Research</td>
<td>3</td>
</tr>
<tr>
<td>Mg/IR 115</td>
<td>Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>Mk 70</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
<tr>
<td>Mk 186</td>
<td>Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>IR 180</td>
<td>Labor Economics</td>
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<tr>
<td>IR</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>BA or Ec</td>
<td>Electives</td>
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Economics:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ec 33, 34</td>
<td>Principles</td>
<td>6</td>
</tr>
<tr>
<td>Ec 132</td>
<td>Economic Theory and Christian Thought</td>
<td>2</td>
</tr>
<tr>
<td>Ec/Fl 150</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>Ec/Fl 160</td>
<td>Business Finance</td>
<td>3</td>
</tr>
</tbody>
</table>
Degree Programs—
The College of Business Administration

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:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
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<tr>
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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.B.A. (Economics) must complete these specified courses:

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Total 60

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

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B.S.B.A (Economics)

**Freshman Year**

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**Senior Year**

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*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.*
THE BACHELOR OF SCIENCE IN BUSINESS
ADMINISTRATION (Finance)

The Bachelor of Science in Business Administration program in finance develops an appreciation in the student of financial management and financial operation. Every majoring in finance must take three basic courses designed to acquaint him with the various financial records of the firm, the character and appraisal of corporate securities, and the financial techniques applicable to the various phases of this discipline. In addition, the student may choose elective subjects. This permits him to aim at a particular segment of finance such as corporate finance, security sales, etc. Certain courses are offered each semester. Others are cycled every other semester or every other year to provide the greatest diversification possible. Majors in finance will be offered opportunities to inspect various financial institutions and to meet with professionals in the field.

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

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**Junior Year**

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**Senior Year**

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*Students (except those who have completed En 14) may substitute En 84: Studies in the Novel for either En 31 or 32.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Industrial Relations)

In an industrial society which is becoming increasingly more complex and interdependent, the need for leaders in the area of industrial relations with a well-rounded professional training is a necessity. This program is designed to provide specific knowledge of labor and is supported by strong cultural background in the liberal arts. Concentration in industrial relations will acquaint the student with the economic, social, political, and psychological aspects of labor problems and relations. It, also, prepares him for further academic study and for positions in government, industry, or the labor movement.

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<td>Ec 140</td>
<td>Economic History of U.S.</td>
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<tr>
<td>Fl 150</td>
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Prescribed subjects and credit hours required for the B.S.B.A (Industrial Relations) follow:

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<td>Christian Culture</td>
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<td></td>
<td>Military Science</td>
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<td>Economics</td>
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<td>3</td>
<td>Philosophy</td>
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<td>English</td>
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<td>Speech</td>
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<td><strong>Freshman Year</strong></td>
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<td><strong>First Semester</strong></td>
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<td>MS 1</td>
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| **Sophomore Year**          |
| **First Semester** | **Sem. Hrs.** | **Second Semester** | **Sem. Hrs.** |
| Mg 90 | Prin. of Management | 3 | Mg 70 | Prin. of Marketing | 3 |
| Ec 130 | Labor Economics | 3 | Fi 160 | Business Finance | 3 |
| En 31 | Studies in Poetry* | 3 | En 32 | Studies in Drama* | 3 |
| Ps 31 | Gen. Psychology | 3 | Th 43 | Christ in the Soul | 2 |
| Th 42 | Christ in His Church | 2 | MS 32 | Second Year Basic | 2 |
| MS 31 | Second Year Basic | 2 | CA 1 | Prin. of Speech | 2 |
| Total | 16 | Total | 18 |

| **Junior Year**            |
| **First Semester** | **Sem. Hrs.** | **Second Semester** | **Sem. Hrs.** |
| IR 115 | Personnel Admin | 3 | IR 116 | Labor Relations | 3 |
| BA 193 | Business Law | 3 | BA 194 | Business Law II | 3 |
| IR Elective | 3 | BA 190 | Business Statistics | 3 |
| Science | 4 | Science | 4 |
| PI 111 | Phil. Psychology | 3 | PI 100 | Metaphysics | 3 |
| So 125 | Marriage | 2 | Total | 18 |
| Total | 18 | Total | 16 |

| **Senior Year**            |
| **First Semester** | **Sem. Hrs.** | **Second Semester** | **Sem. Hrs.** |
| IR 128 | Indus. Psychology | 3 | BA 196 | Bus. Admin. Probs | 3 |
| Ec 140 | Econ. History, U. S. | 3 | Ec 150 | Money and Banking | 3 |
| IR Elective | 3 | IR Elective | 3 |
| PI 131 | Prin. of Ethics | 3 | PI 132 | Pers, Social Ethics | 3 |
| Christian Culture | 3 | PI 105, 106, 107, or 133 | 3 |
| (Ec 132 Recommended) | 3 | Total | 15 |
| Total | 15 | Total | 15 |

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
THE BACHELOR OF SCIENCE IN BUSINESS
 ADMINISTRATION (Management)

Contributions of the business world to society are largely dependent on good management.

The objectives of this program are to facilitate such contributions by:

1. Providing specialized professional training in the principles and the practices for the effective operation of the business organization.
2. Stimulating the application of sound philosophical principles to the wide range of problems encountered by management.
3. Aiding in the development of the student's intellect and personality to prepare him for leadership in society.

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

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<th>Sem. Hrs.</th>
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<td>Fi 150</td>
<td>Money and Banking</td>
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<tr>
<td>Fi 169</td>
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<tr>
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<tr>
<td>BA 193, 194</td>
<td>Business Law</td>
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Prescribed subjects and credit hours required for the B.S.B.A. (Management) follow:

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<td>Christian Culture</td>
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<td>Military Science</td>
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<td>Philosophy</td>
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<table>
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<tr>
<th>Senior Year</th>
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</table>

*Students (except those who have completed En 14) may substitute En 84: Studies in the Novel for either En 31 or 32.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Marketing)

The Bachelor of Science in Business Administration program with a concentration in marketing studies the institutions and functions of the modern distribution system. The program orients the student towards the total marketing concept so that, trained in the analytical processes, he is qualified for management responsibility in the marketing area. Furthermore, a student will find the study of marketing complementary to his choice of a career in the field.

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<td>Ec 33, 34</td>
<td>Principles of Economics</td>
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Total: 60

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

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B.S.B.A. (Marketing)

Freshman Year

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Total: 18

Sophomore Year

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<tr>
<td>Ms 31 Second Year Basic</td>
<td>2</td>
<td>Ca 1 Prin. of Speech</td>
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Total: 18

Junior Year

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<tr>
<td>Mk 171 Marketing Policy</td>
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<td>Mk 172 Marketing Research</td>
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<tr>
<td>Ba 193 Business Law I</td>
<td>3</td>
<td>Ba 194 Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>Ba 190 Business Statistics</td>
<td>3</td>
<td>Mk Elective</td>
<td>3</td>
</tr>
<tr>
<td>Fl 150 Money and Banking</td>
<td>3</td>
<td>Sc 4 Science</td>
<td>3</td>
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<tr>
<td>Fl 160 Business Finance</td>
<td>3</td>
<td>Fl 111 Phil. Psychology</td>
<td>3</td>
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<tr>
<td>So 125 Marriage</td>
<td>2</td>
<td>Pl 100 Metaphysics</td>
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Total: 16

Senior Year

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<tr>
<td>Ec 150 Money and Banking</td>
<td>3</td>
<td>Ba 196 Bus. Admin. Probs.</td>
<td>3</td>
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<tr>
<td>Mk Elective</td>
<td>6</td>
<td>Mk 175 Marketing Mgt.</td>
<td>3</td>
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<tr>
<td>Pl 131 Prin. of Ethics</td>
<td>3</td>
<td>Ec 140 Econ. History, U. S.</td>
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<tr>
<td>Christian Culture</td>
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<td>Pl 132 Pers., Social Ethics</td>
<td>3</td>
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<td>(Ec 132 Recommended)</td>
<td>3</td>
<td>Pl 105, 106, 107, or 133</td>
<td>3</td>
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Total: 15

*Students (except those who have completed En 14) may substitute En 34: Studies in the Novel for either En 31 or 32.
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)
- Biology (Bi)
- Business Administration (BA)
- Chemistry (Ch)
- Christian Culture (CC)
- Communication Arts (CA)
- Economics (Ec)
- Education (Ed)
- English (En)
- Finance (Fi)
- French (Fr)
- Geography (Gg)
- German (Gr)
- Greek (Gk)
- History (Hs)
- Industrial Relations (IR)
- Latin (Lt)
- Management (Mg)
- Marketing (Mk)
- Mathematics (Mt)
- Military Science (MS)
- Modern Language (ML)
- Philosophy (Pl)
- Physics (Ph)
- Political Science (Ps)
- Psychology (Ps)
- Russian (Ru)
- Sociology (So)
- Spanish (Sp)
- Theology (Th)

Departments—
The College of Arts and Sciences

Biology (Bi)

Staff: Fr. Peters, chairman; Mr. Cusick, Dr. Higgins, Mr. Laycock, Dr. Tafuri.

Laboratory Teaching Assistants: Mr. Fondacaro, Mr. Gilsdorf, Mr. Munch.

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

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

A major consists of 8 credit hours of lower division work and 28 credit hours of upper division work inclusive of a senior thesis, Bi 199. A minor consists of 8 credit hours of lower division work and 14 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 Bi 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.
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 BI 9. Two lectures and two hours of laboratory. Prerequisite: BI 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: BI 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.

106. **MICROBIOLOGY.** Four credit hours. A study of the physiology and morphology of the algae, bacteria, and fungi. Isolation and culture methods and the beneficial and detrimental effects of these organisms will be included. Prerequisite: BI 105.

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: BI 3, 4.

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: BI 1 and 2, or BI 3 and 4. (Ps 121)

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.

143. **GENERAL ENTOMOLOGY.** Four credit hours. Two lectures and four hours of laboratory.

144. **INVERTEBRATE ZOOLOGY.** Four credit hours. Two lectures and four hours of laboratory.

152. **GENETICS.** Two or three credit hours. A study of the principles of heredity and the operation of hereditary factors in the development of individual traits. Two lectures and two hours of laboratory.

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. **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.

188. **ECOLOGICAL PRINCIPLES.** Four credit hours. Two lectures and four hours of laboratory.

192a. **SPECIAL PROBLEMS IN BIOLOGY.** One to four credit hours. This course is designed to give the student an opportunity to engage in independent study of some specialized field of biology. A charge will be made for materials used in the laboratory.

192b. **SPECIAL PROBLEMS IN BIOLOGY.** One to four credit hours. A continuation of BI 192a.

194. **THEORY OF EVOLUTION.** Two credit hours. A study of organic evolution. Two lectures: no laboratory. Prerequisite: BI 1, 2 or 3, 4.

199a. **METHODS OF BIOLOGICAL RESEARCH.** One credit hour. 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. The fee of $25 is payable only once for BI 199a and BI 199b.

199b. **METHODS OF BIOLOGICAL RESEARCH.** One credit hour. A continuation and completion of BI 199a.
Chemistry

Chemistry (Ch)

Staff: Dr. Johnson, chairman; Dr. Dube, Dr. Garascia, Dr. Klingenberg, Dr. O'Neill, Fr. Thepe.

Assisted by: Miss Busemeyer, Dr. Flutt, Mr. Hauser, Dr. Wiers, Dr. Wild.

Graduate Assistants: Mr. Bilesky, Mr. Buerkle, Mr. Davis, Mr. Friedman, Mr. Fuchs, Mr. Gandhi, Mrs. Knecht, Mr. Kulich, Mr. Lynch, Mr. Mader, Mr. Metzger, Mr. Watson, Mr. Westendorf.

UNDERGRADUATE DIVISION

Lower Division Courses

1. FOUNDATIONS OF CHEMISTRY. Four credit hours. A terminal course for non-science majors which introduces the student to the structure of matter. The subjects covered include mechanics, kinetic molecular theory, electricity and magnetism, atomic and molecular structure, and nuclear processes. Three lectures and two hours of laboratory per week.

2. FOUNDATIONS OF CHEMISTRY. Four credit hours. A terminal course for non-science majors which stresses the chemical aspects of materials in use today.

3. GENERAL CHEMISTRY. Four or five credit hours. Lectures and demonstrations combined with discussions of problems and laboratory work. An examination of the basic principles and descriptive facts of general chemistry. Included are treatment of atomic and molecular structure, states of matter, solutions, ionic equilibria, kinetics, and the chemistry of representative elements. Three lectures and three to six hours of laboratory per week. Prerequisite to all other courses in chemistry except Ch 1 and 2.

4. GENERAL CHEMISTRY. Four or five credit hours. A continuation of Ch 3. The laboratory work includes some qualitative inorganic analysis. Three lectures and three to six hours of laboratory per week.

3-4. GENERAL CHEMISTRY I. Three credit hours. Evening Division only.

GENERAL CHEMISTRY II. Three credit hours. Evening Division only.

GENERAL CHEMISTRY III. Three credit hours. Evening Division only.

51. QUANTITATIVE CHEMISTRY. Four credit hours. An introduction to the theory and practice of analytical chemistry. Three lectures and four hours of laboratory per week.

Upper Division Courses

101. ORGANIC CHEMISTRY. Four credit hours. An introductory course treating the structure, preparation, reactions, and properties of carbon compounds. Three lectures and four hours of laboratory work per week. Prerequisites: Ch 3 and 4.

102. ORGANIC CHEMISTRY. Four 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. INTERMEDIATE ORGANIC CHEMISTRY. Two credit hours. An extension of fundamental organic chemistry to include topics not previously considered. Some emphasis on synthetic methods. Two lectures per week. Prerequisite: Ch 102.

116. CHEMICAL MEASUREMENTS. Four credit hours. Two lectures and six hours of laboratory per week. Modern analytical chemistry with emphasis on instrumentation and measurement techniques. Prerequisites: Ch 51, 102, and 126.

121. ELEMENTARY PHYSICAL CHEMISTRY. Three or four credit hours. A course intended primarily for pre-medical students who have not had Mt 50. Three lectures. One four-hour laboratory period per week if elected for four credit hours. Prerequisite: Ch 51.

125. PHYSICAL CHEMISTRY. Three credit hours. Three lectures per week. Prerequisites: Ch 4, Mt 51.

126. PHYSICAL CHEMISTRY. Four credit hours. A continuation of Ch 125, which is prerequisite. Three lectures and four hours of laboratory work.

161. INORGANIC PREPARATIONS. One lecture or 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.
159. ORGANIC PREPARATIONS. One, two or three credit hours. Lecture or consultation 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. One lecture or individual consultation, and three hours of laboratory work per credit hour. Prerequisites: Ch 51, 101, 102.

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. Prerequisite: Ch 102.

161. BIOCHEMISTRY LABORATORY. One or two credit hours. Experiments designed to illustrate biochemical principles. Three hours of laboratory per week per credit hour.

170. INORGANIC CHEMISTRY. Three credit hours. A presentation of modern theories of bonding and structure, as applied to inorganic compounds, with associated descriptive chemistry. Prerequisite: Ch 125.

171. INORGANIC CHEMISTRY LABORATORY. One credit hour. Laboratory techniques and practice in synthetic inorganic chemistry. One laboratory period per week. Prerequisite: Ch 170.

180. INTRODUCTION TO RADIOCHEMISTRY. Two credit hours. Lecture and laboratory. Basic principles of radiochemistry and methodology of instrumental techniques in the field.

190. CHEMICAL LITERATURE. One credit hour. An introduction to the nature and use of the chemical literature. Prerequisite: junior standing.

192. PROBLEMS IN CHEMISTRY. Credit to be arranged. Conferences and direction in library and laboratory work. Problems may be selected from any area of chemistry. A charge will be made for materials used in the laboratory. Prerequisite: permission of the Chairman of the Department.

199a. SENIOR THESIS. One credit hour. 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.

199b. SENIOR THESIS. One credit hour. A continuation and conclusion of research begun in 199a. No additional charge for materials will be made.

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**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.


**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 full-time students majoring in chemistry. Prerequisite: graduate standing.

201. ORGANIC CHEMISTRY FOR TEACHERS. Six credit hours. Four lecture and two laboratory credits. A course covering the preparation, properties, and reactions of the more common types of organic compounds. Laboratory work will include synthesis and identification of compounds.

202. THEORETICAL CHEMISTRY FOR TEACHERS. Six credit hours. Four lecture and two laboratory credits. A course intended to present the basic principles of physical and quantitative chemistry. Laboratory work will consist of experiments in both physical and analytical chemistry.

203. INORGANIC CHEMISTRY FOR TEACHERS. Four credit hours. Lectures only. This course will normally accompany Ch 204. Modern structural inorganic chemistry as well as descriptive chemistry based on the periodic relationships will be covered.

204. CHEMICAL RESEARCH FOR TEACHERS. Two credit hours. Laboratory work, library work, and written and oral report. After instruction in the use of chemical literature, the student selects a research topic upon which he will begin work during the same summer. Upon completion of the project, he submits a written report. An oral examination will be given over this material to satisfy the final examination requirement for the concentration in chemistry.

207. ADVANCED ORGANIC CHEMISTRY. Two credit hours. A review and extension of fundamental organic chemistry in the light of modern structural theory. Special topics not ordinarily included in the elementary approach are included. Two lectures per week.
208. **Advanced Organic Chemistry.** Two credit hours. A continuation of Ch 207.

210. **Radiochemistry.** Two credit hours. An introduction to the principles of radiochemistry, properties of radioactive nuclides, and methodology of radiochemical applications.

211. **Radiochemistry Laboratory.** Two credit hours. Laboratory and instrumental technique in radiochemistry. Prerequisite: Ch 210.

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 Analytical Chemistry.** Two credit hours. Comprehensive study of the theory and practice of analytical chemistry. Two lectures per week.

216. **Advanced Analytical Chemistry.** Two credit hours. A continuation of Ch 215.

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.** One or 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.

240. **Chemical Kinetics.** Two credit hours. Classical chemical kinetics of homogeneous systems. Prerequisite: Ch 126.

245. **The Chemical Bond.** Two credit hours. An introduction to the quantum theory of valence. Prerequisites: Ch 125, 126, and Mt 52.
Classical Languages

Classical Languages

Staff: DR. HARKINS, chairman; FR. BURKE, FR. DUNNE, FR. FELTEN, FR. HETHERINGTON, MR. HOWARD, DR. MURRAY, FR. PENDERGAST.

UNDERGRADUATE DIVISION

Greek (Gk)

Lower Division Courses

1. 2. ELEMENTARY GREEK. Six credit hours. One or two semesters.

5. 6. INTRODUCTION TO GREEK LITERATURE. Four or six credit hours. Two semesters.

7. Xenophon. Three or four credit hours.


11. Homer. Three credit hours. Readings from *The Iliad*.


17. Lysias: Selected Readings. Three or four credit hours.

18. Homer. Three credit hours. Selected portions of *The Odyssey*


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.

104. Christian Antiquity. Three credit hours. (Hs 104)

105. Classical Mythology. Three credit hours. (Lt 105, En 105)


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. Three or four credit hours.


152. Homer: Iliad, XIII-XXIV. Three credit hours.

153. Homer: Odyssey. 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


203. Greece to 480. 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.
Classical Languages

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.
264. 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: 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.

Upper Division Courses
Open to Advanced Undergraduates and to Graduates

20. LATIN READINGS. Two credit hours. Graded readings selected 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.

Classical Languages

20. LATIN READINGS. Two credit hours. Graded readings selected 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.
105. CLASSICAL MYTHOLOGY. Three credit hours. (Gk 105, En 105)
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 MARCELO. 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 of standard English excerpts into Latin.
Classical Languages

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.
205. ROMAN REPUBLIC. Three credit hours. (Hs 205)
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.

Communication Arts (CA)

Staff: FR. FLYNN, chairman; MR. KVAPIL, MR. MAUPIN.

Assisted by: MR. GARTNER, DR. HAEFELE, DR. LINK, MR.
           LUNSFORD, MR. VAUGHAN, MR. YACKS.

Lower Division Courses

1. PRINCIPLES OF SPEECH. Two credit hours. Training in good
   speech habits for conversation and for speeches for business
   and social occasions. Voice, diction, and gestures are empha­
   sized in speaking assignments in the classroom.
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 CA 3. Given at Milford College.
20. VOICE AND PHONETICS. Three credit hours. Vocal quality,
    articulation and phonetic symbols.
40. ORAL INTERPRETATION. Three credit hours. Dynamic oral
    reading by use of mind, voice, and body in interpreting the
    printed word.
Communication Arts

Upper Division Courses

100. Public Speaking. Three credit hours. Preparation of formal addresses.

109. Fundamentals in Film Study. Three credit hours. This class will examine the components of the film which can serve as the basis for more perceptive and critical viewing. Editing, composition, and the psychology of film-watching. Special orientation for preparing a high school curriculum in film study. Visiting lecturers and the showing of numerous films.

110. Principles of Radio-TV. Two or three credit hours. Laboratory is included.

111. Radio-TV Script Writing. Two or three credit hours. The principles of the various forms of script writing for radio and television stations, including music continuity, commercial continuity, speech continuity, various adaptations, and original radio-TV drama.

112. Radio-TV Script Writing. Two or three credit hours. A continuation of CA 111.

113. TV Production-Direction. Two or three credit hours. A study and workshop in the principles of the planning, casting, rehearsing, and producing of various types of radio and television programs. Emphasis upon the specific duties and techniques of producing and directing programs.

114. Radio-TV Announcing. Two or three credit hours. A study and training in studio procedures, interpretation and delivery of radio and television copy and script, including news, feature scripts, continuity, and commercials. Tape recordings, intercom and actual broadcasting, and telecasting experience are provided. Prerequisite: CA 1.

115. Radio-TV Announcing. Two or three credit hours. A continuation of CA 114.

116. Educational Television. Two to four credit hours. (Ed 116)

117. Audio-Visual Communication. Two to four credit hours. (Ed 117)

120. Survey of Mass Communications. Three credit hours. Survey of organization and functions of newspapers, magazines, radio, television, film, and other mass media for communicating information to the public.

130. Speech Therapy. Two or three credit hours. (Ed 130)

141. Acting Technique. Three credit hours. Pantomime, improvisation and general movement. Workshop in scenes, character development and make-up.

142. Directing. Three credit hours. Techniques and principles. Workshop productions directed by students.

143. Stagecraft. Three credit hours. Scenic design, building of scenery, lighting, etc.

144. Play Production. Three credit hours. Play selection, casting, rehearsals, business management, etc.

146. Playwriting. Three credit hours. General principles in the development of plot, characters and dialogue.

147. Theater Classics Workshop. Four credit hours.

151. Advanced Acting Techniques. Three credit hours.

152. Advanced Directing. Three credit hours.

153. Play Production Workshop. Three or four credit hours. (Ed 153)


170. Principles of Journalism. Two or three credit hours.

171. News Writing. Two or three credit hours. Gathering the news and presenting it for publication. Lectures on the operations of a newspaper, the administration of the news staff, and news values. Discussion of the merit of various presentations of news stories. Practical exercises in writing news stories.

172. Editorial Writing. Two or three credit hours.

173. Feature Writing. Two or three credit hours.

174. Reporting in Depth. Two or three credit hours.

180. Public Opinion and Propaganda. Two or three credit hours. Fundamental principles of publicity and a study of the techniques of propaganda, effects, purposes and counter-propaganda techniques. Public information media, what forces influence public opinion, and fundamentals of publicity, psychological warfare, promotional techniques, notoriety, press agentry in radio, television, newspapers, magazines, and other media. Demonstrations, movies, TV programs, and other aids are used in this course, and an analysis of Russian and Soviet methods of propaganda is made.
Commu.nication Arts

181. PUBLICITY AND PUBLIC RELATIONS. Two or three credit hours. Development, role, and function of public relations. Methods for building public confidence. Stockholders, industry, employee, and community relations. Sales force, dealer, and customer relations. Methods of applying these relation techniques to the utility, financial, trade, and labor organizations. Large and small retailers, non-profit and religious groups, newspapers, radio and television operations, and manufacturing businesses.

191. CREATIVE THINKING. Two or three credit hours. This course covers lecture material on the current knowledge of creativity and group methods to develop and practice creative thinking. A proportion of class time will be used to practice these techniques. There will be opportunities for optional creative work and for reading in the field of creativity.

Economics (Ec)

Staff: DR. WING, chairman; MR. DREESE, DR. HAILSTONES, MR. HALL, DR. LINK, MR. MASTRIANNA, DR. SCHULTZ.

Assisted by: DR. DONNELLY, MR. FATORA, MR. GERACI, DR. HAYES, MR. MANLEY, MR. ROTHWELL, MR. ZIMMER.

UNDERGRADUATE DIVISION

Lower Division Courses

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. Required for all upper division courses in economics.

34. PRINCIPLES OF ECONOMICS. Three credit hours. This course emphasizes the study and analysis of selected problems in the field of business economics. Required for all upper division courses in economics. Prerequisite: Ec 33.

40. CALCULUS OF ONE VARIABLE. Three credit hours. Limits and derivatives, differentiation of algebraic functions, integration. Applications of the calculus to the social sciences. Prerequisite: Mt 21 or 31. (Mt 40)

Upper Division Courses

100. SURVEY OF ACCOUNTING. Three credit hours. An accounting course geared to acquaint the non-accountant with the functions that underlie the creation of financial statements; the proper presentation of all items on the statement; and their use as tools by management in planning present and future business activity. (Ac 100)

116. LABOR RELATIONS. Three credit hours. See IR 116.

118. MATHEMATICS FOR ECONOMISTS. Three credit hours. Functions of several variables, partial derivatives, extreme values of functions, introduction to differential and difference equations. Prerequisite: Mt 40.

119. HISTORY OF THE LABOR MOVEMENT. Three credit hours. See IR 119.

120. LABOR LEGISLATION. Three credit hours. See IR 120.

122. CURRENT LABOR PROBLEMS. Three credit hours. See IR 122.

130. LABOR ECONOMICS. Three credit hours. A survey of organized labor and labor law; examination of wage determinants and wage theory; examination of causes and remedies of unemployment. (Mg 130)

132. ECONOMIC THEORY AND SOCIAL ORDER. Three 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.

133. MICROECONOMIC 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. Prerequisite: Ec 34.

134. MACROECONOMIC ANALYSIS. Three credit hours. This course concentrates on an analysis of the determinants of Gross National Product, employment levels, and rates of economic growth. The analysis is conducted within a framework of principles and relationships derived from the still developing body of modern macroeconomic theory. Prerequisite: Ec 34.

135. GOVERNMENT AND BUSINESS. Three credit hours. A study of the structure of government in the United States with respect
to government regulation of business. An analysis of the constitutional limitations: the due process of law regulations, the equal protection clause, privileges and immunities, and the extent of obligation of contract. (Po 135)

137. Economics. 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. (Gg 137)

138. 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.

139. 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.

140. 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.

141. 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.

143. Economics of the Communist State. Three 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; critical analysis of contemporary arguments against communism.

145. International Trade. Three credit hours. This course covers the theory, policy, and practice of United States trade with the rest of the world. Theory is covered to gain a body of knowledge needed to understand the causal relationships that underlie international economic transactions. Policy is studied to discover the role of government in international trade as well as international agreements between private producers. Practice is studied to understand the conduct of international business.

150. 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. (Fi 150)

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)

160. Business Finance. Three credit hours. The various types of American enterprises with special emphasis on the corporation—its organization, management, financing and budgeting.

190. 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. (BA 190)

197. Tutorial Course. Two or three credit hours. Special reading and study for advanced students.

Other courses acceptable for a major or minor in economics are acceptable at the discretion of the department chairman.

Education (Ed)

Staff: Dr. McCoy, chairman; Dr. Anderson, Dr. Clarke, Mr. Gaffney, Dr. Hale, Dr. Hanna, Mrs. Johnson, Mr. Lagrange, Dr. Link, Dr. Zohrer, Mr. Martin, Mr. P. Morse, Dr. Partridge, Mr. Scheurer, Mr. Schweikert, Dr. Sommer, Dr. Vordenberg.

Assisted by: Mr. Bishop, Mr. Bolser, Fr. Connelly, Mr. Daily, Mons. Franer, Mr. Galenstein, Mr. Garofalo, Mr. J. F. Glenn, Mr. H. Morse, Mrs. Rothschild, Mr. Seta, Mr. Vaughan, Mr. Werner,
## Lower Division Courses

### 31. Principles of Education
Three credit hours. The role of the school in society.

### 41. Educational Psychology
Three credit hours. Psychological principles applied to learning and teaching. Prerequisite: Ps 31. (Ps 41)

## 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.

### 103. Student Teaching
Six credit hours. Laboratory experience in high school teaching under the supervision of a critic teacher for one semester.

### 109. Fundamentals in Film Study
Three credit hours. This class will examine the components of the film which can serve as the basis for more perceptive and critical viewing. Editing, composition, and the psychology of film-watching. Special orientation for preparing a high school curriculum in film study. Visiting lecturers and the showing of numerous films. (CA 109)

### 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.

### 111. Social Case Work
Two or three credit hours. (So 111)

### 116. Educational Television
Two to four credit hours. (CA 116)

### 117. Audio-Visual Communication
Two to four credit hours. (CA 117)

### 118. Introduction to the Emotionally Disturbed Child
Two credit hours. (Ps 118)

### 119. Guiding the Emotionally Disturbed Child
Two credit hours. (Ps 119)

### 130. Speech Therapy
Two or three credit hours. (CA 130)

### 131. Psychological and Achievement Tests
Three credit hours. A survey of commonly used group tests; testing procedures and rationale underlying these tests; tests of intelligence, aptitude, achievement, interest, and personality critically examined; procedures described for selecting and evaluating specific group tests in these areas. Two lectures and two laboratory periods per week. (Ps 131) (Mg 131)

### 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 or three credit hours. Dynamics of a disturbed personality; symptoms, causes, and treatment of psychoneuroses, psychoses, and deviant personalities. Theoretical descriptions are illustrated through visual aids and field trips. (Ps 136)

### 138. Statistical Techniques
Two or three credit hours. A study of basic statistics used in psychology and education, including sampling techniques, measures of central tendency, variability, and simple correlation. Two lectures and two laboratory periods per week. (Ps 138)

### 142. Mental Hygiene
Two credit hours. A study of the progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (Ps 142)

### 150. Moral Principles in Guidance
Two or three credit hours. Principles of moral Theology as applied particularly in student guidance and counselling. (Th 150)

### 153. Play Production Workshop
Three or four credit hours. (CA 153)

### 155. Dynamic Psychology
Two credit hours. Critical appreciation of personality concepts and methodology of various psychotherapeutic schools. While special attention is given
to Freud's contribution, other schools considered are Adlerian, Jungian, Rankian, Existential Therapy, and Client-Centered Therapy. (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. A study of the individual's personality, attitudes, and behavior in multi-individual situations. (Ps 168, So 168)

159. Coaching: Wrestling. Two credit hours. Elective open to upper division students only.

160. Coaching: Tumbling and Gymnastics. Two credit hours. Elective open to upper division students only.

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. 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.


166. Coaching: Basketball. One credit hour.


169. Practicum: Community Recreation. Two credit hours.

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. (Ps 170)


172. Coaching: Track and Field. One credit hour.

173. Theory of Officiating. Two credit hours. Elective open to upper division students only.

177. Theories of Personality I. Two credit hours. Contributions of psychology to the study and understanding of human personality; meaning and application of different concepts in description of personality dynamics; an anthropological analysis of man; his basic emotions, their mutual relationships, and their meaning; sources of personality formation; evaluation of current personality theories. (Ps 177)

178. Theories of Personality II. Two credit hours. A continuation of Ed 177. (Ps 178)

180. Introduction to Projective Techniques. Two or three credit hours. Theory and rationale of projective techniques. Introduction to the Rorschach technique, Thematic Apperception Test, Szondi Test, visual-motor tests, drawing techniques, and word association tests. Tests are described, and clinical illustrations are presented with case histories. (Ps 180)

197. Special Study. Two or three credit hours.

198. Tutorial Course. Credit to be arranged. Special reading and directed study for advanced students.

GRADUATE SCHOOL

The Department of Education of the Graduate School 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. Two and one credit hours. In this course two credit hours are devoted to major techniques and methods of educational research; comprehension of statistical terminology of research; and locating educational research on a given problem. The remaining credit hour is awarded on completion of an actual research project. A separate grade is given for each phase of the course.

Open to Graduate Students and Advanced Undergraduates

111. SOCIAL CASE WORK. Two or three credit hours. (So 111)
116. EDUCATIONAL TELEVISION. Two to four credit hours. (CA 116)
117. AUDIO-VISUAL COMMUNICATION. Two to four credit hours. (CA 117)
118. INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD. Two credit hours. (Ps 118)
119. GUIDING THE EMOTIONALLY DISTURBED CHILD. Two credit hours. (Ps 119)
130. SPEECH THERAPY. Two credit hours. (CA 130)
131. PSYCHOLOGICAL AND ACHIEVEMENT TESTS. Two or three credit hours. (Ps 131)
134. CHILD PSYCHOLOGY. Two credit hours. (Ps 134)
135. ADOLESCENT PSYCHOLOGY. Two credit hours. (Ps 135)
136. ABNORMAL PSYCHOLOGY. Two or three credit hours. (Ps 136)
138. STATISTICAL TECHNIQUES. Two or three credit hours. (Ps 138)
142. MENTAL HYGIENE. Two credit hours. (Ps 142)
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, So 158)
170. DIFFERENTIAL PSYCHOLOGY. Two credit hours. (Ps 170)
177. THEORIES OF PERSONALITY I. Two credit hours. (Ps 177)

178. THEORIES OF PERSONALITY II. Two credit hours. (Ps 178)
180. INTRODUCTION TO PROJECTIVE TECHNIQUES. Two or three credit hours. (Ps 180)

Open to Graduate Students Only

204. DEVELOPMENTAL PSYCHOLOGY. Three credit hours. (Ps 204)
209. PSYCHOPATHOLOGY. Two credit hours. (Ps 209)
210. LEARNING AND MOTIVATION. Two or three credit hours. (Ps 210)
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.
220. CLINICAL STUDIES: EMOTIONALLY DISTURBED CHILD. Two credit hours. (Ps 220)
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.
223. SEMINAR: BUSINESS EDUCATION. Three credit hours.
227. INNOVATION IN INSTRUCTIONAL ORGANIZATION. Two credit hours.
232. EDUCATIONAL AND VOCATIONAL GUIDANCE. Two credit hours. The school's responsibility for moral, social, and vocational guidance. Essentials of an adequate guidance program.
234. ELEMENTARY SCHOOL GUIDANCE. Two credit hours.
235. OCCUPATIONAL INFORMATION AND JOB ANALYSIS. Two credit hours. (Ps 235)
237. INDIVIDUAL TESTS OF INTELLIGENCE. Four credit hours. Underlying theory, administration, scoring, interpretation, and reporting of the individual tests of intelligence.
239. GUIDANCE LABORATORY. Two credit hours. Study of individual pupils: collecting pertinent data, interviewing, recording, diagnosis, inter-agency collaboration. Practicum. Prerequisites: Ed 131, 233.

241. ELEMENTARY SCHOOL ADMINISTRATION. Two credit hours. Criteria for an effective elementary school organization. Patterns of school organization. Administrative problems.


243. SUPERVISION OF INSTRUCTION. Two credit hours. Techniques of improving instruction through supervision.

244. SEMINAR: SELECTED ADMINISTRATIVE PROBLEMS. Two credit hours.

252. MONTESSORI EDUCATION: PSYCHOLOGICAL BASES. Three credit hours. (Ps 252)

253. MONTESSORI EDUCATION: HISTORICAL, THEORETICAL, AND DEVELOPMENTAL ASPECTS. Three credit hours. (Ps 253)

254. MONTESSORI METHODS AND MATERIALS: SENSORY LEVEL. Three credit hours.

255. MONTESSORI METHODS AND MATERIALS: ABSTRACT LEVEL. Three credit hours.

257. MONTESSORI INTERNSHIP I. Three credit hours.

258. MONTESSORI INTERNSHIP II. Three credit hours.

261. EDUCATIONAL SOCIOLOGY. Two credit hours. Discussions and seminar work on current social problems in relation to education; e.g., poverty, race relations, population moves, social control of schools, religious tensions, etc.

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.
Education

288. Research: Remedial Reading. One or two credit hours. Individual research. Prerequisite: Ed 207.

288g. Research: Psychology. One or two credit hours. Individual research. Prerequisite: Ed 207.

290. Administration of School Athletics. Three credit hours. Investigation and discussion of current problems and policies pertinent to administration of school athletics. Fall semester, 1962, and first summer session, 1963.

291. Leadership in Outdoor Recreation. Three credit hours. Consideration is given to the various types of camps, their administration, functions, and programs. Special emphasis is given to group and individual camping techniques.

292. Administration of Intramural Athletics. Three credit hours. Treatment of administrative problems, policies, and procedures involved in intramural athletics as applied to school systems.

293. Facilities for Physical Education, Health, and Recreation. Three credit hours. A study of plan and facilities for physical education, health, and recreation program construction, use, maintenance, safety as related to the total school and community program.

294. Physical Education for the Handicapped. Three credit hours. Methods, materials, and programs for the organization and administration of physical education to meet the special needs of atypical individuals in schools and the community.

295. Administration of Community Recreation. Three credit hours.

296. Administration of Physical Fitness Programs. Three credit hours. A study of activities designed to enhance the primary components of physical fitness. Included are recommendations for organizing and administering a functional physical fitness program for the various sports, physical education, and the individual.

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: Fr. Savage, chairman; Fr. Connolly, Dr. Dew, Dr. Dörring, Mr. Feldhaus, Mr. Fontana, Mr. J. A. Glenn, Mr. J. P. Glenn, Mr. Kleine-Kreutzmann, Fr. Schäfer, Fr. Shanley, Fr. Sullivan, Dr. Wentersdorf, Mr. Wessling, Dr. Wheeler, Dr. Willer.

Assisted by: Fr. Elliott Davidson, Mr. Flahive, Fr. Cormon Mullen, Mr. Schweikert, Dr. Vordenberg.

Graduate Assistants: Mr. Englert, Mr. Keller, Mr. Mazzaro, Mr. Rodier, Mr. Ziedenbecker.

UNDERGRADUATE DIVISION

Lower Division Courses


4. English Composition. Three credit hours. Description, narration. Forms of prose.


32. Studies in Drama. Three credit hours. Nature of drama and the theater; evaluation of representative plays. Required for graduation. Offered in second semester only.


Upper Division Courses

101. Advanced Writing. Three credit hours. For students preparing to teach English in high school.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>103</td>
<td>CREATIVE WRITING</td>
<td>3</td>
<td>Three credit hours.</td>
</tr>
<tr>
<td>105</td>
<td>CLASSICAL MYTHOLOGY</td>
<td>3</td>
<td>Three credit hours. By permission only. (Gk 105, Lt 105)</td>
</tr>
<tr>
<td>109</td>
<td>HISTORY OF THE ENGLISH LANGUAGE</td>
<td>3</td>
<td>Three credit hours. A study of the origins and development of the English language between c. 450 and the present day, with special reference to etymology and vocabulary, syntax and grammar, semantics, and phonology.</td>
</tr>
<tr>
<td>111</td>
<td>AESTHETICS AND LITERARY CRITICISM</td>
<td>3</td>
<td>Three credit hours. Philosophical basis of aesthetics; elements of taste; critical standards.</td>
</tr>
<tr>
<td>112</td>
<td>HISTORY OF LITERARY CRITICISM</td>
<td>3</td>
<td>Three credit hours. A study of the major critics of literature from Aristotle to T. S. Eliot.</td>
</tr>
<tr>
<td>121</td>
<td>MODERN DRAMA</td>
<td>3</td>
<td>Three credit hours. English and American drama. A study of the development of the contemporary drama from Ibsen to Arthur Miller.</td>
</tr>
<tr>
<td>125</td>
<td>THE SHORT STORY</td>
<td>3</td>
<td>Three credit hours. The study, analysis and evaluation of short stories—American, British, Irish, and Continental—in relation to the elements of the short story and to the over-all effect.</td>
</tr>
<tr>
<td>130</td>
<td>THE ENGLISH NOVEL TO HARDY</td>
<td>3</td>
<td>Three credit hours. A study of the development of the English novel from Richardson and Fielding to Thomas Hardy.</td>
</tr>
<tr>
<td>142</td>
<td>SURVEY OF ENGLISH LITERATURE TO 1750</td>
<td>3</td>
<td>Three credit hours. A study of the origins of English literature in both poetry and prose and its subsequent development to approximately 1750.</td>
</tr>
<tr>
<td>143</td>
<td>SURVEY OF ENGLISH LITERATURE SINCE 1750</td>
<td>3</td>
<td>Three credit hours. A study of the development of English literature in both poetry and prose from Burns and Blake to the present day.</td>
</tr>
<tr>
<td>144</td>
<td>MEDIEVAL ENGLISH LITERATURE</td>
<td>3</td>
<td>Three credit hours. Non-linguistic survey exclusive of Chaucer.</td>
</tr>
<tr>
<td>145</td>
<td>CHAUCER: The Canterbury Tales</td>
<td>3</td>
<td>Three credit hours. A brief introduction to Middle English and a detailed study of Chaucer's Canterbury Tales, with some reference to Chaucer's life and literary career.</td>
</tr>
</tbody>
</table>
176. **MODERN BRITISH POETRY.** Three credit hours. A study of poetry from Hardy and Hopkins to Dylan Thomas with special emphasis on Hopkins, Yeats, the Georgians, “trench poets,” Eliot, Auden, and Dylan Thomas.

177. **MODERN AMERICAN POETRY.** Three credit hours. A study of poetry from Whitman to Robert Lowell.

180. **SURVEY OF AMERICAN LITERATURE.** Three credit hours. A comprehensive study of American literature, poetry and prose, from the beginning of American literature until the present day, with close critical analysis given to certain works.

188. **THE AMERICAN NOVEL.** Three credit hours. A study of the development of the novel in American literature together with a study of the themes and traditions specific novels represent.

185. **SEMINAR IN AMERICAN ROMANTICISM.** Three credit hours. An intensive study of representative expressions of literary romanticism in America from 1830 to 1865, and an examination of some twentieth-century American literature in the light of nineteenth-century American romanticism. Limited enrollment.

194. **SPECIAL STUDY.** Credit by arrangement. Directed research.

199. **SENIOR COMPREHENSIVE REVIEW.** Two credit hours. Evening College only.

**GRADUATE DIVISION**

209. **HISTORY OF THE ENGLISH LANGUAGE.** Three credit hours. Directed research in linguistic problems arising from a study of the etymology, syntax, grammar, semantics, and phonology of the English language as it developed from c. 450 to the present day.

220. **ENGLISH DRAMA TO 1642.** Three credit hours. A study of the history of English drama from the mystery plays to the closing of the theaters, exclusive of Shakespeare.

221. **RESTORATION AND EIGHTEEN CENTURY DRAMA.** Three credit hours. A study of the drama from Dryden to Sheridan with emphasis on the heroic tragedy, comedy of manners, and sentimental comedy.

222. **STUDIES IN ENGLISH DRAMA SINCE NINETEENTH CENTURY.** Three credit hours.
265. STUDIES IN ROMANTIC LITERATURE. Three credit hours.
270. STUDIES IN VICTORIAN POETS. Three credit hours.
271. STUDIES IN VICTORIAN NON-FICTIONAL PROSE. Three credit hours.
275. STUDIES IN THE MODERN NOVEL. Three credit hours.
276. STUDIES IN MODERN POETRY. Three credit hours.
282. STUDIES IN EARLY AMERICAN NOVEL. Three credit hours.
283. STUDIES IN NINETEENTH CENTURY AMERICAN NOVEL. Three credit hours.
284. STUDIES IN TWENTIETH CENTURY AMERICAN NOVEL. Three credit hours.
285. SEMINAR IN AMERICAN AUTHORS. Three credit hours. Authors to be specified by the professor.
286. SEMINAR IN NINETEENTH CENTURY AMERICAN POETS. Three credit hours. Poets to be specified by the professor.
287. SEMINAR IN MODERN AMERICAN POETS. Three credit hours. Poets to be specified by the professor.
290. SEMINAR IN CHAUCER. Three credit hours.
291. SEMINAR IN THE RENAISSANCE. Three credit hours.
292. SEMINAR IN SEVENTEENTH CENTURY LITERATURE. Three credit hours.
293. SEMINAR IN NEOCLASSICISM. Three credit hours.
294. SEMINAR IN ROMANTICISM. Three credit hours.
295. SEMINAR IN VICTORIAN LITERATURE. Three credit hours.
296. SEMINAR IN MODERN BRITISH POETS. Three credit hours.
297. SEMINAR IN MODERN BRITISH DRAMA. Three credit hours.
298. SEMINAR IN MODERN BRITISH NOVEL. Three credit hours.
299. MASTER'S THESIS. Six credit hours.

The contents of individual seminars will be specifically noted in the bulletins issued prior to each semester by the Graduate School.
History

Upper Division Courses

100. HISTORY OF ANCIENT GREECE. Three credit hours. The politics and society of old Greece. (Gk 100)

104. CHRISTIAN ANTIQUITY. Three credit hours. Early Christian society through the Patristic age.

106. HISTORY OF ANCIENT ROME. Three credit hours. The making of the foremost political creation of antiquity, its spread and its dissolution. Great Roman institutions and cultural monuments. (Lt 106)

107. CONSTITUTIONAL HISTORY OF ROME. Three credit hours. Development of the structure of law and justice. (Lt 107 and Po 107)

111. EARLY MIDDLE AGES, 300-1154. Three credit hours. Social and cultural change from the Age of Constantine to the Twelfth Century Renaissance.


121. RELIGIOUS UPHSAVAL IN THE 1500’s. Three credit hours. Individualism supplanting social outlook. Factors that split Christianity and divided the Medieval Republic.

122. EUROPE IN THE SEVENTEENTH CENTURY. Three credit hours. A study of the culture and politics of the Century of Expansion.


125. NINETEENTH CENTURY EUROPE TO 1870. Three credit hours. A study of Europe from Napoleon to Bismarck, with special attention to the romantic movement, liberalism, conservatism, nationalism, the economic revolution, and the rise of socialism.


131. ENGLAND TO 1603. Three credit hours. England from primitive times through Roman and medieval cultural development.


133. HISTORY OF SOUTHEAST ASIA. Three credit hours each semester.


136. SECTIONALISM, 1825-1861. Three credit hours. Statesmen and constitutional discussion. Rising Northern industry. The West is heard from. An entrenched South. Disuniting factors. Clash of wealth and ideas. The final appeal.


138. AGE OF BIG BUSINESS, 1885-1913. Three credit hours. Economic surge with its social and political sequel.

139. UNITED STATES IN THE TWENTIETH CENTURY. Three credit hours. Worldwide concern and influence of the nation.


140. HISTORY OF AMERICAN POLITICAL PARTIES. Three credit hours. Party formation and party rule in the United States. (Po 140)

141. HISTORY OF ANCIENT GREECE. Three credit hours. The politics and society of old Greece. (Gk 100)

142. HISTORY OF ANCIENT ROME. Three credit hours. The making of the foremost political creation of antiquity, its spread and its dissolution. Great Roman institutions and cultural monuments. (Lt 106)

143. CONSTITUTIONAL HISTORY OF ROME. Three credit hours. Development of the structure of law and justice. (Lt 107 and Po 107)

144. EARLY MIDDLE AGES, 300-1154. Three credit hours. Social and cultural change from the Age of Constantine to the Twelfth Century Renaissance.


147. RELIGIOUS UPHSAVAL IN THE 1500’s. Three credit hours. Individualism supplanting social outlook. Factors that split Christianity and divided the Medieval Republic.

148. EUROPE IN THE SEVENTEENTH CENTURY. Three credit hours. A study of the culture and politics of the Century of Expansion.


150. NINETEENTH CENTURY EUROPE TO 1870. Three credit hours. A study of Europe from Napoleon to Bismarck, with special attention to the romantic movement, liberalism, conservatism, nationalism, the economic revolution, and the rise of socialism.


149. **Catholic Church in the United States.** Three credit hours. Origin, growth, and participation of the Church in American society, in education, and in institutions.

150. **History of Ohio.** Three credit hours. Political and cultural patterns in the state. The part it played in national society.

151. **Colonial Hispanic America, 1492-1810.** Three credit hours. A course in the organization of empire by Spain and Portugal. Cultural and economic institutions. Administration. The missions basic to the story. Trade problems. Vast expansion. Decision for independence.

152. **Hispanic America Since 1810.** Three credit hours. Wars. Forming nations and governments. Religion vs. the State. Arts and letters. Foreign influence in economic affairs. Political thought. Making the OAS.


154. **The A. B. C. Powers.** Three credit hours. The history and development of Argentina, Brazil, and Chile from the Age of Discovery to the present.


156. **History of the West Since 1789.** Three credit hours. A continuation of Hs 155, through the process of occupying the entire continental territory and emphasizing state-making; cultural changes; paternalism and hardy pioneers; repeated frontier experiences; the Far West; the making of America.

157. **Rise of the American City.** Three credit hours. Emergence and importance of the city in socio-political America. (Po 158)

158. **Intellectual History of the United States.** Three credit hours.
History

179. NATIONALISM AND COMMUNISM IN ASIA. Three credit hours each semester. A study of the rise of Communist power in China and the nationalist and communist movements in neighboring areas.

181. HISTORY OF THE MIDDLE EAST AND NORTH AFRICA. Three credit hours each semester. A general survey of the Middle East and North Africa from the Prophet Mohammed to the present.

183. HISTORY OF JAPAN. Three credit hours each semester. A general survey of Japanese history from the earliest times to the present.

185. HISTORY OF CHINA. Three credit hours. A general survey of Chinese history from the earliest times through the Ming Dynasty.

186. HISTORY OF CHINA. Three credit hours. A general survey of Chinese history from the Manchu Dynasty to the present.

188. HISTORY OF AFRICA BELOW THE SAHARA. Three credit hours each semester. A general survey of African history below the Sahara from the earliest times to the present.

191. MEN AND IDEAS OF THE NINETEENTH CENTURY. Three credit hours. A survey of the vital economic, social, and political ideas developed by notable thinkers of Western Europe and the United States.

192. NATIONALISM IN MODERN TIMES. Three credit hours. An analysis of the principle of nationality and its relation to human nature and culture, biological heredity, and physical environment, followed by an exposition of the development of national consciousness and nationalist doctrines, and a survey of nationalist movements and their effects upon domestic and international politics.

194. HISTORICAL CRITICISM. Three credit hours. An undergraduate study of the canons of historical literature as found in its more notable productions. The problem of evidence. Truth in history. (Fall semester of senior class.)

198. ADVANCED READING AND RESEARCH. Three credit hours. Tutorial course for more gifted students under staff direction.

GRADUATE DIVISION

201. HISTORICAL METHOD. Three credit hours. Ordinarily prerequisite to and required in all cases for graduate students in history. A course in approach to research adapted to the degree of Master of Arts in history and to seminar work for that degree.

202. GREECE, THE FIFTH CENTURY. Three credit hours. (Gk 202)

203. GREECE TO 480. Three credit hours. (Gk 201)

205. ROMAN REPUBLIC. Three credit hours. (Lt 205)

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.

235. SEMINAR: SOUTH AND SOUTHEAST ASIA. Three credit hours.

243. "NEW ORDERS" OF THE TWENTIETH CENTURY. Three credit hours. A research course.

244. SEMINAR: JACKSONIAN ERA. Three credit hours.

246. SEMINAR: THE AGE OF BIG BUSINESS. Three credit hours.

247. SEMINAR: THE UNITED STATES IN THE TWENTIETH CENTURY. Three credit hours.

249. SEMINAR: CATHOLIC CHURCH IN THE UNITED STATES. Three credit hours.

251. SEMINAR: COLONIAL HISPANIC AMERICA. Three credit hours.

252. SEMINAR: REPUBLICAN HISPANIC AMERICA. Three credit hours.

256. SEMINAR: THE WEST TO 1783. Three credit hours. Based on the idea of Hs 156.

257. SEMINAR: THE WEST SINCE 1783. Three credit hours. Based on the idea of Hs 157.

258. SEMINAR: THE AMERICAN CITY. Three credit hours.

265. SEMINAR: TWENTIETH CENTURY EASTERN EUROPE. Three credit hours.

274. SEMINAR: UNITED STATES FOREIGN RELATIONS. Three credit hours. (Po 274)

285. SEMINAR: CHINA AND JAPAN. Three credit hours.

299. MASTER'S THESIS. Six credit hours.
Political Science

Political Science (Po)

UNDERGRADUATE DIVISION

Lower Division Courses

2. American Government. Three credit hours.

Upper Division Courses

107. Constitutional History of Rome. Three credit hours. (Hs 107, Lt 107)


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.

133. History of Southeast Asia. Three credit hours each semester.


136. Government and Business, II. Three credit hours. A study of federal labor law, federal regulation of agriculture, government taxing and spending policies, and the power of eminent domain. An analysis of the administrative and enforcement problems encountered in carrying out the government's policies. An exposition of the influence of mercantilism, economic liberalism, Keynesian theory, and national socialism on government regulation of business. (Ec 136)

137. History of Australia and Oceania. Three credit hours.

138. History of Hinduism and Buddhism. Three credit hours. (Pl 138)

140. History of American Political Parties. Three credit hours. (Hs 140)

141. The Presidency. Three credit hours. National Administration. Federal-State relationships. The constitutional concept of the office. The President as administrator, as commander-in-chief in wartime, as organ of foreign relations, and as political leader.

142. The Congress. Three credit hours. Congress, courts, structure, policies. The legislative process first in its constitutional concept and then in its political operation as related to the President and Congress.

148. Constitutional History of the United States. Three credit hours. (Hs 148)


156. Public Finance and Taxation. Three credit hours. (Ec 156)

158. Rise of the American City. Three credit hours. Emergence and importance of the city in socio-political America. (Hs 158)

169. History of South Asia. Three credit hours each semester.

170. A general survey of India, Pakistan, Ceylon, Nepal, Bhutan, Sikkim.

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)

Political Science

177. INTERNATIONAL RELATIONS. Three credit hours. (HS 177)

179. NATIONALISM AND COMMUNISM IN ASIA. Three credit hours each semester. A study of the rise of Communist power in China and the nationalist and communist movements in neighboring areas.

180. HISTORY OF THE MIDDLE EAST AND NORTH AFRICA. Three credit hours each semester. A general survey of the Middle East and North Africa from the Prophet Mohammed to the present.

181. HISTORY OF JAPAN. Three credit hours each semester. A general survey of Japanese history from the earliest times to the present.

182. HISTORY OF CHINA. Three credit hours. A general survey of Chinese history from the earliest times through the Ming Dynasty.

183. COMMUNISM: NATURE, OBJECTIVES, STRATEGY, TACTICS. Three credit hours.

184. HISTORY OF AFRICA BELOW THE SAHARA. Three credit hours each semester. A general survey of African history below the Sahara from the earliest times to the present.

185. HISTORY OF CHINA. Three credit hours. A general survey of Chinese history from the Manchu Dynasty to the present.

186. REBUILDING THE SOCIAL ORDER. Two credit hours. (So 195)

187. ADVANCED READING AND RESEARCH. Credit arranged.

188. SENIOR COMPREHENSIVE REVIEW. Two credit hours. Required of all seniors majoring in political science.

Mathematics (Mt)

Staff: DR. LARKIN, chairman; MR. BRUGGEMAN, DR. CERIMELE, MR. CISSELL, MRS. DAVIDOFF, MR. DELANEY, MR. FLASPOHLER, FR. ISENECKER.

Assisted by: MR. BROWN, MR. COLLINS, MR. CUMMINGS, MR. FEIGE, DR. GRACE, MR. KLIEB, MR. STRENK, MR. UHL, MR. WELTER.

Graduate Assistants: MR. DEW, MR. DIETZ, MR. KLUS, MR. MENNINGS, MR. STRUNK, MRS. WELCH.

UNDERGRADUATE DIVISION

Lower Division Courses

11. COLLEGE MATHEMATICS I. Three credit hours. Logic and sets, axioms for the integers, rational numbers and real numbers, equations and inequalities.

12. COLLEGE MATHEMATICS II. Three credit hours. Functions, exponential and logarithmic functions, trigonometric functions, introduction to analytic geometry and limiting processes.

21. MATHEMATICS OF ECONOMICS. Three credit hours. Graphing of functions. Linear, exponential, logarithmic, and quadratic functions. Systems of linear functions and functions of more than one variable.

22. MATHEMATICS OF FINANCE. Three credit hours. Compound interest and discount, annuities, amortization and sinking funds, depreciation, bonds, life insurance.

31. ALGEBRA AND TRIGONOMETRY. Three credit hours. The circular functions and applications, relation of circular functions to angles, inverse circular functions. Linear and quadratic functions, determinants, binomial theorem, mathematical induction.

40. CALCULUS OF ONE VARIABLE. Three credit hours. Limits and derivatives, differentiation of algebraic functions, integration. Applications of the calculus to social sciences. Prerequisite: Mt 21 or 31. (Ec 40)

48. FORTRAN PROGRAMMING. Three credit hours. Exhaustive treatment of Fortran II computer programming language. Introduction to Fortran IV.

50. CALCULUS AND GEOMETRY I. Three credit hours. The rate of change of function, derivatives of algebraic functions, applications, integration, applications in physics. Prerequisite: Mt 31.

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

Mt 52 is a prerequisite to any upper division course in mathematics except Mt 100.

100. COMPUTATIONAL MATHEMATICS. Three credit hours. Computer oriented solutions of algebraic equations, matrix algebra, least squares curve fitting, numerical integration, polynomial interpolation. Prerequisites: Mt 48, Mt 50, Mt 51.

104. DIFFERENTIAL EQUATIONS. Three credit hours. Equations of the first and second orders, linear equations with constant coefficients, systems of ordinary equations.

106. ADVANCED CALCULUS. Three credit hours. Limits and continuity, vector treatment of: derivatives, functions of several variables, definite integrals, multiple and line integrals.

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.

117. ECONOMETRICS. Three credit hours. Applications of economic theory, statistical methods, and the calculus to numerical economic data. Demand, cost, production, and other economic functions are analyzed in detail.

118. MATHEMATICS FOR ECONOMISTS. Three credit hours.

120. OPERATIONS RESEARCH I. Three credit hours.

121. OPERATIONS RESEARCH II. Three credit hours.

124. MATHEMATICAL STATISTICS I. Three credit hours. Probability, probability distributions (discrete, continuous, univariate, multivariate), characteristics of distributions, sampling. Prerequisite: Mt 52.

125. MATHEMATICAL STATISTICS II. Three credit hours. Estimation, hypothesis testing, confidence methods, regression analysis, factorial designs, experimental design, sampling inspection, non-parametric methods. Prerequisite: Mt 124.

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.

130. THEORY OF NUMBERS. Three credit hours.

136. TOPICS IN CALCULUS AND GEOMETRY FOR TEACHERS. Six credit hours. The rate of change of a function, derivatives of algebraic functions, plane analytic geometry, integration, vectors, and parametric equations. Credit may be applied only toward M.Ed. degree.

137. TOPICS IN LOGIC AND MODERN ALGEBRA. Six credit hours. Credit may be applied only toward M.Ed. degree.

138. TOPICS IN GEOMETRY AND STATISTICS. Six credit hours. Credit may be applied only toward M.Ed. degree.

140. LINEAR PROGRAMMING. Three credit hours.

144. MATRICES AND VECTOR SPACES. Three credit hours. Algebra of matrices, determinants, inverses, groups of transformations, vector spaces, linear and bilinear mappings.

145. INTRODUCTION TO MODERN ALGEBRA. Three credit hours. Groups, isomorphism, homomorphism, rings, ideals, fields, linear congruences, real numbers. Prerequisite: Mt 144.

151. PARTIAL DIFFERENTIAL EQUATIONS. Three credit hours.

155. ADVANCED ORDINARY DIFFERENTIAL EQUATIONS. Three credit hours.

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.

157. ORTHOGONAL FUNCTIONS. Three credit hours.

158. INTERMEDIATE ANALYSIS. Three credit hours. Rigorous definitions of differentiation and integration, the calculus of several variables, Riemann-Stieltjes integration, measure of elementary sets.

159. INTRODUCTION TO COMPLEX VARIABLE. Three credit hours. Complex numbers, sequences and series of numbers and functions, analytic functions, Cauchy integral theorem, power series, residues.

160. ELLIPTIC AND HYPERBOLIC FUNCTIONS. Three credit hours.
162. Projective Geometry. Three credit hours.
165. Mathematical Logic. Three credit hours.
170. Methods of Digital Computation I. Three credit hours.
171. Methods of Digital Computation II. Three credit hours.
181. Elementary Topology. Three credit hours. Point set topology of metric spaces, open and closed sets, continuity, compactness, limits. Prerequisite: Mt 145.
197. Special Reading and Study for Advanced Students. Credit by arrangement.

Graduate Division

Mt 200, 201, 202, 203, 204 are offered only in the summer. The other courses are offered in a two-year cycle in the evenings during the school year.

200. Topology. Three credit hours.
201. Real Analysis. Three credit hours.
202. Theory of Integration. Three credit hours.
203. Complex Analysis. Three credit hours.
204. Modern Algebra. Three credit hours.
244. Modern Algebra I. Three credit hours. Set theory, the system of natural numbers, semigroups and groups, rings, integral domains and fields, extensions of rings and fields.
245. Modern Algebra II. Three credit hours. Elementary factorization theory, groups with operators, Jordan-Holder Theorem, modules and ideals, lattices.
250. Functions of a Real Variable I. Three credit hours. Real number system, elements of set theory, numerical sequences and series, continuity, differentiation.
251. Functions of a Real Variable II. Three credit hours. Sequences and series of functions, functions of several variables, Riemann-Stieltjes integral, the Lebesque theory.
252. Functions of a Complex Variable I. Three credit hours. Number systems, complex plane, Mobius transformations, powers and roots, holomorphic functions, infinite series.
253. Functions of a Complex Variable II. Three credit hours. Elementary functions, complex integration, analytic continuation, Laurent expansion, meromorphic functions, calculus of residues.
255. Measure Theory and Integration. Three credit hours. Linear spaces, additive classes and Borel sets, outer measures, Lebesque-Stieltjes Measure, measurable functions, integration, convergence theorems, differentiation.
280. General Topology I. Three credit hours.
281. General Topology II. Three credit hours.
291. Seminar in Algebra. Three credit hours.
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 Reserve Officers' Training Corps


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 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-four, 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. Students entering the University at mid-year must wait until the beginning of the next academic year to begin their instruction in military science.
Any student who feels that he is not physically qualified to enroll in ROTC should send a letter, written by the University physician or family doctor, to the Department of Military Science prior to registration. This letter should contain a minimum, the student's physical limitations and the doctor's opinion as to the advisability of his participation in military training.

The Army annually provides scholarships to selected students. These scholarships provide payment of tuition fees, book costs, laboratory expenses, and $50.00 subsistence per month. The maximum term of scholarships is four years.

Students accepted for admission to the advanced corps qualify for draft exemption.

All advanced course students attending the required six weeks summer training will be paid travel allowance to and from the training installation at the rate of six cents per mile. Pay during the training period will be $151.95 per month.

All newly commissioned officers going on active duty will receive $300.00 uniform allowance.

Individuals who are granted scholarships must enlist in the Enlisted Reserve Unit at Xavier and sign a formal contract agreeing to accept a commission if offered and to serve on active duty for four years.

Application for exemption from basic military science can be made by a student if he has completed one of the following requirements:

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<tr>
<th>Requirement</th>
<th>Exemption</th>
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<tr>
<td>1. Completion of at least 4 months of continuous military training in any service...MS 1, 2, 31, 32</td>
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<tr>
<td>2. *Military Schools Division: MST 1 and 2...MS 1, 2</td>
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<td>MST 1, 2, 3, 4...MS 1, 2, 31, 32</td>
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<td>3. *Junior Div ROTC: MT 1, 2, 3...MS 1, 2</td>
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<td>4. *NDCC Training: MT 1, 2, 3...MS 1, 2</td>
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*Schools must be recognized by the Department of the Army.
Lower Division Courses

1. FIRST YEAR BASIC COURSE. Two credit hours. An introduction to military science which includes organization of the Army and ROTC; instruction and practice in marksmanship; study of the role of the US Army in national security; and basic training in the school of the soldier and the exercise of command. Additional course credit is granted in academic fields as agreed between the PMS and the Dean. Two semesters.

2. SECOND YEAR BASIC COURSE. Four credit hours. Further instruction in the basic duties of a soldier includes instruction in American military history; instruction and application of map and aerial photograph reading; introduction to Field Artillery tactics and techniques to include its mission, organization, and capabilities, material, communications, section drill, and a survey of the organization and tactical employment of missiles; and continuation of training in the school of the soldier and the exercise of command. Two semesters.

Upper Division Courses

101. FIRST YEAR ADVANCED COURSE. Two credit hours. The theory and application of military leadership; military teaching methods to include practical application of techniques; development of leadership potential through drill and the exercise of command. Additional course credit is granted for study in academic fields as agreed between the PMS and the Dean.

102. SECOND YEAR ADVANCED COURSE. Three credit hours. Field Artillery tactics and techniques to include: artillery survey; duties of firing battery personnel; procedures in adjusting artillery fires both as a forward observer and in the fire direction center; operation of a Field Artillery Battery and the tactical employment of artillery. Instruction and research in the role of the United States in world affairs. Leadership training through drill is continued with all students performing officer's duties at drill. Scholarships valued at $800 for pilot training are granted to qualifying seniors in the ROTC program who volunteer and are selected by the Chairman of the Military Department for the flight training offered by the Army ROTC at a Federal Aviation Administration (FAA) approved flying school.

103. THIRD YEAR ADVANCED COURSE. Three credit hours. Field Artillery tactics and techniques to include: artillery survey; duties of firing battery personnel; procedures in adjusting artillery fires both as a forward observer and in the fire direction center; operation of a Field Artillery Battery and the tactical employment of artillery. Instruction and research in the role of the United States in world affairs. Leadership training through drill is continued with all students performing officer's duties at drill. Scholarships valued at $800 for pilot training are granted to qualifying seniors in the ROTC program who volunteer and are selected by the Chairman of the Military Department for the flight training offered by the Army ROTC at a Federal Aviation Administration (FAA) approved flying school.

Modern Languages

Staff: Dr. Bourgeois, Chairman; Mr. Ebacher, Mr. Eick, Mr. Leonard, Mr. Rieselman, Mr. Schurr, Dr. Vega.

Assisted by: Dr. Eskenazi, Mr. Hilvers, Mrs. Molina, Mr. Plageman, Mr. Stademan, S.J.

Students who present two or more high school units of a modern language and who pass the Proficiency Test of the Modern Language Department may complete Intermediate French, German, Russian, or Spanish in fulfillment of their modern language requirement. This test is required of all incoming freshmen.

Normally, the successful completion of the second semester of the intermediate course is a prerequisite for enrollment in upper division courses.

Students electing a major or minor in French are required to complete Fr 101, 132, and 133; those in German must take Gr 101, 132, and 133; in Spanish the required courses are Sp 101, 132, and 133. To complete the requirement in French, students entering upper division work in an odd numbered year must begin with Fr 132; those beginning in an even numbered year must start with Fr 101.

Oral-aural exercises closely related to the material covered in elementary and intermediate language classes are available on a
regular schedule in the Geoghegan Memorial Language Laboratory. All students in elementary classes of German and Spanish are required to attend three 20-minute sessions per week; all intermediate language students except those in French, Scientific German, and Russian must attend two such sessions per week. The laboratory is used during class time in all oral elementary and intermediate French sections and in elementary and intermediate Russian classes.

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. This requirement is waived for students who have successfully completed Fr 198.

120. INTRODUCTION TO FRENCH CIVILIZATION. Three credit hours. A comprehensive examination of France, its political, economic, social, and cultural institutions, together with its geography and demography. May not be elected for credit after successful completion of Fr 198.

132. FRENCH LITERATURE TO LOUIS XIV. Three credit hours. Lectures and discussions of such major works of Medieval French Literature as La Chanson de Roland, Le Roman de Renard, Les Mysteres, Le Roman de la Rose. Reading in modernized French.

142. RENAISSANCE FRENCH LITERATURE. Three credit hours. A study of Renaissance and Reformation literature with emphasis on Rabelais, Montaigne, Calvin, Ronsard, Du Bellay.

151. SEVENTEENTH CENTURY FRENCH CLASSICAL DRAMA. Three credit hours. Observation, historical integration, and interpretation of representative dramas of Corneille, Moliere, and Racine.

153. SEVENTEENTH CENTURY FRENCH THOUGHT. Three credit hours. A survey of the century's philosophical, theological, and aesthetic ideas with emphasis on Descartes, Pascal, and Boileau.

160. EIGHTEENTH CENTURY LITERATURE. Three credit hours. A presentation of the philosophical and literary developments of the century, with emphasis on works by Voltaire, the Encyclopedists, Rousseau, and Marivaux.

171. NINETEENTH CENTURY FRENCH NOVEL. Three credit hours. Study of prominent prose writers within the framework of romanticism, realism, and naturalism, incorporating structural and interpretive analysis of the novel form.

178. NINETEENTH CENTURY FRENCH POETRY. Three credit hours. A study of the principal men and movements of the century, treating the poetry of romanticism, Parnassus, and symbolism.

175. BALZAC. Three credit hours. Readings and analysis of three of Balzac's masterworks. His times, life, and main philosophical and aesthetic ideas. Significance of La Comedie Humaine.

180. TWENTIETH CENTURY FRENCH DRAMA. Three credit hours. A review and analysis of the contemporary French theater through its main themes and practices, including plays by Claudel, Giraudoux, Anouilh, Sartre, Beckett, and Cocteau.
Modern Languages

194. SELECTED READINGS IN FRENCH. Credit by arrangement. A program created for independent readings and individual study of specific works of French literature under the supervision of a faculty member.

198. FREDIN SUMMER PROGRAM OF FRENCH STUDIES IN FRANCE. Credit by arrangement. A special memorial program for studies in French language and civilization in French institutions of learning. Prerequisite for participation in the program is Fr 31 and 32 or the equivalent. A number of partial grants-in-aid are available through the Fredin Memorial Scholarships Fund, established through the bequest of Mademoiselle Aline Fredin.

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.

120. Introduction to German Civilization. Three credit hours. An examination of German history, politics, philosophy, literature, and art from the middle of the Eighteenth Century to the present.

122. 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.

123. 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 122.

150. Seventeenth Century German Literature. Three credit hours. A survey of the German language of the Seventeenth Century. The lyric, drama, and prose of the period with a major emphasis on the works of Grimmelshausen.

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.

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.
Modern Languages

172. MODERN POETRY. Three credit hours. A study of representative German poets from Rilke to the present time.

180. MODERN LITERATURE. Three credit hours. A study of the principal trends in German literature since 1880. Readings from Hauptmann, Nietzsche, Schuizer, Mann, Kafka, and others.

181. MODERN LITERATURE. Three credit hours. A continuation of Gr 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.

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. Language laboratory drill sessions.

2. ELEMENTARY SPANISH. Three credit hours. A continuation of Sp 1.

31. INTERMEDIATE SPANISH. Three credit hours. Review of grammar with emphasis in written exercise. Language laboratory drill sessions. Prerequisite: Sp 2 or the equivalent.

32. INTERMEDIATE SPANISH. Three credit hours. Designed to develop facility in reading Spanish of normal difficulty. Language laboratory drill sessions. A continuation of Sp 31.

Upper Division Courses

101. ADVANCED ORAL AND WRITTEN COMPOSITION. Three credit hours. Required of all majors and minors.

120. SPANISH CIVILIZATION. Three credit hours. A summary of the essential characteristics of Spanish civilization and its contribution to the Occidental world.

124. LATIN-AMERICAN CIVILIZATION. Three credit hours. A study of the essential characteristics of the culture and civilization of Latin-America. Reading of essays by Marti, Montalvo, Rodo, and others.

132. SPANISH AUTHORS I. Three credit hours. The development of Spanish literature from the beginnings to the end of the Golden Century. Selected readings. Required of all majors and minors.

133. SPANISH AUTHORS II. Three credit hours. Spanish literature of the eighteenth, nineteenth, and twentieth centuries. A continuation of Sp 132. Required of all majors and minors.

134. LATIN-AMERICAN LITERATURE. Three credit hours. The development of Latin-American literature from the beginnings to the present time. Selected readings.

142. 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 Latin-America.

146. SPANISH NOVEL OF THE RENAISSANCE. Three credit hours. Main characteristics of the different kinds of novels of the period. Readings from La Celestina, Lazarillo de Tormes, and other important works.

149. SPANISH MYSTICS. Three credit hours. A study of the prose and poetry of this period with emphasis upon the works of Santa Teresa de Jesus, Fray Luis de Leon, and Juan de la Cruz.

150. THE NOVEL OF THE GOLDEN CENTURY. Three credit hours. Idealism and realism. The development of the Baroque. Selected readings.
Modern Languages

152. CERVANTES. Three credit hours. Life and works with analytical study of Don Quixote.


157. LOPE DE VEGA. Three credit hours. A study of his life and work. His lyrical poetry. Reading of representative plays.

159. CALDERON. Three credit hours. His ideas, poetry, and dramatic techniques. Reading and analysis of La vida es sueno. His mystery plays.

171. THE PROSE OF THE NINETEENTH CENTURY. Three credit hours. Literary movements. The costumbrista writers. Emphasis upon Pereda and Galdos.

173. THE POETRY OF THE NINETEENTH CENTURY. Three credit hours. Foreign influences and the national tradition. Analysis of poems by Rivas, Espronceda, Becquer, Campoamor, and others.

175. THE DRAMA OF THE NINETEENTH CENTURY. Three credit hours. A study of the main dramatists. Reading and discussion of plays by Moratin, Zorrilla, Tamayo y Baus, and Echegaray. The role of Galdos.

183. THE DRAMA OF THE TWENTIETH CENTURY. Three credit hours. Main trends and developments. The art of Benavente and Lorca. The genero chico and the Quintero brothers.

185. "MODERNISM" AND THE GENERATION OF 1898. Three credit hours. A study of these parallel movements with emphasis upon Unamuno, Baroja, Ortega, Dario, and Nervo.

186. CONTEMPORARY LATIN-AMERICAN NOVEL. Three credit hours. A study of the development of this genre with emphasis upon Gallegos, Azuela, and Ciro Alegría.

189. PRESENT-DAY LITERARY TRENDS. Three credit hours. The course presents the various literary trends in Spain and in Latin-America from the mid-20's to the present.

194. SELECTED READINGS. Credit by arrangement. A program created for independent readings and individual study of specific works of Hispanic literature under the supervision of a faculty member.

Philosophy (PI)

Staff: Fr. Kenney, chairman; Dr. Ashmore, Fr. Curran, Dr. Dupont, Dr. Gendreau, Mr. Hilmer, Fr. McPartlin, Mr. Magnier, Mr. Marrero, Fr. Oppenheim, Fr. Schmidt, Fr. Tracy, Fr. Wuehner.

Assisted by: Mrs. Adams, Mr. Mercurio.

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.

105. PHILOSOPHY OF NATURE. Three credit hours. An historical study of the basic problems concerning metaphysics of matter; the continuum, quantity, mechanism, space, place, motion, time and constitution of matter.

106. NATURAL THEOLOGY. Three 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: PI 100.

107. PHILOSOPHY OF HUMAN KNOWLEDGE. Three credit hours. A philosophical investigation of the problem of knowledge, of certainty, of error, and of the varieties of cognitive means with their results. Prerequisite: PI 111.

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. (Ps 111)

181. 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: PI 111.
Graduate Courses

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.

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.

135. AMERICAN PHILOSOPHY AND CHRIST. Three credit hours.

138. HISTORY OF HINDUISM AND BUDDHISM. Three credit hours. (Hs 138)

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.

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.

170. CURRENT PROBLEMS IN CATHOLIC PHILOSOPHY. Three credit hours. The response of Catholic philosophers to the impetus of Existentialism, Linguistic Analysis, Phenomenology; varieties of Christian Personalism.

181. HISTORY OF CONTEMPORARY PHILOSOPHY. Three credit hours. A survey of European and American philosophical thought of the Modern Era.

190. SEMINAR: PHILOSOPHY AND SCIENCE. Three credit hours. Open to seniors, philosophy and science majors, who are superior students and are approved prior to registration by the professor. The seminar is limited to twenty students, is offered in fall semester, and fulfills philosophy elective requirement.

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 PL 198a.

199a. SENIOR COMPREHENSIVE REVIEW. One credit hour. Required of all seniors majoring in philosophy.

199b. SENIOR COMPREHENSIVE REVIEW. One credit hour. 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 PL 151 or 161, 206, 210, 222, 265, 270, 274 or their equivalents.
3. Comprehensive examination on course work and thesis.

Graduate Courses

206. THOMISTIC THEORY OF KNOWLEDGE. Three credit hours.

210. THOMISTIC METAPHYSICS. Three credit hours.

222. PHILOSOPHICAL PROBLEMS IN MODERN SCIENCE. Three credit hours.

241. CONTEMPORARY ETHICAL PROBLEMS. Three credit hours.

245. PHILOSOPHY OF AESTHETICS. Three credit hours.

252. PLATO: MAJOR DIALOGUES. Three credit hours.
Philosophy

254. ARISTOTLE. Three credit hours.
261. AUGUSTINE OF HIPPO. Three credit hours.
263. PHILOSOPHY OF SAINT BONAVENTURE. Three credit hours.
264. THOMAS AQUINAS: INTRODUCTION TO THE TEXT. Three credit hours.
265. THOMAS AQUINAS: ON BEING AND ESSENCE. Three credit hours.
276. EXISTENTIALIST AND LINGUISTIC ANALYSIS. Three credit hours.
287. AMERICAN PRAGMATISTS. Three credit hours.
298. SPECIAL STUDY. Credit to be arranged.
299. MASTER'S THESIS. Six credit hours.

Physics

Staff: MR. HART, chairman; FR. BRADLEY, MR. MARCACCIO, DR. MILLER, MR. TOEPKER, DR. VOLLMAYER, DR. WERNER.

Assisted by: MR. FISCHER, Director of Electronics and Machine Shops; DR. BAHR, DR. WELLS.

UNDERGRADUATE PHYSICS

Lower Division Courses

3. COLLEGE PHYSICS. Four credit hours each semester. This is a terminal course covering mechanics, heat, sound, electricity, magnetism, and optics. Three lectures and one laboratory session per week. Prerequisite: Algebra and Trigonometry.

7. ELECTRONICS FOR SCIENTISTS. Two credit hours lecture, one credit hour laboratory, each semester. This course is designed to aid the student in the use of modern electronic instrumentation. It includes DC and AC circuits, theory of transistor circuits, electronic instrumentation, and electrical measurements. General Physics or equivalent is a prerequisite.

9. UNIVERSITY PHYSICS I, II. Three or four credit hours each semester. This is a general physics course for science majors: it covers mechanics, heat, sound, electromagnetism, optics, and modern physics. Three lecture sessions and one laboratory session per week. Calculus should be taken concurrently in the first semester.

11. ADVANCED TOPICS IN GENERAL PHYSICS. Two credit hours of lecture and two of laboratory. Direct-current circuit problems; transient and steady state solutions for some RLC circuits; series and parallel resonance; Kirchhoff's Laws in complex form; alternating current networks. Complex-number vector methods and matrices are used.

12. ELECTRONICS. Two credit hours of lecture and two of laboratory. Basic electronic circuits including power supplies, amplifiers, oscillators, and switching circuits using both vacuum tubes and transistors. Impedance relations and electronic filters. Theory of electronic measurements.

Upper Division Courses

101. ADVANCED LABORATORY I, II. Four credit hours of laboratory for the year. This laboratory is designed to introduce the student to the more advanced counterparts of the University Physics laboratory. Ellipsoids of inertia, Kater's pendulum, gyroscopic precession and nutation, forced harmonic oscillations, black body radiation, Fresnel diffraction, Michelson's interferometer, acoustic impedance, electrical measurements, electronics, electricity, and magnetism, atomic and nuclear experiments.

103. ADVANCED LABORATORY III, IV. Two credit hours of laboratory for the year. Stress is on atomic, nuclear physics and optical pumping.

111. THEORETICAL MECHANICS I. Three credit hours. Calculus of vectors, conservative forces, nonlinear oscillator, forced oscillations with damping, electrical and acoustical analogues, planetary motion and the general laws of alpha-particle scattering, conservation of linear and angular momentum, coupled oscillators, and normal coordinates. Prerequisite: Mt 52.

112. THEORETICAL MECHANICS II. Three credit hours. Rigid body motion, moments of inertia, principal axes, Euler's equations, rotation about fixed axis, energy equation, Lagrange's equations, Hamilton's equations, principle of least action. Prerequisite: Mt 106 or Mt 108.

121. THERMODYNAMICS. Three credit hours. Thermodynamic variables and processes, internal energy of a system, first and second laws of thermodynamics, Carnot cycle, entropy
and irreversibility, Gibb’s functions and Maxwell’s relations, Clausius-Clapeyron and Gibb-Helmholtz equations, van der Waals gas, phase rule, Boltzmann’s distribution law, Maxwell’s distribution law, Bose-Einstein statistics, Fermi-Dirac statistics. Prerequisite: Mt 106 or Mt 108.

131. ACOUSTICS. Three credit hours. Forced oscillations with damping, acoustical-electrical-mechanical analogies, wave motion in three dimensions, interference patterns, acoustic impedance, diffraction effects. Prerequisite: Mt 106 or Mt 108.

141. ELECTROMAGNETISM. Three credit hours. Coulomb’s law, Ampere’s law, Faraday’s law, Maxwell’s electromagnetic equations in free space and material media. Course is given in vector notation. Prerequisite: Ph 111.

142. ELECTROMAGNETIC THEORY OF LIGHT. Three credit hours. Electromagnetic wave theory is used to derive the laws of optics; reflection, refraction, diffraction, Fresnel integrals, and theory of dispersion. Prerequisites: Mt 106, 108, Ph 141.

143. ELECTROMAGNETIC THEORY OF LIGHT II. Three credit hours. A continuation of Ph 142.

153. ELECTRONICS LABORATORY. Two credit hours.

162. EVOLUTION OF MODERN PHYSICS. Three credit hours. This course is designed to bring the principles of modern physics within the grasp of people whose profession is other than that of a research physicist. The course should be of particular value to people in education who want a concentration in physics. Topics include electromagnetic theory, relativity, quantum mechanics, and atomic and nuclear physics as well as the relations between these topics and modern philosophy. Since the course is as rigorous as ordinary language will allow, even the physics student can expect to benefit by obtaining a more profound respect for the conciseness of mathematical equations. Prerequisite: Equivalent of general physics.

164. MODERN PHYSICS I, II. Three credit hours each semester. The first semester topics include relativistic mechanics from the special theory of relativity, the fundamental ideas involved in the general theory of relativity including the use of tensor calculus, and an introduction to quantum mechanics. The second semester is a continuation of quantum mechanics. Prerequisite: Theoretical Mechanics Ph 111.
GRADUATE DIVISION

Principal Courses. Required of all students.

210. CLASSICAL ANALYTICAL MECHANICS. Three credit hours. Mechanical principles and mathematical methods useful in relativity quantum mechanics including the variational principle, rigid body motion, elasticity, Hamilton's equations and canonical transformations, Hamilton-Jacobi theory, and an introduction to relativistic mechanics.

211. RELATIVISTIC ELECTRODYNAMICS. Three credit hours each semester. Relativistic Electrodynamics as an example of a theory. The nature of a theory, general principles underlying both Newtonian mechanics and special theory of relativity. The assumption of superposition, the full theory of Electrodynamics, and the Maxwell-Lorentz equations. Difficulties resulting from the fact of existence of electrons.

230. QUANTUM MECHANICS. Three credit hours each semester. Some fundamental experiments of atomic physics. De Broglie waves and properties of wave packets. Uncertainty relation. Schroedinger's equation applied to the hydrogen atom and the harmonic oscillator. Quantum Mechanical operators in Hilbert space, matrix formulation of Q.M., perturbation theory, theory of measuring process, angular momentum and spin, Dirac's electron.

Other Courses:

200. SEMINAR: STUDENT PRESENTATIONS. Credit assigned.

201. GRADUATE EXPERIMENTAL PHYSICS. One to four credit hours.

211. CLASSICAL ANALYTICAL MECHANICS II. Three credit hours. Second semester of Ph 210. Offered occasionally.

240. SEMINAR: QUANTUM BEHAVIOR OF SYSTEMS. Three credit hours. Classical concepts demanded by the quantum theory as a rational generalization of classical physics. A contemporary approach to the quantum, based upon recent experiments such as the ESAB effect, optical pumping, and superconductivity. Subtleties of quantum wholeness, such as the Einstein-Podolsky-Rosen effect, explained through quantum behavior in the configuration space of a system. Quantum implications for the theory of knowledge, with particular emphasis on Bohr's account of his discussions with Einstein.

242. SEMINAR: PHYSICAL INTERACTION. Three credit hours. A sequel to Quantum Behavior of Systems. A further exploration into the extensive emendations of Newtonian mechanics involved in relativistic electrodynamics and quantum mechanics. The central role of interaction in questions of measurement, separability, wholeness, and extension of behavior. Reports and discussions of current investigation by the instructor and some of the students into nuclear, electromagnetic, Fermi, and gravitational interactions.

244. SEMINAR: CONSTANTS OF NATURE. Three credit hours.

246. SEMINAR: OUTSTANDING PROBLEMS IN PHYSICS. Three credit hours.

248. SEMINAR: THEORY OF ACTIVE OBSERVATION. Three credit hours.

280. SPECIAL TOPICS: (TOPIC TO BE SPECIFIED). Three credit hours. From time to time special topics will be offered as Ph 280. These include Statistical Mechanics, Electronics, Nuclear Physics, Solid State Theory, Fluid Dynamics, Plasma Physics, Gravitation and General Relativity, and Applied Mathematical Physics.

282. LAGRANGIAN DYNAMICS. Three credit hours each semester. The course includes (a) a treatment of necessary background material, (b) derivation of the general form of Lagrange's equations, (c) discussion of generalized forces for any and all types of coordinates and applied forces, (d) consideration of conservative and certain general forms of dissipative forces, (e) general treatment of moments and products of inertia. Examples and problems introduced throughout.

285. INDEPENDENT STUDY. Credit by arrangement. A limited number of advanced students may undertake interdisciplinary graduate study and research. The breadth of this work may call for the student to attend, from time to time and with faculty permission, classes given in various departments. This course provides explicitly for such attendance, and in regularly scheduled conferences with a faculty advisor the student reports in detail on these classes.

297. SPECIAL READINGS: AREA TO BE SPECIFIED. One to three credit hours.

298. RESEARCH IN: AREA TO BE SPECIFIED. One to three credit hours.

299. MASTER'S THESIS. Six credit hours.

Supporting Courses:

The student, with his advisor's specific approval, may elect supporting courses in other departments such as Mathematics, Chemistry, and Biology.
Psychology (Ps)

Staff: Dr. Bieliuskas, chairman; Dr. Cebus, Dr. Clarke, Dr. Feuss, Fr. Foley, Dr. Kaplan, Dr. Kronenberger, Mr. Lagrange, Dr. Quatman, Dr. Schmidt, Dr. Stevenson, Fr. Trainor, Dr. Truscott.

Assisted by: Dr. Berlin, Miss Braun, Dr. Cohen, Mr. Farrar, Dr. Frankel, Dr. Lippert, Mr. Miller, Sr. John Bosco Ryan, Mr. Setta.

Graduate Assistants: Mr. Bayer, Mr. Brosnan, Mr. Conroy, Mr. Dinerman, Mr. Gennaco, Miss Maloney, Mr. Voegle, Bro. Welling.

UNDERGRADUATE DIVISION

Lower Division Courses

31. General Psychology. Three credit hours. A study of facts and principles concerning human behavior. This course attempts to acquaint the student with the understanding of basic psychological processes such as sensation, perception, motivation, learning, psychological measurements, and personality development. Offered to sophomores majoring in various departments including the Department of Psychology.

32. Advanced General Psychology. Three credit hours. A course specially designed for psychology majors, minors, and those interested in taking more advanced courses in psychology. Special attention given to the scientific methodology in psychology and its application to experimental studies in the areas of perception, motivation, thinking, memory, learning, and individual differences. Prerequisite: Ps 31.

41. Educational Psychology. Three credit hours. Psychological principles applied to learning and teaching. Prerequisite: Ps 31. (Ed 41)

Upper Division Courses

101. Experimental Psychology I. Three credit hours. Introduction to experimental methods in psychology; key statistical techniques, journal reading, and report writing. Experiments deal with visual processes, learning, transfer, problem solving, association, and attention. One hour lecture and four hours' laboratory per week. Prerequisites: Ps 31, Ps 32, and the instructor's approval.

102. Experimental Psychology II. Three credit hours. Directed experiments on animal and human subjects, emphasizing planning, instrumentation, controls, and logical analysis of results. One hour lecture period and four hours' laboratory periods per week. Prerequisite: Ps 101 and the instructor's approval.

103. Developmental Psychology. Three credit hours. A study of those factors which significantly influence the life span of man from childhood to old age, with application to the stages of physiological maturation, developmental tasks, social learning, and personality integration.

104. Experimental Psychology. Five credit hours. Similar to Ps 101. Summers only.

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.

118. Introduction to the Emotionally Disturbed Child. Two credit hours. (Ed 118)

119. Guiding the Emotionally Disturbed Child. Two credit hours. (Ed 119)

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)

128. 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 psychologist. (IR 128)

131. Psychological and Achievement Tests. Three credit hours. A survey of commonly used group tests; testing procedures, and rationales underlying these tests; tests of intelligence, aptitude, achievement, interest, and personality critically examined; procedures described for selecting and evaluating specific group tests in these areas. Two lectures and two laboratory periods per week. (Ed 131) (Mg 131)
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 or three credit hours. Dynamics of a disturbed personality; symptoms, causes, and treatment of psychoneuroses, psychoses, and deviant personalities. Theoretical descriptions are illustrated through visual aids and field trips. (Ed 136)

138. **Statistical Techniques.** Two or three credit hours. A study of basic statistics used in psychology and education, including sampling techniques, measures of central tendency, variability, and simple correlation. Two lectures and two laboratory periods per week. (Ed 138)

142. **Mental Hygiene.** Two credit hours. A study of the progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (Ed 142)

151. **History and Systems of Psychology.** Two or three 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)


155. **Dynamic Psychology.** Two credit hours. Critical appreciation of personality concepts and methodology of various psychotherapeutic schools. While special attention is given to Freud's contribution, other schools considered are Adlerian, Jungian, Rankian, Existential Therapy, and Client-Centered Therapy. (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. A study of the individual's personality, attitudes, and behavior in multiindividual situations. (Ed 158)

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. (Ed 170)

177. **Theories of Personality I.** Two credit hours. Meaning and application of different concepts in description of personality dynamics. Emotions, their expressions, their mutual interrelationships and their meaning. Sources of personality development. Current personality theories and their evaluation. (Ed 177)

178. **Theories of Personality II.** Two credit hours. A continuation of Ps 177. (Ed 178)

180. **Introduction to Projective Techniques.** Two or three credit hours. Theory and rationale of projective techniques. Introduction to the Rorschach technique, Thematic Apperception Test, Szondi Test, visual-motor tests, drawing techniques, and word association tests. Tests are described, and clinical illustrations are presented with case histories. (Ed 180)

186. **Psychology Practicum.** Three credit hours. Practical experience in administering of group tests; scoring and interpretation. Prerequisite: Ps 181 and the instructor's approval.

195. **Readings in Psychology.** Either semester: one, two, or three credit hours. The student undertakes a library research project which he performs with the assistance and under supervision of one staff member. He is to write a paper and pass an oral examination at the end of the semester. For seniors and graduate students only.

199. **Senior Comprehensive Review.** Two credit hours. Required of all majors in their senior year. An original research project may be substituted for this requirement upon approval of the Chairman of the Department. Prerequisite: Senior standing and instructor's approval.

**Graduate Division**

The Department of Psychology of the Graduate School offers a program leading toward the Master of Arts in Psychology. This program aims to prepare students for continuing their graduate studies at the doctoral level and for employment in clinical, counseling, and industrial psychology. To insure a broad advanced knowledge
Psychology

of psychology, all students must take the core curriculum. They are then allowed to select their area of specialization.

Core Curriculum Courses

177. THEORIES OF PERSONALITY I AND II. Two credit hours. See course description on preceding page.

178. CONTEMPORARY THEORIES IN PSYCHOLOGY. Three credit hours. An evaluative review of the concepts which are basic to current theory, research, and practice in psychology and its major divisions.

201. ADVANCED EXPERIMENTAL PSYCHOLOGY. Three credit hours. Intensive survey of experimental procedures and findings; utilization of laboratory equipment; introduction to individual laboratory research.

214. ADVANCED STATISTICS. Three credit hours. Review of elementary correlation. Serial correlation and other correlation methods. Use of multiple regression and discriminant analysis with psychological data. Simple analysis of variance. Basic statistical considerations in dealing with small samples. Prerequisite: Ps 138 or equivalent.

249. SEMINAR: PHILOSOPHICAL ISSUES IN PSYCHOLOGY. Three credit hours. A study of the historical development of basic psychological concepts from Aristotle to the present. Interrelations between science, psychology, and philosophy.

283. PROFESSIONAL PROBLEMS IN PSYCHOLOGY. One credit hour. Basic principles of ethics and their application to psychological theory, research, and practice. Case studies.

Open to Graduate Students Only

203. EDUCATIONAL PSYCHOLOGY. Three credit hours. (Ed 203)

204. DEVELOPMENTAL PSYCHOLOGY. Three credit hours. (Ed 204)

209. PSYCHOPATHOLOGY. Two credit hours. (Ed 209)

210. LEARNING AND MOTIVATION. Two or three credit hours. (Ed 210)

220. CLINICAL STUDIES: THE EMOTIONALLY DISTURBED CHILD. Two credit hours. (Ed 220)

232. VOCATIONAL AND EDUCATIONAL GUIDANCE. Two credit hours. (Ed 232)

203. COUNSELING PRINCIPLES AND TECHNIQUES. Two credit hours. (Ed 233)

235. OCCUPATIONAL INFORMATION AND JOB ANALYSIS. Two credit hours. (Ed 235)

237. INDIVIDUAL TESTS OF INTELLIGENCE. Two to four credit hours. (Ed 237)

241. DESIGN OF EXPERIMENTS. Three credit hours.

242. MARKETING RESEARCH. Three credit hours. (BA 242)

245-6. PROJECTIVE TECHNIQUES I AND II. Six credit hours.

251. SEMINAR: SPECIAL TOPICS. Three credit hours.

252. MONTESSORI EDUCATION: PSYCHOLOGICAL BASES. Three credit hours. (Ed 252)

253. MONTESSORI EDUCATION: HISTORICAL, THEORETICAL AND DEVELOPMENTAL ASPECTS. Three credit hours. (Ed 253)

258. COMMUNICATION. Three credit hours.

261. PERSONNEL SELECTION AND EVALUATION TECHNIQUES. Three credit hours.

265. COUNSELLING AND PSYCOHERAPY. Three credit hours.

280. REMEDIAL READING. Two or three credit hours. (Ed 280)

281. PRACTICUM IN REMEDIAL READING. Two to four credit hours. (Ed 281)

282. PRACTICUM. Three to six credit hours.

284. ROLE AND FUNCTION OF SCHOOL PSYCHOLOGIST. Two credit hours.

285-8. WORKSHOPS AND INSTITUTES. Titles to be announced. One, two, or three credit hours.

297-8. RESEARCH IN PSYCHOLOGY. Titles to be specified. Three credit hours.

290. INTERNSHIP IN SCHOOL PSYCHOLOGY. Three credit hours each semester.

299. MASTER'S THESIS. Six credit hours.

Courses Open to Graduate and Advanced Undergraduate Students

(For course descriptions see preceding pages.)

121. BIOLOGICAL BASIS OF ANIMAL BEHAVIOR. Four credit hours. (BI 121)
Sociology (So)

Staff: Fr. Horrigan, Fr. McEvoy, Fr. Prickril, Miss Dwyer, Dr. Iutcovich, Mr. Rundle.

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. (IR 122)

109. **Political Thought**. Three credit hours. (Po 131)

110. **Political Thought**. Three credit hours. (Po 132)

111. **Social Casework**. Two or three credit hours. (Ed 111)

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. **Personality and Social Ethics**. Three credit hours. (Pl 132)

140. **Modern Urban Society**. Three credit hours.

155. **Social Classes in the United States**. Three credit hours.

158. **Social Psychology**. Two credit hours. (Ed 158)

170. **Differential Psychology**. Two credit hours. (Ed 170)

177-8. **Theories of Personality I and II**. Four credit hours, two each semester. (Ed 177-8)

Theology (Th)


Assisted by: Rabbi Goldman, Mr. Iutcovich, Fr. Petrovich.
Theology

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.

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.

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 Messias, 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

105. JUDAIC THOUGHT IN SCRIPTURE AND RABBINICAL SOURCES. Three credit hours.

110. THE THEOLOGY AND HISTORY OF THE ECUMENICAL COUNCILS. Three credit hours.

112. THEOLOGY IN THE ELEMENTARY SCHOOLS. Three credit hours.

113. THEOLOGY IN SECONDARY SCHOOLS. Three credit hours.

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.

118. INTRODUCTION TO HISTORY OF RELIGIONS. Three credit hours.

125. EASTERN ORTHODOXY, THEN AND NOW. Three credit hours.

130. THE THEOLOGY OF PRESENT-DAY SPIRITUALITY. Three credit hours.

CULT AND SANCTIFICATION. Three credit hours. (Milford College)

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.

165. **THE CONTEMPORARY THEOLOGY OF THE PEOPLE OF GOD.** Three credit hours. The Church as mystery; the pilgrim church; the church's place in salvation history, as studied in these documents:
   - *Mystici Corporis* of Pius XII
   - *Ecclesiam Suam* of Paul VI
   - *De Ecclesia*, Vatican II
   - *Constitution on the Liturgy*, Vatican II
   - *The Church in the Modern World*, Vatican II.

166. **CHRISTIAN EXISTENCE AND RELIGIOUS LIFE.** Three credit hours. (Milford College)

167. **FUNCTION OF THE SACRAMENTS IN THE DEVELOPMENT OF CHRISTIAN PERSON.** Three credit hours.

170. **THE NEW LITURGICAL THEOLOGY.** Three credit hours. A thorough commentary on the *Constitution on the Sacred Liturgy*, of Dec. 4, 1963. Background for reform of the Liturgy. Practical norms to attain reform and promote the Liturgy. Liturgy and doctrine: The Paschal Mystery; the Risen Christ; the History of Salvation; the Liturgy and Mystery; Sacrifice and Sacraments; priesthood of the laity; the juridical power of the bishop in the *Constitution*; con-celebration; Eschatology and the Liturgy; sacred music; sacred arts; Liturgy and Christian Unity.

175. **SACRAMENTAL ENCOUNTER WITH CHRIST.** Three credit hours. An in-depth view of the sacraments as seen through Vatican II.

180. **AN INTRODUCTION TO THE OLD TESTAMENT.** Three credit hours. (Milford College)

185. **AN INTRODUCTION TO THE NEW TESTAMENT.** Three credit hours. (Milford College)

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.

195. **SPECIAL TOPICS IN SACRED SCRIPTURE.** Three credit hours. (Milford College)
Departments—
The College of Business Administration

Accounting (Ac)

Staff: Mr. Wilz, chairman; Mr. Behler, Mr. Maly, Mr. Schweizer, Mr. Smith.
Assisted by: Mr. Finucan, Mr. Gratton, Mr. Schlegel, Mr. L. Selzer, Mr. Schutzman.

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

109. SYSTEMS, METHODS, AND PROCEDURES. The objective of this course is to provide an understanding of the principles of business data processing systems, procedures, and methods. The structure and function of key-driven, punch-card, and electronic data processing machines are studied. Integrated data processing and work simplification concepts are stressed. Prerequisite: Ac 52.

110. 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 punch-card equipment. The phases of planning for and evaluating the feasibility of EDP systems are also covered.

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. A continuation of Ac 153 with emphasis on parent company, subsidiary accounting, foreign exchange, and public accounts. 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. INTERMEDIATE ACCOUNTING. Three credit hours. A broad background of theory coordinated with practical problems. Prerequisite: Ac 52.

161. AUDITING PRINCIPLES. Three credit hours. A comprehensive study of the fundamental principles of auditing. Prerequisite: Ac 155.

162. ADVANCED AUDITING PRINCIPLES. Two or three credit hours. Prerequisite: Ac 161.

163. C.P.A. REVIEW. Three credit hours. An intensive review of theory, auditing, accounting practice, and business law based on recent examinations by the state boards and prepared by the American Institute of Certified Public Accountants. Prerequisite: Courses required for a major in accounting.

164. C.P.A. REVIEW. Three credit hours. A continuation of Ac 163.

165. 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.

195. CASES AND PROBLEMS IN ACCOUNTING. Two or three credit hours.

197. TUTORIAL COURSE. Two or three credit hours.
Accounting

For graduate courses in accounting see Business Administration: Graduate Division.

For the M.B.A. degree with a concentration in accounting see Graduate School: the Master of Business Administration.

Business Administration (BA)

The following are general business service courses required of all students in Business Administration. Professors are assigned to these courses by the other departments in the College of Business Administration.

23. BUSINESS CORRESPONDENCE I. Two credit hours.
24. BUSINESS CORRESPONDENCE II. Two credit hours.

190. 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.


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

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.

200A. BASIC ACCOUNTING. Four credit hours. Prerequisite for BA 203, Managerial Accounting.

Business Administration

200B. BASIC ECONOMICS. Four credit hours. Prerequisite for BA 201, Economics of Business.

200C. BASIC HOSPITAL ACCOUNTING. Four credit hours. Prerequisite for BA 203, Hospital Financial Management.

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. QUANTITATIVE BUSINESS METHODS. Three credit hours. Application of quantitative methods to the solution of recurring business problems. Basic mathematical models: break-even, forecasting, linear programming, probability, scheduling, transportation, and waiting line.

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.

209. 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.

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.

212. BUSINESS FORECASTING. Three credit hours.

215. GOVERNMENT REGULATION OF BUSINESS. Three credit hours. Analysis of the influence of Mercantilist, Classical, Keynesian, and Socialist theories on public policies towards business competition in modern industrial economies, which employ a cross-cultural and interdisciplinary approach towards the formation of a workable structure of competition as is evidenced by contemporary theories and practices in
the United States, Canada, Great Britain, Europe, and Japan.

218. ECONOMICS OF LABOR. Three credit hours. A study of many determinants of the competitiveness of labor markets; examination of various normative frameworks for judging the propriety of public involvement in labor markets; study of economic determinants of employment levels.

220. EXECUTIVE PRACTICES. Three credit hours. This course is designed to demonstrate the techniques available for handling complicated human relations situations. The discussion centers around psychological (behavioral) and sociological readings and their application to actual case situations.

222. SEMINAR: QUANTITATIVE DECISION-MAKING. Three credit hours.

226. MANAGEMENT PLANNING. Three credit hours. A seminar.

240. MARKETING THEORY AND PRACTICE. Three credit hours. The course is designed to review basic marketing principles and to present new and significant trends and advanced theory. Case studies, discussion, and lectures are employed to develop an understanding of the nature and scope of marketing problems and how to develop workable solutions.

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. A study of the problems of marketing industrial products, including the management of the marketing channels and the pricing of the products. Also covered is the area of selling and distribution of the products.

245. ADVERTISING: THEORY AND PRACTICE. Three credit hours. The role of advertising in the marketing process is examined for ways in which it can be profitably employed. The advertising campaign and its creative and media components are studied to develop an understanding of the decision processes involved. Case studies are utilized. Recommended prerequisite: BA 240.
280. OFFICE MANAGEMENT. Three credit hours. A study of the principles of management and their application to office management, and the duties and responsibilities of the office manager. The student will be given the information needed to comprehend and understand the important office management functions in today's business. The class will include lecture and case discussion.

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

230. HOSPITAL ORGANIZATION AND ADMINISTRATION: PRINCIPLES. Three credit hours.

231. HOSPITAL ORGANIZATION AND ADMINISTRATION: PRINCIPLES. Three credit hours.

232. WORKSHOP: HOSPITAL ORGANIZATION AND ADMINISTRATION. Six credit hours.

233. HOSPITAL FINANCIAL MANAGEMENT. Three credit hours. Prerequisite: BA 200C.

234. HOSPITAL LAW AND HOSPITAL PURCHASING. Three credit hours.

235. WORKSHOP: HOSPITAL BUSINESS MANAGEMENT. Six credit hours.

236. HOSPITAL PERSONNEL ADMINISTRATION. Three credit hours.

237. SEMINAR: HOSPITAL ADMINISTRATION PROBLEMS. Three credit hours.

238. WORKSHOP: PERSONNEL ADMINISTRATION AND HOSPITAL PROBLEMS. Six credit hours.

239. HOSPITAL RESIDENCY. No credit hours.

Economics

The staff and the courses for the B.S.B.A. (Economics) are included with those for the A.B., B.S. (Economics) in the College of Arts and Sciences.

Finance (Fi)
Staff: Dr. Wing, chairman; Mr. Dreese, Mr. Fatora, Mr. Rothwell.
Assisted by: Mr. Gartner, Mr. Muething, Mr. Settemayer.

Upper Division Courses

150. 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. (Ec 150)

153. FINANCIAL INSTITUTIONS. Three credit hours. A survey of all financial institutions including banking and monetary institutions, business finance, financial intermediaries, saving and consumer finance, and public finance and monetary policy.

154. STOCK MARKETS. Three credit hours. A study of securities, the method and manner of their exchange, the functions of securities markets, and the factors promoting changes in securities' prices.

155. INVESTMENTS. Three credit hours. Survey of the economic bases of investment practice; techniques of security analysis and portfolio management. Prerequisites: Ec 33, 34.

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)

160. BUSINESS FINANCE. Three credit hours. The various types of American enterprises with special emphasis on the corporation—its organization, management, financing and budgeting.

161. PROBLEMS OF FINANCIAL MANAGEMENT. Three credit hours.
162. INSURANCE. Three credit hours. A combined study of the principles and practices of life and property insurance designed to bring together principles and practices of insurance and the ways in which it may be employed in the interest of personal, family, and business welfare.

163. REAL ESTATE PRINCIPLES AND FINANCE. Three credit hours.

166. 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.

168. SEMINAR IN FINANCE. Three credit hours.

169. RESEARCH IN FINANCE. Three credit hours. A directed study in a selected field of finance by advanced majors in finance. Projects must have the approval of the chairman of the Department of Finance.

195. CASES AND PROBLEMS IN FINANCE. Three credit hours.

197. TUTORIAL COURSE. Two or three credit hours.

Approved Electives: Ec 135, 148; Ac 151, 152, 157, 158.

Management and Industrial Relations

Staff: Dr. Hayes, chairman; Mr. Arlinghaus, Dr. Bryan, Dr. Bryski, Dr. Donnelly, Mr. Klekamp, Dr. Thielsaup.

Assisted by: Mr. Centner, Mr. Crotty, Mr. Grosse, Mr. Holohan, Mr. Klee, Dr. McDavid, Dr. Quatman, Dr. Schultz, Mr. Shaw.

Management (Mg)

Lower Division Course

90. PRINCIPLES OF MANAGEMENT. Three credit hours. This course is designed to prepare students in the fundamental process which is applicable to all forms of business organization. Emphasis is placed on those organizational and managerial concepts considered essential for business decision making. Prerequisite: Ec 33, 34.

Upper Division Courses

102. WAGE AND SALARY ADMINISTRATION. Three credit hours. This course describes job-evaluation principles and analyses the major methods employed for the administration of wages and salaries. Attention is given to job descriptions, financial incentive plans, wage and salary studies, and the important problems of wage and salary administration. Prerequisite: Mg 90.

103. PRODUCTION MANAGEMENT. Three credit hours. Production management is the process by which resources are allocated within the firm for the creation of goods and services. This course will be concerned with the decision making related to such resource allocation and will provide students with analytical tools to optimize the results of factor allocation. Prerequisite: Mg 90.

104. MANAGERIAL METHODS ANALYSIS. Three credit hours. To provide the student with some important managerial techniques available for optimum effectiveness from the methods and procedures used in the business organization. Areas to be considered are process charting, work and time measurement, performance rating, work sampling, and paperwork procedures. Prerequisite: Mg 90.

105. MANAGERIAL POLICY FORMULATION. Three credit hours. A case course designed to reinforce the student's knowledge of the mechanics of the management process and to acquaint him with the development of business policies through the study and resolution of actual management situations.

106. PRODUCTION CONTROL. Three credit hours. A functional approach to the study of production control is presented with major emphasis on the industrial organization. Cases and problems in the areas of forecasting, invention, control, routing, scheduling, dispatching, and expediting are analyzed. Prerequisite: Mg 90.

107. HUMAN RELATIONS AND MOTIVATION. Three credit hours. To assist the student to develop an understanding of the current concepts of human behavior as applied to the business organization. The disciplines of psychology and sociology are utilized to aid in establishing a basis for the analysis and solution of the human aspects of business decision.

108. RESEARCH IN MANAGEMENT. Three credit hours. Application of research methods to selected managerial problems is attempted. Emphasis is placed on acquiring familiarity with the sources of information of value to the business manager and on the interpretation and presentation of research results. Prerequisite: Mg 90.
Management

109. SYSTEMS, METHODS, AND PROCEDURES. Three credit hours. Cases and problems are utilized. Prerequisite: Mg 90.

110. 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 punch-card equipment. The phases of planning for and evaluating the feasibility of EDP systems are also covered.

111. INTRODUCTION TO QUANTITATIVE ANALYSIS FOR BUSINESS. Three credit hours. Mathematical concepts and techniques applied to business and economics. Topics include linear programming, flow diagrams, maxima and minima of functions, game theory, matrices, and other mathematical concepts relevant to management of economic enterprises.

112. CONTEMPORARY MANAGEMENT PROBLEMS. Three credit hours. An examination of several important problems in the area of administrative management. Specific problems discussed vary from one semester to another. Examples of subjects to be discussed: managerial authority, business ethics, management and society, patterns of management, philosophy of management. Prerequisite: Mg 90.

115. PERSONNEL ADMINISTRATION. Three credit hours. A study of principles and practices in the administration of human relations 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. (IR 115)

130. LABOR ECONOMICS. Three credit hours. A survey of organized labor and labor law; examination of wage determinants and wage theory; examination of causes and remedies of unemployment. (Ec 130)

195. CASES AND PROBLEMS IN MANAGEMENT. Three credit hours. Prerequisite: Mg 90.

197. TUTORIAL COURSE. Two or three credit hours. Content to be determined according to the needs of the student.

Approved Electives: Ac 155; IR 128, 195; and others upon consultation with, and approval of, the Department.

Industrial Relations

Industrial Relations (IR)

Upper Division Courses

115. PERSONNEL ADMINISTRATION. Three credit hours. A study of principles and practices in the administration of human relations 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. (Mg 115)

116. LABOR RELATIONS. Three credit hours. A study of issues and problems involved in union-management relations; an evaluation of collective bargaining as a method for resolving labor disputes in our economic system; case studies of labor disputes. (Ec 116)

119. HISTORY OF THE LABOR MOVEMENT. Three credit hours. A study of workers’ movements in the U.S.; comparison of characteristics of different organizations from the Colonial period to the present. (Ec 119)

120. LABOR LEGISLATION. Three credit hours. A study of the origins and development of labor law in the U.S.; emphasis on laws treating injunctions, worker combinations, labor-management relations, internal union affairs, and working conditions. (Ec 120)

122. CURRENT LABOR PROBLEMS. Three credit hours. A study of various normative and analytical frameworks for examining labor problems; application of these frameworks to several important problems facing the labor movement today. Prerequisite: IR 130. (Ec 122)

123. RESEARCH IN INDUSTRIAL RELATIONS. Three credit hours. A survey of the tools essential for sound research in problems in industrial relations. Specific current problems are studied to insure competence in the use of research tools. Prerequisite: IR 130.

128. INDUSTRIAL PSYCHOLOGY. Two or three credit hours. A review of the principles of sound psychological procedure as applied to personnel in industry and commerce. Prerequisite: Ps 31. (Ps 128)

130. LABOR ECONOMICS. Three credit hours. A survey of organized labor and labor law; examination of wage determinants and wage theory; examination of causes and remedies of unemployment. (Ec 130, Mg 130)
Industrial Relations

195. **CASES AND PROBLEMS IN PERSONNEL RELATIONS.** Three credit hours.

197. **TUTORIAL COURSE.** Two or three credit hours. Content to be determined according to the needs of the student.

Approved Electives: Upon consultation with, and approval of, the Department.

Marketing (Mk)

Staff: DR. McDAVID, chairman; DR. BRANNEN, MR. GROSSE, MR. JANOVIC.
Assisted by: MR. BUSCH, MR. FOGG, MR. HELMERS, MR. LUDMANN, MR. McMULLIN, MR. RASMUSSEN, MR. ZIMMER.

Lower Division Course

70. **PRINCIPLES OF MARKETING.** Three credit hours. This course contains an overview of the distribution system of the United States economy from both the institutional and functional point of view. A survey and an evaluation of current institutions for the distribution of industrial and consumer goods (wholesaling and retailing) serve as the background for the study of the functions in distribution such as selling (advertising, personal sales, and sales promotion), buying, storage, transportation, and marketing information. Marketing policies are discussed within the existing governmental framework.

Upper Division Courses

171. **MARKETING POLICY.** Three credit hours. This course increases the problem-solving ability of students by requiring their continuous participation in a series of case-studies. These deal with marketing strategy and policy, and problems will be examined, analyzed, and discussed in depth. The effects of the proposed marketing actions will be projected from the viewpoint of management.

172. **MARKETING RESEARCH.** Three credit hours. The place of marketing research as a major management tool will be examined. Applications of marketing research will be discussed: determination of the needs of consumers and of marketing intermediaries; measurement of potential markets; sales forecasting; effectiveness of advertising; use of motivation research. Special attention will be given to test-marketing and the use of panels.


175. **MARKETING MANAGEMENT.** Three credit hours. The need for marketing planning. Changes in the economy over a period of time. The need for new products to replace existing products and for new marketing techniques. The management of personal selling. The co-ordination of advertising with all other aspects of marketing. The development of policy toward changing the items comprising the present product-lines.

177. **INTERNATIONAL MARKETING.** Three credit hours. Conditions peculiar to international distribution of United States goods and services and the effects of this distribution on the national welfare are the bases for the study of international marketing organizations and methods. Technical and financial complexities, such as pricing, foreign collections, foreign exchange, and international banking facilities, are explained.


179. **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.

180. **PHYSICAL DISTRIBUTION ANALYSIS.** Three credit hours. The logistics problems of the firm will be examined as a part of the overall distribution process. Emphasis will be on an evaluation of the physical movement functions of marketing, such as transportation, storage, and optimum allocation of products to various geographical locations. The quantitative approach is stressed and inventory control, product flow, and plant location factors are all analyzed.

181. **RETAILING.** Three credit hours. The purpose of the course is to orient the marketing student in the basics of retailing, from the point of view of the current ferment in retailing.
Marketing

Among the traditional functional areas of study are retailing careers; store location, design, and layout; retail organization; buying and merchandising; customer services; and retail control.

183. ADVERTISING. Two or three credit hours. A study of the institutions peculiar to American advertising is followed by the study of the planning of the advertising campaign, the mechanics of advertising, and media strategy. Stress is also placed on the economic and social effects of advertising along with society’s reactions to advertising.

186. SALES MANAGEMENT. Three credit hours. The role of personal selling in marketing. The selection, training, and assignment of the sales force. Motivation, compensation, and promotion of it. Advantages and disadvantages of the commission plan of compensation. Continuous training of the sales force.

187. SALESMANSHIP. Two or three credit hours. The stress is on the understanding of selling—analyzing the dynamics of a sale. It offers the student an opportunity to understand the function of persuasive leadership as it relates to commerce and to other business relationships. The techniques of persuasive leadership as it applies to the buying of goods and services are studied and practiced.

195. CASES AND PROBLEMS IN MARKETING. Three credit hours.

197. TUTORIAL COURSE. Two or three credit hours.

Approved Elective: Ec 145.
tion program was added. Graduate degrees are currently offered in ten subject fields described below. Numerous concentrations within the ten fields have been added periodically during the twenty years of Graduate School operation.

Academic Calendar

The Graduate School Academic Calendar is integrated with the total University Calendar, which may be found at the front of this Catalogue.

THE MASTER OF ARTS

Xavier University offers programs leading to the degree of Master of Arts in classics, English, history-political science, philosophy (summer only), and psychology.

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. Students in the Department of English may either write the thesis or substitute six additional hours of class work and a substantial research essay.

5. Completion of a final oral, comprehensive examination.

THE MASTER OF ARTS

—CLASSICS
—HISTORY
—PHILOSOPHY

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 ARTS—ENGLISH

The candidate for the Master of Arts degree in English must give substantial proof of his proficiency in literary criticism and textual analysis. He must show an ability to do research and a thorough factual knowledge of the history of English and American literature. The Department of English expects that all candidates for the Master of Arts degree in English will spend considerable time on individual study, literary and textual analysis, and research in addition to the actual course work. The knowledge of an undergraduate English major is presumed to be had by every candidate for the Master of Arts degree in English. In addition, the ability to express oneself with mechanical accuracy and precision of idiom is demanded.

Students who envision the Master of Arts in English as a terminal degree are advised to elect a program consisting of thirty credit hours of course work and the writing of an extended research paper done in conjunction with a seminar. At least half of the thirty hours must be in courses numbered 200 or higher, and at least two of the courses must be seminars. Students electing this program must pass an examination in a modern foreign language by the end of their second semester in graduate work. A candidate whose seminar research paper is concerned with an aspect of medieval literature may, if he chooses, substitute Latin. Students must also pass a
written comprehensive examination in English and American literature, which should ordinarily not be taken until all class work has been completed. This examination is administered in the spring and in mid-summer, and is taken in two sessions. A copy of the general provisions for the examination may be obtained from the office of the Chairman, Department of English.

Those preparing for further studies in English, especially toward the doctorate, are advised to elect a program consisting of twenty-four hours of course work and the writing of a thesis. At least one-half of the twenty-four hours must be in courses numbered 200 or higher, and at least two of the courses must be seminars. The subject of the thesis must be approved by the department's committee for the graduate program. The thesis, for which six hours of credit are awarded, must be written under the guidance of a member of the faculty and must demonstrate the student's ability to do scholarly research of high quality. This thesis must be read and approved by the director of the thesis and two other readers from the faculty. In addition, the candidate must pass the written comprehensive examination in English and American literature mentioned above and an examination in a modern foreign language by the end of his second semester of graduate course work. If his thesis concerns the medieval period of English literature, he may substitute Latin for the modern foreign language. The student in this program must pass an oral examination on his dissertation and his course work.

Admission Requirements

1. Bachelor's degree from an accredited college or university.
2. A 2.5 overall undergraduate average and a 3.0 average in all English courses on the undergraduate level. This average is computed by assigning quality credits of 4 for each credit hour of A.
3. A minimum of thirty-six undergraduate credit hours in English which should include the survey of English literature from the Old English Period to the Twentieth Century; the survey of American Literature; at least one course in Shakespeare. Courses in aesthetics and literary criticism and in history of the English language are highly recommended. In case the applicant does not meet these requirements, he may be admitted as a special student until he makes up the necessary hours.
4. Recommendations from members of the Department of English in the college or university where he did his undergraduate work. One of these recommendations should come from the chairman of the Department of English of the college or university where the undergraduate work was completed.

Procedure of Admission

Any student applying for admission to the program leading to the Master of Arts in English must complete the following procedures before registration:

1. Submit to the Graduate School the completed application form for admission to the Graduate School.
2. Submit to the Chairman, Department of English, the completed application form for admission to the graduate program in English.
3. Arrange for transcript of previous college work to be sent to the Graduate School.
4. Submit to the Graduate School and to the Chairman, Department of English, his score on the Graduate Record Examination in Literature.
5. Arrange with the Chairman, Department of English, for a personal interview.

Part-time students may be admitted for their first semester of work prior to their personal interview. All admission procedures, however, must have been completed before the second registration.

Program

All candidates for the degree of Master of Arts in English are urged to include a course in the history of the English language. The courses selected on the 100 level (upper-division undergraduate courses) ought to complement their undergraduate work. The courses and seminars selected on the 200 level should build upon the undergraduate work in English. Since backgrounds on the undergraduate level may vary, each applicant should work out a program with the Chairman, Department of English, before beginning his graduate work.

THE MASTER OF ARTS—PSYCHOLOGY

The degree of Master of Arts in psychology is designed to prepare students for continuing their graduate studies to the doctorate level and to prepare students for employment in the areas of clinical, counseling, and industrial psychology.

Accordingly this degree is awarded to the candidate who has demonstrated a capacity for qualitative performance by completing satisfactorily a graduate program designed to give him these characteristics:

1. Broad advanced knowledge of the general field of psychology.
2. Either further breadth of knowledge (for those planning to continue immediately in a doctoral program) or specific
knowledge of one major area of psychology in which he plans professional activity.
3. Proven ability to do research in psychology.

Program
To insure comprehensiveness, all candidates must include in their program each of the following courses designed in their whole to provide integrated coverage of the graduate field of psychology. For description of courses see listings under the Department of Psychology.
Ps 177, Theories of Personality I and II. Four credit hours, 178, two each semester.
Ps 201. Contemporary Theory in Psychology. Three credit hours.
Ps 202. Advanced Experimental Psychology. Three credit hours.
Ps 214. Advanced Statistics. Three credit hours.
Ps 249. Seminar: Philosophical Issues in Psychology. Three credit hours.
Ps 283. Professional Problems in Psychology. One credit hour.

To insure the attainment of his particular objective in graduate study in psychology, the student must include a concentration in one of the following areas of concentration:

General-Experimental Psychology
A minimum of seven credit hours selected from the following courses: Biological Basis of Animal Behavior, Learning and Motivation, Design of Experiments, Research Problems in Psychology, Communication, Social Psychology, Differential Psychology, Psychological and Achievement Tests.

Clinical Psychology
A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Psychopathology, Dynamic Psychology, Individual Tests of Intelligence, Counselling Principles and Techniques, Projective Techniques I and II, Research Problems in Psychology, Communication, Counselling and Psychotherapy, Remedial Reading. Practicum in Clinical Psychology is required.

Counselling Psychology
A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Developmental Psychology, Dynamic Psychology, Vocational and Educational Guidance, Psychological and Achievement Tests, Counselling Principles and Techniques, Individual Tests of Intelligence, Communication, Remedial Reading. Practicum in Counselling is required.

Industrial Psychology
A minimum of thirteen credit hours selected from the following courses: Occupational Information and Job Analysis, Marketing Research, Personnel Selection and Evaluation Techniques, Communication, Design of Experiments, Dynamic Psychology, Learning and Motivation. Practicum in Industrial Psychology is required.

As a climax to his program, each student must register for Ps 299, Master's thesis, six credit hours. He will prepare an acceptable thesis, which will be defended in his final oral examination.

Quantitative Requirements
Depending on the student's concentration, a minimum of thirty or thirty-six graduate hours is required for the degree of Master of Arts in psychology. These shall ordinarily be distributed as follows:
1. Seventeen credit hours in the core courses.
2. Seven or thirteen hours in the area of concentration.
3. Six hours awarded for Master's thesis.

Qualitative Requirements
The degree of Master of Arts in psychology will be awarded only to candidates who have demonstrated a reading knowledge of a foreign language and, in a final oral examination, have both successfully defended their thesis and successfully demonstrated their knowledge of the general field of psychology.

Admission Requirements
1. Bachelor's degree from an accredited college or university.
2. A 2.5 overall undergraduate average and a 3.0 average in all psychology courses. This average is computed by assigning quality credits of 4 for each credit hour of A.
4. A minimum of eighteen undergraduate credit hours in psychology which should include experimental psychology (with laboratory), introductory statistics, psychology of personality, and/or abnormal psychology. Also courses in biological science and college mathematics are recommended as a preparation for graduate studies. In case the applicant does not meet these requirements, he may be admitted as a special student until he makes up the necessary hours.
Procedures of Admission

Full-time students must complete the following procedures in advance of registration:

1. Submit to the Graduate Office the completed application form for admission to the Graduate School and special application form for admission to the department of psychology.
2. Submit transcript of previous college work.
3. Submit to the Graduate Office report of M.A.T. score or arrange with the Department of Psychology for examination.
4. Arrange with the Psychology Department for a personal interview. (It may be possible that the interviewing of students from considerable distance be delegated to a local psychologist by special arrangement.)
5. The Dean of the Graduate School will notify the applicant of official acceptance.

Part-time students may be admitted as special students for their first semester of work prior to M.A.T. results and personal interview. All admission procedures, however, must have been completed prior to their second registration.

THE MASTER OF SCIENCE—CHEMISTRY

This degree in chemistry is designed to prepare students for continuing their graduate studies to the doctoral level, or for employment in the more specialized areas of chemical industry. Courses may also be taken for self-improvement on a non-degree basis by those so inclined.

The program is constructed to offer the student:

1. A broad advanced knowledge of the general field of chemistry;
2. Further training in the techniques of original chemical investigation.

Prerequisites

In all cases, the prerequisite for enrollment in the Graduate School is the possession of the baccalaureate degree. For entrance into the graduate program in chemistry, the applicant should have had undergraduate training in chemistry substantially equivalent to a Xavier undergraduate major. This normally consists of general chemistry (nine credit hours, and includes an introduction to qualitative inorganic analysis), quantitative analysis (four credit hours), organic chemistry (eight credit hours), chemical literature (one credit hour), physical chemistry (seven credit hours), qualitative organic analysis (three credit hours), intermediate organic (two credit hours), instrumental analysis (four credit hours), intermediate inorganic (three credit hours), and senior thesis (two credit hours).

Undergraduate prerequisites also include mathematics through calculus and a year of physics (eight credit hours). A student seriously deficient in these prerequisites will be required to make up the deficiency prior to, or concurrent with, his graduate studies.

Program

To insure comprehensiveness, all candidates must include in their program each of the following four basic courses designed to provide general coverage of the broad field of chemistry. For descriptions of courses see listings under the Department of Chemistry.

Ch 207, Advanced Organic Chemistry. Four credit hours.

Ch 215, Advanced Analytical Chemistry. Four credit hours.

Ch 225, Advanced Physical Chemistry. Four credit hours.

Ch 253, Advanced Inorganic Chemistry. Four credit hours.

In addition to the above basic courses, the graduate student selects from a variety of minor courses, including some in the 100 level, enough additional offerings to total at least eight credit hours. In his selection, the student is guided by the department chairman, or, after selection of his research topic, by his research adviser. Among those courses that are periodically offered are the following:

Ch 160. Biochemistry. Three credit hours. An introductory course.

Ch 212. Heterocyclic Organic Chemistry. Two credit hours.

Ch 230. Physical-Chemical Measurements. Two credit hours.

Ch 235. Physical Organic Chemistry. Two credit hours.

Ch 245. The Chemical Bond. Two credit hours.

Ch 248. Chemical Spectroscopy. Two credit hours.

Ch 260. Advanced Biochemistry. Two credit hours.

Ch 280. Special Topics. Two credit hours each semester.
Quantitative Requirements

A minimum of thirty hours is required for the degree of Master of Science in chemistry. These shall ordinarily be distributed as follows:

1. Sixteen credit hours in the four basic graduate chemistry courses: Advanced Analytical, Advanced Organic, Advanced Inorganic, and Advanced Physical Chemistry. Each of these carries four hours of credit and is offered on a rotating basis; that is, one is taught each semester in the evening, and one in the first summer session in the day time.

2. At least eight hours of additional classroom credit in chemistry or cognate disciplines, e.g., physics or mathematics. With the permission of the chairman of the department, some 100 level credits may be included.

3. Six hours of credit are obtained through the satisfactory completion of a Master's thesis problem, submission of a written thesis, and the passing of an oral examination on the contents of the thesis.

The satisfactory completion of a written examination in a scientific modern language (chemical German, French, or Russian) is also required.

Registration Procedure

Registration for graduate chemistry students is through the office of the Graduate School. All degree students must present a schedule of courses to be taken, approved either by the chairman of the chemistry department or, in the case of students assigned a thesis advisor, a schedule approved by him.

THE MASTER OF SCIENCE—MATHEMATICS

The program of studies leading to a Master of Science in mathematics is designed so that a full-time graduate student may earn the Master's degree in one year, while an employed part-time graduate student may earn the degree in three years or more by taking one or two courses a semester, depending upon the time available for attendance and study.

Courses are offered in the evenings during the fall and spring semesters and in the mornings in the first session of Summer School.

For those who cannot attend during the academic year, requirements for the degree may be completed during summer sessions only. 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, Complex Analysis, Modern Algebra, and Topology, will be offered in the evenings in a two-year cycle. Mathematical Statistics, Numerical Analysis, and other courses will be offered according to the demand.

Prerequisites

Students electing Plan A must have at least twenty-six undergraduate credit hours in mathematics beyond Calculus. Students electing Plan B must have at least Advanced Calculus and Differential Equations.

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, after completing six graduate credit hours at Xavier, 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 Ma 200, 251, 252, and 253. If the student has not had Ma 144, 145, 156, and 181 or the equivalent, he must include these in his program for the degree. 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 advisor. Any changes in his program must be approved by his advisor.

The requirements for the degree must be fulfilled within five calendar years after one has earned six graduate credit hours at Xavier.

Comprehensive Examination

This examination will be given in the spring semester for students taking courses during the academic year, and in July for students taking courses only in the summer.

One will be questioned in this examination about the four basic fields: Functions of a Real Variable, Complex Analysis, Modern Algebra, and Topology.

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.
Program of Studies

The distinctive nature of the Xavier graduate program in theoretical physics requires that all students elect the following three principal courses (15 graduate credit hours). For descriptions of courses see listings under the Department of Physics.

In addition to these basic courses the graduate student electing Plan A must present nine additional class hours and six credit hours for his master's thesis; those electing Plan B must present fifteen additional class hours and a research paper. These additional hours, upon approval of the student's advisor, will be selected from other courses in physics as offered or from supporting courses offered by other departments such as Mathematics, Chemistry, or Biology.

Requirements

Students may elect to fulfill requirements for the Master of Science in Physics under Plan A or Plan B. Both 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.

One should consult a member of the mathematics staff before registering for courses.

THE MASTER OF SCIENCE—PHYSICS

The graduate program in physics is designed to facilitate creative mathematical exploration by student and teacher together into the way of the natural working of the world. Courses and research are primarily selected to provide an integrated master's program in theoretical physics with principal emphasis on classical analytical mechanics, relativistic electrodynamics, and quantum theory.

Research in the program reflects this emphasis on theory, the experimental equipment of the Physics Department being selected primarily for its high pedagogical utility. Experimental research work may be included in the graduate program in those instances where available equipment permits examination of phenomena having crucial theoretical significance. Topics in theoretical physics currently under investigation include: significance of electromagnetic potentials, extension of quantum behavior, general problems of recurring phenomena, dimensionality as physical variable in the hierarchy of interaction geometrics, collective aspects of metastability, and the role of measurement in the foundations of quantum physics.

Full-time students may complete requirements for the Master of Science degree in one calendar year. Course offerings are scheduled evenings and Saturdays to allow those engaged in teaching, industrial, or defense work to complete degree requirements on a part-time basis, taking one or two courses a semester.

Undergraduate Prerequisites

Prospective graduate students in physics must ordinarily submit evidence of a baccalaureate degree and a satisfactory performance record in undergraduate physics and mathematics courses comparable with those taken by a physics major at Xavier University. Personal interviews, letters of recommendation, scores on the Miller Analogies Test and the Graduate Record Examination Aptitude and Achievement Tests are given due consideration. Upon recommendation of the student's advisor and approval of the Dean of the Graduate School, up to six hours' credit may be granted for graduate work satisfactorily completed at other institutions.

The Chairman of the Physics Department, or an advisor designated by him, should be consulted by each full-time student before registration and by each part-time student before completing his first six hours of work. The student should secure a precise statement concerning any undergraduate deficiencies at that time. His schedule for each subsequent registration must be approved in advance in writing by his advisor.

Requirements

Students may elect to fulfill requirements for the Master of Science in Physics under Plan A or Plan B. Both 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.

Program of Studies

The distinctive nature of the Xavier graduate program in theoretical physics requires that all students elect the following three principal courses (15 graduate credit hours). For descriptions of courses see listings under the Department of Physics.

Ph 210, Classical Analytical Mechanics. Three credit hours.

Ph 220, Relativistic Electrodynamics. Six credit hours.

Ph 230, Quantum Mechanics. Six credit hours.

In addition to these basic courses the graduate student electing Plan A must present nine additional class hours and six credit hours for his master's thesis; those electing Plan B must present fifteen additional class hours and a research paper. These additional hours, upon approval of the student's advisor, will be selected from other courses in physics as offered or from supporting courses offered by other departments such as Mathematics, Chemistry, or Biology.
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. 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 for the purpose of teacher certification must present undergraduate courses in education totaling at least twelve semester hours, except those combining the M.Ed. and teaching requirements.

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. Three credit hours.
Ed 203. EDUCATIONAL PSYCHOLOGY. Three credit hours.
Ed 205. EDUCATIONAL ADMINISTRATION. Three credit hours.
Ed 207. EDUCATION RESEARCH. Two and one credit hours.

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, or 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 School Public Relations, School Law, School Finance, School Buildings, Tests, Guidance, or Counselling (Ed 131, 232, 233).

The Xavier M.Ed. degree with a concentration in administration satisfies Ohio requirements for provisional certificates as elementary principal; as secondary principal if Ed 232: Educational and Vocational Guidance is included; as supervisor if both Ed 211: Elementary Curriculum and Ed 221: Secondary Curriculum are included; and as executive head if both courses in curriculum and two of these three courses are included: Ed 275: School Law, Ed 276: School Finance, and Ed 277: School Buildings.

For the Xavier sixty hour program for superintendent and for permanent administrative certification in Ohio, request requirements from the Graduate School office.

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 131: Psychological and Achievement Testing and Ed 233: Counselling Principles and Techniques. To complete twelve hours of concentration, one may choose from any of the psychology courses (abnormal, dynamic, social, adolescent, etc.), Individual Tests of Intelligence, Remedial Reading, Guidance Laboratory, etc.

For certification in Ohio as a school counsellor, one must fulfill specific requirements. See M.Ed. folder available in the office of the Graduate School.
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.

School Psychologist

Ohio course requirements for the school psychologist program may be met either through an expanded M.Ed. program with concentration in psychology or through the M.A. program in psychology. (See M.A. folder for requirements.) Required courses are Ps 177, 178: Theories of Personality I, II; Ps 131: Psychological and Achievement Tests; Ps 138: Statistical Techniques, or 214: Advanced Statistics; Ps 237: Individual Tests of Intelligence; Ps 245, 246: Projective Techniques I, II; Ps 233: Counselling Principles and Techniques, or 265: Counselling and Psychotherapy; Ps 284: Role and Function of School Psychologist; and approved electives in human development and the psychology of learning to complete 24 graduate hours. A school year's internship (12 hours) is also required.

Students must secure written acceptance to the School Psychology program before completing twelve of the required twenty-four hours of courses.

Educational Research

A new concentration in the M.Ed. program for Administrative Specialists in Educational Research is available. Under a recent federal grant the program will provide fellowships for research specialists. It is expected that additional grants will be available in future years. Details of the program have been cooperatively arranged with the Southwestern Ohio Educational Research Council (SWOERC), the University of Cincinnati, The University of Dayton, and Miami University.

The concentration includes Ed 138: Statistical Techniques, or 214: Advanced Statistics; Ed 209: Data Processing and Computer Techniques; Ed 210, 211: Internship in School Research (12 hours). Fellowships provide $2,400, allow up to $1,500 for dependents, and exempt from tuition and fees.

A special announcement of this program is available.

Physical Education

A concentration in the general area of physical education, health education, and recreation is offered on Saturdays and in the Summer Sessions. Forming this concentration are such three-hour courses as Ed 290: Administration of School Athletics; Ed 291: Leadership in Outdoor Recreation; Ed 292: Administration of Intramural Athletics; Ed 293: Facilities for Physical Education, Health, and Recreation; Ed 294: Physical Education for the Handicapped; Ed 295: Administration of Community Recreation; Ed 296: Administration of Physical Fitness Programs.

The Emotionally Disturbed Child

This concentration must include Ed 118: Introduction to the Emotionally Disturbed Child, Ed 119: Guiding the Emotionally Disturbed Child, Ed 132: Psychology of Delinquency, and Ed 220: Clinical Studies: Emotionally Disturbed Child; and at least two other courses selected from Abnormal Psychology, Mental Hygiene, Social Psychology, Differential Psychology, Psychopathology, and Child or Adolescent Psychology.

Montessori Education

This concentration will include Ed 252: Montessori Education: Psychological Bases; Ed 253: Montessori Education: Historical, Theoretical, and Developmental Aspects; Ed 254: Montessori Methods and Materials: Sensory Level; and Ed 255: Montessori Methods and Materials: Abstract Level. Also available are Ed 257 and 258: Montessori Education: Internship I and II. All are three hour courses. A folder on this concentration is available upon request.

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 (300 series) or the advanced undergraduate-graduate level (100 series).

Music

By special arrangement with the College-Conservatory of Music of the University of Cincinnati, teachers may transfer up to twelve graduate credits as their M.Ed. concentration to Xavier.
Communication Arts

Designed primarily for students who did not concentrate in this field as undergraduates, the concentration in communication arts may include such courses as CA 100: Public Speaking; CA 110: Principles of Radio-TV; CA 112: Radio-TV Script Writing; CA 116: Educational Television; CA 117: Audio Visual Communication; CA 141: Acting Technique; CA 153: Play Production Workshop; Ed 272: School Public Relations; En 101: Advanced Writing, etc.

Biology

Two appropriate biology courses are offered each summer at the 100 course level. Prerequisite: Eight hours of college biology. Enough different biology courses are available over three summers for a student to secure a twelve-hour concentration in this field.

Chemistry for High School Teachers

Students who wish to develop a teaching field in chemistry will find a cycle of courses forming a concentration in a three-summer session sequence: Ch 201: Organic Chemistry for Teachers; Ch 202: Theoretical Chemistry for Teachers; Ch 203: Inorganic Chemistry for Teachers; Ch 204: Chemical Research for Teachers. One year of modern college chemistry, prerequisite to beginning this cycle, is also offered in certain summers. The four required education courses are taken before or after the chemistry, depending on whether the student enters the program in the summer in which Ch 201 is scheduled. Students with strong undergraduate backgrounds in chemistry will find adequate offerings each summer for advanced work in a chemistry concentration.

Modern Languages

Advanced upper division courses in French, German, and Spanish are regularly offered in the Summer Sessions and in the late afternoons during the academic year to allow students to complete a concentration in one of these languages.

Physics

A concentration in physics is especially designed for teachers who have had at least one college year of general physics. Four three-hour courses will be offered in separate cycles on Saturday mornings and in Summer Sessions. Persons needing freshman physics may take this prerequisite in an eight-week summer session prior to entering the cycle.

Theology

Theology is becoming an increasingly popular area of concentration, especially for religious teachers. Each semester and during the summer Xavier offers appropriate courses numbered 100-199 applicable to this concentration.

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 these bases:

1. Undergraduate degree in business administration.
2. Undergraduate non-business degree, plus at least two full years of business experience, and 18 hours of course work in
business subjects including accounting, economics, marketing, and statistics.

Undergraduate deficiencies may be removed by completing BA 200a, Basic Accounting (4 credit hours); BA 200b, Basic Economics (4 credit hours); BA 200c, Basic Marketing (2 credit hours); and BA 200d, Basic Statistics (2 credit hours), or their equivalents, as appropriate. These are special courses open only to graduate students with undergraduate deficiencies.

3. Undergraduate non-business degree with at least 30 hours of business and economics subjects. Deficiencies may be removed by an extended graduate program including BA 200a, b, c, and d (12 graduate hours as shown) and 6 additional hours as advised in individual cases.

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. QUANTITATIVE BUSINESS METHODS. 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, Budgeting Procedures, Controllship, etc.)

Personnel (Collective Bargaining, Problems of Labor, Labor Legislation, Labor Economics, Industrial Psychology, Counseling Principles and Techniques, Psychological and Achievement Tests, Abnormal Psychology, Mental Hygiene, etc.)


Marketing (Market Research, Marketing and Sales Analysis, Retail Merchandising, Advertising, Industrial Marketing.)

Mathematical Economics (Mathematical Statistics I and II, Econometrics, Mathematical Economics, Operations Research I and II.)


Hospital Administration (See separate description below.)

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 core courses and the individual's area of concentration.

THE MASTER OF BUSINESS ADMINISTRATION—HOSPITAL ADMINISTRATION

The degree of Master of Business Administration with a concentration in Hospital Administration is awarded the candidate who has followed a program of studies designed to give him a background in two areas: first, in the principles and techniques used in the administration of businesses in general; and second, in those principles and techniques particularly applicable to the administration of hospitals.

Program

To accomplish the first objective, the candidate must include in his program the following three core courses required of all stu-
dents for the degree of Master of Business Administration, with concentration in Hospital Administration. For course descriptions see Business Administration.

BA 201. ECONOMICS OF BUSINESS. Three credit hours.
BA 204. ADMINISTRATIVE OPERATION. Three credit hours.
BA 209. RESEARCH IN BUSINESS. Three credit hours.

To accomplish the second objective, the candidate must include courses designed to acquaint him specifically with the field of hospital administration. The following courses, constituting two-thirds of his program, are designed as six individual three credit-hour courses during the academic year, but are organized as three six-hour workshops during summer sessions:

Academic Year
BA 230. HOSPITAL ORGANIZATION AND ADMINISTRATION: PRINCIPLES. Three credit hours.

BA 231. HOSPITAL ORGANIZATION AND ADMINISTRATION: CASES. Three credit hours.
In summer these are organized as:
BA 232. WORKSHOP: HOSPITAL ORGANIZATION AND ADMINISTRATION. Six credit hours.

Academic Year
BA 233. HOSPITAL FINANCIAL MANAGEMENT. Three credit hours.
BA 234. HOSPITAL LAW AND HOSPITAL PURCHASING. Three credit hours.
In summer these are organized as:
BA 235. WORKSHOP: HOSPITAL BUSINESS MANAGEMENT. Six credit hours.

Academic Year
BA 236. HOSPITAL PERSONNEL ADMINISTRATION. Three credit hours.
BA 237. SEMINAR: HOSPITAL ADMINISTRATION PROBLEMS. Three credit hours.
In summer these are organized as:
BA 238. WORKSHOP: PERSONNEL ADMINISTRATION AND HOSPITAL PROBLEMS. Six credit hours.

Residency
Before receiving the degree of Master of Business Administration with concentration in Hospital Administration, all students must complete a twelve-month administrative residency in a hospital, unless specifically exempted in writing by the Director of the Hospital Administration program. Exception will be made only when the student evidences equivalent experience prior to enrolling in the degree program. While a student will ordinarily receive compensation from the hospital in which he serves his residency, a residency fee of $200 is charged by the University to cover expenses of University administration of the program. Transcripts of students completing residency will carry a brief certification as to residency.

Quantitative Requirements
A minimum of thirty graduate hours plus the completion of the residency requirement is required for the degree of Master of Business Administration. These shall ordinarily be distributed as follows:
1. Nine credit hours in three general surveys.
2. At least eighteen credit hours in the area of hospital administration, exclusive of prerequisites.
3. 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 three core courses and the individual's area of concentration.

Undergraduate Prerequisites
Students may be admitted to graduate degree work in hospital administration on either of the two following bases:
1. Undergraduate degree which includes at least thirty hours of study in business subjects including six credit hours in accounting, three credit hours in statistics, and six credit hours in economics.
2. Undergraduate degree, at least two full years of hospital or general business experience and course work as follows: accounting, six credit hours; statistics, three credit hours; and economics, six credit hours.

Note—Undergraduate deficiencies may be removed by completing:
BA 200a. BASIC ACCOUNTING. Four credit hours.
BA 200b. BASIC ECONOMICS. Four credit hours.
BA 200d. BASIC STATISTICS. Two credit hours.

The above special graduate courses are not to be counted in the minimum of thirty graduate hours required for the degree.
Eligibility for Enrollment

Applicants for advanced study in the field of Hospital Administration must be well-qualified in terms of educational background, personal traits, motivation, abilities, and interest in the field.

Selection of applicants meeting the above criteria will be based on the potential benefits that the individual will receive from the program as indicated by his background, service to the profession, and academic prerequisites. Personal interviews with the director of the program are required for all applicants.

ADMINISTRATION OF THE 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-political science, mathematics, philosophy (summers only), physics, and psychology. 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.

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 chairman or one appointed by him will be the student's advisor 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 and for the Master of Arts in English and in classics under Plan B.

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 advisor. At least one-half the hours of credit in the major subject

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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

Candidates for graduate degrees shall be required to pass a final comprehensive examination, oral or written. This examination is oral in all programs requiring a thesis. It shall be the policy of the Graduate School to give these examinations three weeks prior to 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 be responsible for the giving of the examination. The student must pass other examinations required by his major department.

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.

Thesis

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.

Before beginning work on the thesis, the student should secure from the Graduate Office the form, Approval of Thesis Project, and also the instruction, Form and Mechanics for Writing Theses.

The student must submit three typed copies of his thesis after it has been formally approved.

Application for Degree

All students planning to complete requirements for graduate degrees must complete application forms for the Graduate Office within the first month of their final semester of work—summers, during the first two weeks.

Graduate Grading System

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.

Probation

One unsatisfactory grade (below C in courses in the 200-series, below B in courses in the 100-series) places a graduate student on probation; two such grades make him ineligible to reregister in a degree program.

Dismissal

The Graduate School reserves the right to dismiss from any graduate degree program any student whose quality of classwork is beneath the standard set by the Graduate Council of the University.

Transfer Credits

Students may be granted up to six hours of advanced standing for graduate credit transferred from other universities, provided the work was not in extension.

Health Service

Full-time graduate students may choose to avail themselves of the University’s Student Health Service at the student fee of $10.00 per semester.

A student accident, sickness, and hospital insurance plan is available to full-time graduate students at a reasonable rate. Family policies are available to married students attending on a full-time basis.

Housing Arrangements

Graduate students usually make their own arrangements for obtaining housing accommodations. Dormitory accommodations are available to a limited number of male graduate students each semester, and generally available to all single graduate students, male and female, during the summer sessions. Assistance in obtaining off-campus accommodations may be obtained by writing the Director of Student Housing, Office of the Dean of Men.

Campus Parking

A limited amount of parking is available to graduate students on campus without charge. The Graduate School cannot guarantee a parking place as a condition of enrollment. Parking stickers, available without charge to graduate students, are required on cars parked on campus.

Facilities for Study and Research

Computer Center: The University Computer Center operates an I.B.M. 1620 type computer which is available to all faculty and
students of the University for either classroom work or research involving statistical or mathematical analyses. Members of the Computer Center also provide consultation and advisory assistance to those wishing to use it in their work.

Library: The University Library (including the Milford Branch) has a rapidly growing collection of more than 149,000 volumes which is selected to serve as well as supplement the education and research programs of the University. To bring the major areas of knowledge in close proximity, the divisional library plan has been established. The divisions are Humanities, Social Science, and Science and Business. Each area is staffed by librarians who are specialists in their fields. Within these divisions the volumes are arranged by subject on open shelves so that the intellectually curious student may browse among them, unhampered by intervening walls and artificial barriers.

Numerous departments of the University maintain departmental collections within their own buildings.

The graduate student is further encouraged in his studies by having available to him individual study carrels. Students wishing to keep books in the library may obtain a locker on an assigned basis.

Center for Human Development: The newly created Center for Human Development is engaged in research studies in the areas of guidance, reading improvement, and Montessori education as well as other areas within the Departments of Psychology and of Education.

Veterans' Education

The Graduate School has been approved by the Veterans' Administration for educational training under all existing public laws. Requests for information should be addressed to The Director, Veterans' Education.

Scholarships: Graduate School

Xavier University annually offers scholarships in all departments in which graduate programs are offered. These departments are business administration, classics, chemistry, education, English, history-political science, mathematics, philosophy, and psychology. 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 $1,050 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

The Walter A. and George McDonald Fund, established in honor of Mr. and Mrs. Andrew J. McDonald, provides income from a gift of $50,000 for a graduate assistant in the Department of Chemistry.

A limited number of other graduate assistantships is awarded annually in the Departments of Chemistry, History, Mathematics, and Psychology. 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 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 ordinarily in April by the chairman concerned.

Lichter Foundation and Defense Act Loan Funds

Graduate students are eligible to participate in the Lichter Foundation Loan Fund after their first semester of residence. Amounts of loans from these funds are determined by the Committee on Scholarships on an individual basis.

Tuition and Fees

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Matriculation (payable once)</td>
<td>$10.00</td>
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<tr>
<td>Tuition (per credit hour—graduate)</td>
<td>$35.00</td>
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Teachers and school administrators receive a special rate of $28.00.

<table>
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<tr>
<td>Laboratory science deposit (per course per semester—partially refundable)</td>
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</tr>
<tr>
<td>Laboratory materials deposit for science thesis (payable once—partially refundable)</td>
<td>$50.00</td>
</tr>
<tr>
<td>Miller Analogies Test</td>
<td>$4.00</td>
</tr>
<tr>
<td>Binding of thesis</td>
<td>$4.00</td>
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<tr>
<td>Graduation fee</td>
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**Contingent Fees**

<table>
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<tr>
<td>Duplicate Transcript</td>
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</table>

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 $250.00, 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 during the academic year or within ten days of the beginning of either summer session.

**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**

The following is the official interpretation of University refund policy as applied to students of the Graduate School:

1. A refund of tuition (fees are not refundable) may be claimed in the case of withdrawal or dismissal in the first weeks of a semester according to the schedule detailed below.
2. Computation of refunds will be based upon the official date of withdrawal, not the last class attended.
3. The official date of withdrawal is the date upon which the student notifies the Graduate Office of his withdrawal, preferably in writing.
4. Withdrawal of a student who has been permitted to make only a partial payment at registration is handled precisely as it would have been had he completed payment; thus he may owe a balance even though he has withdrawn.

**Schedule of Refunds, Academic Year**

<table>
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<tr>
<th>Period</th>
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<tbody>
<tr>
<td>Before student's first class meets</td>
<td>100%</td>
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<tr>
<td>In first or second week from first day of semester</td>
<td>90%</td>
</tr>
<tr>
<td>In third or fourth week from first day of semester</td>
<td>80%</td>
</tr>
<tr>
<td>In fifth or sixth week from first day of semester</td>
<td>60%</td>
</tr>
<tr>
<td>In seventh or eighth week from first day of semester</td>
<td>40%</td>
</tr>
<tr>
<td>In ninth week from first day of semester</td>
<td>20%</td>
</tr>
<tr>
<td>After nine weeks from first day of semester</td>
<td>None</td>
</tr>
</tbody>
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**Schedule of Refunds, Summer Sessions**

For summer refund schedule, substitute “day” for “week” in the schedule for the academic year. For refund purposes two summer evening classes equate with one summer week of day classes.
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### Intercollegiate English Essay Contest, 1966
- John R. Getz, Fifth Place
- James B. Luken, Ninth Place

### Intercollegiate Latin Contest, 1966
- Paul O. Kirley, Fourth Place
- John Francis Makowski, Fifth Place
- Albert Richards, Sixth Place

### The Washington Oratorical Medal, Gift of the Alumni Association, 1966
- Richard L. Grupenhoff

### The Verkamp Debate Medal, Founded by Joseph B. Verkamp, 77, 1966
- Robert J. Thesing

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**Notes:**
- **PAGE** indicates the page number where each topic is located within the document.
- **University, Organizations** contains information about student organizations and other university-related topics.
- **Presidents** and **Services** sections list the names and roles of university presidents and administrative staff.
- **Veterans, Admission of** provides details on veteran enrollment and admission policies.
- **Warned** contains information on disciplinary actions and warnings.
- **Washington Oratorical Medal** and **Wills, Bequests** detail historical and academic awards.
- **Withdrawal, Graduate** and **Undergraduate** sections list policies and requirements for withdrawal and staying enrolled.
- **Xavier Marian Society** and **Xavier Order of Military Merit** are student organizations.
- **Xavier University News, The** provides updates and news related to the university.
- **Yearbook, The Musketeer** includes yearbook information and content.
Jesuit Educational Association
Colleges and Universities

ALABAMA
Spring Hill College, Mobile 36608

CALIFORNIA
Loyola University, Los Angeles 90045
University of Santa Clara, Santa Clara 95053
University of San Francisco, San Francisco 94117

COLORADO
Regis College, Denver 80221

CONNECTICUT
Fairfield University, Fairfield 06430

DISTRICT OF COLUMBIA
Georgetown University, Washington 20007

ILLINOIS
Loyola University, Chicago 60626

LOUISIANA
Loyola University, New Orleans 70118

MARYLAND
Loyola College, Baltimore 21210

MASSACHUSETTS
Boston College, Boston 02167
Holy Cross College, Worcester 01610

MICHIGAN
University of Detroit, Detroit 48221

MISSOURI
Rockhurst College, Kansas City 64110
St. Louis University, St. Louis 63103

NEBRASKA
The Creighton University, Omaha 68131

NEW JERSEY
St. Peter's College, Jersey City 07306

NEW YORK
Canisius College, Buffalo 14208
Fordham University, Bronx 10458
Le Moyne College, Syracuse 13214

OHIO
John Carroll University, Cleveland 44118
Xavier University, Cincinnati 45207

PENNSYLVANIA
St. Joseph's College, Philadelphia 19131
University of Scranton, Scranton 18510

WASHINGTON
Gonzaga University, Spokane 99202
Seattle University, Seattle 98122

WEST VIRGINIA
Wheeling College, Wheeling 26003

WISCONSIN
Marquette University, Milwaukee 53233
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:

________________________________________________________________________

________________________________________________________________________

for the uses and purposes of the said Corporation.

(Signed) ___________________________

(Date) ___________________________

Witnesses:

________________________________________________________________________

________________________________________________________________________

"It is a bad will that has not the name of Our Lord among the heirs."—Cardinal Manning.