Ursinus College Catalogue for the Ninety-seventh Academic Year, 1966-1967

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Ursinus College

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Ursinus College Bulletin

1869 CENTENNIAL 1969

1966 1967
VOL. 65
NUMBER 1
Ursinus College is located in Collegeville, a borough in Montgomery County, Pennsylvania, twenty-five miles northwest of Philadelphia. U. S. Route 422 and Pennsylvania State Highway 29 intersect at Collegeville. It may be reached from Philadelphia by means of Reading or Philadelphia and Western (69th Street Terminal) railroads to Norristown, Pennsylvania, from where buses leave for Collegeville.

Vol. LXIV No. 1

URSINUS COLLEGE BULLETIN

CATALOGUE NUMBER JANUARY 1966

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THE
URSINUS
COLLEGE
BULLETIN
THE
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BULLETIN

Catalogue Number
for the
Ninety-Seventh Academic Year
1966-1967

Collegeville, Pennsylvania
January, 1966
CORRESPONDENCE WITH URSinus COLLEGE

Communications with the College should be addressed to the appropriate administrative officer.

GENERAL COLLEGE MATTERS
The President

PUBLICITY AND DEVELOPMENT
The Vice President

ACADEMIC STANDING OF STUDENTS AND REQUESTS FOR TRANSCRIPTS
The Dean

ADMISSIONS, SCHOLARSHIPS, SUMMER SCHOOL
The Director of Admissions

EVENING SCHOOL
The Director of the Evening School

PAYMENT OF BILLS
The Treasurer's Office

STUDENT EMPLOYMENT
The Director of Student Employment

PLACEMENT OF GRADUATES
The Director of Placement

SOCIAL REGULATIONS AND DORMITORIES FOR MEN
The Dean of Men

SOCIAL REGULATIONS AND DORMITORIES FOR WOMEN
The Dean of Women

ALUMNI AFFAIRS
The Alumni Secretary

The Post Office address is Collegeville, Pennsylvania, 19426

The College telephone number is 489-4111 (Area Code 215)

Visitors to the College are welcome. Student guides are available when the College is in session. The offices of the College are open Monday through Friday 9-12 and 1-5 and on Saturdays 9-12. The Office of Admissions will be closed on Saturdays from June 15 to Labor Day. Applicants for admission are expected to write for an appointment.

Information regarding public transportation and highway routes to Collegeville will be found below the map on the inside of the cover of the Catalogue.
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## THE CALENDAR FOR 1966-1967

### 1966

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<th>JANUARY</th>
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### APRIL

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### JULY

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</table>
THE COLLEGE CALENDAR 1966-1967

1966

January 3 Monday Christmas Recess ends, 8:00 A.M.
January 20 Thursday First Semester examinations begin
January 29 Saturday First Semester examinations end
February 7 Monday Second Semester begins, 8:00 A.M. Registration of New Students
February 15 Tuesday Last day for filing Open Scholarship and Financial Grant Applications
March 25 Friday Mid-Semester grades due, 4:00 P.M.
March 26 Saturday Spring Recess begins 1:00 P.M.
April 4 Monday Spring Recess ends 8:00 A.M.
April 8 Friday Good Friday, No Classes
April 18 Monday Pre-Registration Begins
May 26 Thursday Second Semester examinations begin
June 4 Saturday Second Semester examinations end
June 5 Sunday Baccalaureate Service, 10:15 A.M.
June 6 Monday Commencement, 11:00 A.M.
June 13 Monday Summer School begins, 8:00 A.M.
September 2 Friday Summer School ends
September 17 Saturday Freshman Program begins, Academic Convocation, 4:00 P.M.
September 19 Monday Registration of New Students
September 21 Wednesday First Semester begins, 8:00 A.M.
October 8 Saturday Parents' Day
October 22 Saturday Homecoming Day
November 7 Monday Mid-Semester Grades due, 9:00 A.M.
November 23 Wednesday Thanksgiving Recess begins, 5:30 P.M.
November 28 Monday Thanksgiving Recess ends, 8:00 A.M.
December 17 Saturday Christmas Recess begins, 1:00 P.M.

1967

January 3 Tuesday Christmas Recess ends, 8:00 A.M.
January 19 Thursday First Semester examinations begin
January 28 Saturday First Semester examinations end
February 6 Monday Second Semester begins, 8:00 A.M. Registration of New Students
February 15 Wednesday Last day for filing Open Scholarships and Financial Grant Applications
March 23 Thursday Mid-Semester grades due, 4:00 P.M.
March 23 Thursday Spring Recess begins, 5:30 P.M.
April 3 Monday Spring Recess ends, 8:00 A.M.
April 17 Monday Pre-Registration begins
May 25 Thursday Second Semester examinations begin
June 3 Saturday Second Semester examinations end
June 3 Saturday Alumni Day
June 4 Sunday Baccalaureate Service, 10:45 A.M.
June 5 Monday Commencement, 11:00 A.M.
June 12 Monday Summer School begins, 8:00 A.M.
September 1 Friday Summer School ends, 5:30 P.M.
September 16 Saturday Freshman Program begins, Academic Convocation, 4:00 P.M.
September 18 Monday Registration of New Students
September 20 Wednesday First Semester begins, 8:00 A.M.
<table>
<thead>
<tr>
<th>Name</th>
<th>First Elected</th>
<th>Term Expires</th>
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<tbody>
<tr>
<td>Lillian Isenberg Bahney, B.A., Myerstown</td>
<td>1951</td>
<td>1966</td>
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<tr>
<td>Russell C. Ball, King of Prussia</td>
<td>1963</td>
<td>1968</td>
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<tr>
<td>Charles A. Behney, B.A., M.D., Bisbee, Arizona</td>
<td>1937</td>
<td>1967</td>
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<tr>
<td>Samuel C. Bond, Jr., B.A., Orefield</td>
<td>1952</td>
<td>1967</td>
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<tr>
<td>Evelyn Henzel Crawford, M.A., LL.D., Camp Hill</td>
<td>1960</td>
<td>1970</td>
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<td>William Elliott, LL.D., Collegeville</td>
<td>1964</td>
<td>1969</td>
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<tr>
<td>Thomas P. Glassmoyer, B.S., LL.B., Willow Grove</td>
<td>1956</td>
<td>1966</td>
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<td>Donald L. Helfferich, B.A., LL.B., LL.D., Collegeville</td>
<td>1927</td>
<td>1967</td>
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<td>Rhea Duryea Johnson, B.A., Litt.D., Cornwall</td>
<td>1928</td>
<td>1968</td>
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<tr>
<td>Charles Lachman, LL.D., Wayne</td>
<td>1949</td>
<td>1969</td>
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<tr>
<td>D. Sterling Light, B.A., Norristown</td>
<td>1947</td>
<td>1967</td>
</tr>
<tr>
<td>Mabel Pew Myrin, Kimberton</td>
<td>1964</td>
<td>1969</td>
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<tr>
<td>Ellwood S. Paisley, B.S., Philadelphia</td>
<td>1959</td>
<td>1969</td>
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<tr>
<td>Muriel Brandt Pancoast, M.A., Collegeville</td>
<td>1960</td>
<td>1970</td>
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<tr>
<td>Boies Penrose, B.A., LL.D., Devon</td>
<td>1964</td>
<td>1969</td>
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<tr>
<td>Charles V. Roberts, B.S., Drexel Hill</td>
<td>1956</td>
<td>1966</td>
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<tr>
<td>George L. Thomas, Jr., B.A., D.C.S., Lilypons, Md.</td>
<td>1951</td>
<td>1966</td>
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<tr>
<td>Clarence A. Warden, Jr., LL.D., Philadelphia</td>
<td>1957</td>
<td>1967</td>
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<tr>
<td>Harleston R. Wood, B.A., LL.D., Conshohocken</td>
<td>1956</td>
<td>1966</td>
</tr>
</tbody>
</table>

*Died March 28, 1965*
COMMITTEES OF THE BOARD OF DIRECTORS


OFFICERS OF THE CORPORATION

President: William D. Reimert, Allentown
Vice-President: Theodore R. Schwalm, Lancaster
Secretary: Ellwood S. Paisley, Philadelphia
Assistant Secretary: D. Sterling Light, Norristown
Treasurer: Ellwood S. Paisley, Philadelphia
THE ADMINISTRATION

DONALD L. HELFFERICH, LL.B., LL.D., President
CHARLES LACHMAN, LL.D., Vice President
JAMES E. WAGNER, B.D., D.D., LL.D., L.H.D., Vice President
WILLIAM S. PETTIT, M.S., Dean
JOHN C. VORRATH, Jr., Ph.D., Assistant Dean
GEOFFREY DOLMAN, M.A., Director of Admissions
H. LLOYD JONES, Jr., M.A., Assistant Director of Admissions
ALLAN L. RICE, Ph.D., Assistant to the Director of Admissions and Adviser to Foreign Students
WILLIAM J. PHILLIPS, Ph.D., Director of the Evening School
REV. ALFRED L. CREAGER, B.D., D.D., College Chaplain
RICHARD J. WHATLEY, M.S., Dean of Men
MISS RUTH H. ROTHENBERGER, M.A., Dean of Women
CALVIN D. YOST, Jr., Ph.D., Librarian
ELLWOOD S. PAISLEY, B.S., Treasurer
FREDERICK WENTZ, Business Manager
JAMES R. RUE, Manager, Treasurer's Office
HERMAN M. WESSEL, Ph.D., L.H.D., Director of Placement
EVERETT M. BAILEY, M.A., Director of Athletics
EDWARD H. PLATTE, M.D., College Physician
MISS HELEN M. MOLL, R.N., Resident Nurse
RUSSELL L. REMIG, Ch.E., Superintendent of Buildings and Grounds
WILLIAM S. FRIEDEBORN, B.A., Manager of the Supply Store
RICHARD P. RICHTER, M.A., Alumni Secretary
JOSEPH J. LYNCH, Steward
MRS. BERTHA E. OTTERSTETTER, Dining Hall Hostess and Manager
THE ADMINISTRATIVE STAFF

Resident
MR. H. LLOYD JONES, JR., M.A., Fetterolf House

Resident Heads
MRS. A. E. SCHELLHASE, 646 Main Street
MRS. LAWRENCE H. PEARSON, B.S., Beardwood Hall
MRS. H. CLAYTON MOYER, 944 Main Street
MRS. HERBERT JONES, Hobson Hall
MRS. BRAINARD W. BENNER, Stauffer Hall
MRS. CARL HUCKINS, Clamer Hall
MRS. CLARENCE E. WALCK, Shreiner Hall
MRS. HAROLD L. MERRICK, Paisley Hall
MRS. R. MAX SCHLEGL, Duryea Hall
MRS. SARAH M. MARSH, 942 Main Street

Library
MRS. EMANUEL S. MENDELSON, M.S. in L.S.
MRS. ROGER P. STAIGER, B.A.
MR. EBERHARD H. GEIGER
MISS JUDITH A. ARMSTRONG, M.S. in L.S.

Assistants
MR. HARRY W. GEHMAN, Treasurer's Office
MR. NELSON M. WILLIAMS, Treasurer's Office
MRS. GEORGE PETSOCK, Treasurer's Office
MRS. Verna SCHUSNAR, R.N., Assistant Resident Nurse
MR. HOWARD W. SCHULTZE, Assistant Superintendent of Buildings
MR. JAMES M. PARKER, Assistant to the Steward

Secretaries
MRS. MARY S. STEELE, President's Office
MRS. CLYDE S. MILLER, Vice President's Office
MRS. HARRY R. WOODMANSEE, Dean's Office
MRS. EUGENE RAYMOND ADAIR, Dean's Office
MRS. NEIL H. ULLOM, Dean's Office
MRS. ARTURO LOPEZ, Office of Admissions
MRS. C. F. DONAHUE, JR., Office of Admissions
MRS. WILLIAM E. KOFFEL, Office of Admissions
MRS. HOWARD F. WESTEN, Dean of Women's Office
MRS. EDGAR T. CHRISEMER, Placement Office
MRS. JAMES THOMSON, Placement Office
MRS. MAURICE O. BONE, Alumni Office
MRS. HORACE GODSHALL, Alumni Office
MRS. WILLIAM L. BOSLER, Evening School Office
MRS. KENNETH F. HOFFMAN, Supply Store
MRS. RUSSELL L. REMIG, Office of Buildings and Grounds
THE FACULTY, 1965-1966*

DONALD LAWRENCE HELFFERICH, A.B., LL.B., LL.D., President
B.A., Ursinus College; LL.B., Yale University School of Law; LL.D., Ursinus College, Temple University.

WILLIAM SCHUYLER PETTIT, M.S., Dean; Professor of Chemistry
B.S. in Chem., M.S., University of Pennsylvania.

ELIZABETH BRETT WHITE, Ph.D., Professor of History, Emeritus
B.A., Cornell University; M.A., University of Wisconsin; Ph.D., Clark University.

HARVEY ROSEN VANDERSLICE, M.A., Ped.D., Professor of Education, Emeritus
B.A., Ursinus College; M.A., University of Pennsylvania; Ped.D., Ursinus College.

JAMES LANE BOSWELL, Ph.D., Professor of Economics, Emeritus
B.A., Georgetown College; M.A., Ph.D., University of Pennsylvania.

GEORGE RUSSELL TYSON, Ph.D., Professor of Psychology and Education, Emeritus
B.S., M.A., Ph.D., University of Pennsylvania.

FRANK LEROY MANNING, Ph.D., Professor of Mathematics, Emeritus
B.S., Cornell University; M.S., Rutgers University; Ph.D., Cornell University.

RUSSELL DAVIS STURGIS, Ph.D., Sc.D., David Laucks Hain Professor of Chemistry
B.A., University of Delaware; M.S., Ph.D., University of Pennsylvania, Sc.D., University of Delaware.

*Listed in order of appointment to present rank; appointments of the same year are listed alphabetically.
DONALD GAY BAKER, Ph.D., *Professor of Greek*
B.A., Haverford College; M.A., Ph.D., Harvard University.

GEORGE WELLINGTON HARTZELL, *Professor of German*
B.A., Lehigh University; M.A., Ph.D., University of Pennsylvania.

CALVIN DANIEL YOST, JR., Ph.D., *Librarian; N. E. McClure Professor of English*
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

MAURICE WHITMAN ARMSTRONG, S.T.M., Ph.D., *Professor of History*
B.A., M.A., Dalhousie University; B.D., Pine Hill Divinity Hall; S.T.M. Ph.D., Harvard University.

PAUL RAYMOND WAGNER, Ph.D., *J. Harold Brownback Professor of Biology*
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

EVERETT MARTIN BAILEY, M.A., *Director of Athletics; Professor of Physical Education*
B.P.E., B.S., Springfield College; M.A., Columbia University.

JOHN JACOB HEILEMANN, Ph.D., *Professor of Physics*
B.A., M.A., Ph.D., University of Pennsylvania.

EUGENE HERBERT MILLER, Ph.D., *Professor of Political Science*
B.A., Ursinus College; M.A., Ph.D., Clark University.

WILLIAM FRANKLIN PHILIP, Mus. Doc., *Professor of Music*

FOSTER LEROY DENNIS, Ph.D., *Professor of Mathematics*
B.S., Ursinus College; M.A., Cornell University; Ph.D., University of Illinois.

WILLIAM JOHN PHILLIPS, Ph.D., *Director of the Evening School; Professor of English*
B.A., M.A., Ph.D., University of Pennsylvania.

ELEANOR FROST SNELL, M.A., *Professor of Physical Education*
B.A., University of Nebraska; M.A., Columbia University.

ALLAN LAKE RICE, Ph.D., *Assistant to the Director of Admissions; Professor of German*
B.A., M.A., Ph.D., University of Pennsylvania.

HELEN THOMPSON GARRETT, Ph.D., *Professor of French*
B.A., Swarthmore College; Diplome, University of Lille; Ph.D., University of Pennsylvania.

GARFIELD SIEBER PANCOAST, Ph.D., *Professor of Political Science*
B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

MARK GUY MESSINGER, Ed.D., *Professor of Education*
B.A., Ursinus College; M.A., University of Pennsylvania; Ed.D., Temple University.
*James Allen Minnich, M.A., Director of Placement; Professor of Education
B.S., M.A., University of Pennsylvania.

**Levie Van Dam, Ph.D., Professor of Biology
B.S., M.S., Ph.D., Groningen State University, The Netherlands.

Richard Mumma Fletcher, Ph.D., Professor of Psychology
B.A., Franklin and Marshall College; Ph.D., Pennsylvania State University.

Henry Kennedy Shearer, Ph.D., Maurice O. Bone Professor of Economics
B.A., M.A., Ph.D., University of Pennsylvania.

Bernard Oblenis Bogert, M.A., Visiting Professor of Geology
B.S., Lafayette College; M.A., Columbia University.

Roger Powell Staiger, Ph.D., Professor of Chemistry
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

Elmer Andrew Lissfelt, M.A., Visiting Professor of Education
B.A., M.A., University of Pittsburgh.

Herman Marluk Wessel, Ph.D., L.H.D., Director of Placement; Visiting Professor of Education
B.A., Amherst College; M.A., Ph.D., University of Pennsylvania; L.H.D., Amherst College.

Alfred Leon Creager, B.S., B.D., D.D., Chaplain; Associate Professor of the History of the Christian Church
B.S., Ursinus College; B.D., The Theological Seminary, Lancaster; D.D., Ursinus College.

Raymond Victor Gurzynski, M.Ed., Associate Professor of Physical Education
B.S., Ursinus College; M.Ed., Temple University.

Geoffrey Dolman, M.A., Director of Admissions; Associate Professor of English
B.A., M.A., University of Pennsylvania.

George Gilbert Storey, Ph.D., Associate Professor of English
B.A., Geneva College; M.A., Duke University; M.A., Ph.D., Harvard University.

Elizabeth Read Foster, Ph.D., Associate Professor of History
B.A., Vassar College; M.A., Columbia University; Ph.D., Yale University.

Evan Samuel Snyder, Ph.D., Associate Professor of Physics
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

*Died August 10, 1965
**Absent on sabbatical leave
Frederick Donald Zucker, Ph.D., Associate Professor of Political Science
B.A., Rutgers University; M.A., Ph.D., Pennsylvania State University.
Caroline Visscher Doane, D.U., Associate Professor of Modern Languages
M.A., University of Utrecht, The Netherlands; Docteur, University of Paris.
Robert Stearns Howard, Ph.D., Associate Professor of Biology
B.S., University of Chicago; M.S., University of Miami; Ph.D., Northwestern University.
John Charles Vorrath, Jr., Ph.D., Assistant Dean; Associate Professor of Romance Languages
B.A., Ph.D., Yale University.
Everett Vernon Lewis, Ph.D., Associate Professor of Mathematics
B.S., Ph.D., Massachusetts Institute of Technology.
Howard Lloyd Jones, Jr., M.A., Assistant Director of Admissions; Associate Professor of English
B.A., University of Delaware; M.A., University of Pennsylvania.
William Thomas Parsons, Ph.D., Associate Professor of History
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.
Blanche Beatrice Schultz, M.S., Associate Professor of Mathematics
B.S., Ursinus College; M.S., University of Michigan.

James Douglas Davis, M.A., Assistant Professor of History
B.A., Ursinus College; M.A., University of Pennsylvania.
Walter Woodrow Marsteller, B.S., Assistant Professor of Physics
B.S., Ursinus College.
Harry Clay Symons, M.A., Assistant Professor of Economics
B.A., M.A., Pennsylvania State University.
Raymond Louis Rafetto, Jr., M.A., Assistant Professor of Economics
B.S., Temple University; M.A., University of Pennsylvania.
David Walter Baker, Th.B., M.D., Assistant Professor of Religion
B.A., Coe College; Th.B., Princeton Theological Seminary; M.D., University of Pennsylvania.
Richard Jacob Whatley, M.S., Dean of Men; Assistant Professor of Physical Education
B.S., University of Maine; M.S., Springfield College.
Jane Ann Barth, M.A., Assistant Professor of Chemistry
B.A., Mount Holyoke College; M.A., Smith College.
Gerald Hahn Hinkle, Ph.D., Assistant Professor of Philosophy  
B.A., Franklin and Marshall College; B.D., Lancaster Theological Seminary; M.A., Ph.D., Yale University.

Bradley Bateman Ridge, Ph.D., Assistant Professor of Psychology  
B.A., The University of Texas; M.A., Stanford University; Ph.D., Temple University.

Nancy Lee Riffe, Ph.D., Assistant Professor of English  
B.A., Agnes Scott College; A.M., Radcliffe College; Ph.D., University of Kentucky.

Ray Karl Schultz, Ph.D., Assistant Professor of Chemistry  
B.S., Muhlenberg College; M.S., Ph.D., Lehigh University.

Jessie Ashworth Miller, Ph.D., Lecturer in Sociology
B.A., University of Maine; M.A., Ph.D., Clark University.

Edward Thomas Grabert, Ph.D., Lecturer in Religion  
B.A., Evansville College; B.D., Eden Theological Seminary; S.T.M., Union Theological Seminary; Ph.D., Drew University.

Danila Cole Spielman, Ph.D., Visiting Lecturer in British History  
B.A., Swarthmore College; M.S., Ph.D., University of Wisconsin.

Marian Gertrude Spangler, B.A., Instructor in Music  
B.A., Ursinus College.

Eberhard Hans Geiger, Instructor in German  
Attended Munich and Tubingen Universities.

Arfan Suleiman El-Azmeh, M.A., Instructor in Economics  
License in Law, Syrian University; M.A., University of Pennsylvania.

Nancy Schwartz Mayers, B.S., Instructor in Physical Education  
B.S., New York University.

Raymond Morissette Talbot, M.Ed., Instructor in Reading  
B.S., University of Pennsylvania; M.Ed., Temple University.

Judith Ann Armstrong, M.S. in L.S., Assistant Librarian  
B.A., Ursinus College; M.S. in L.S., Drexel Institute of Technology.

Michael Kirk Foster, M.A.T., Instructor in English  
B.A., Lawrence College; M.A.T., Harvard University.

Mary Gleason Mendelson, M.S. in L.S., Assistant Librarian  
B.A., University of Wichita; M.S. in L.S., Drexel Institute of Technology.

Richard Paul Richter, M.A., Alumni Secretary; Instructor in English  
B.A., Ursinus College; M.A., University of Pennsylvania.

Margaret Brown Staiger, B.A., Senior Assistant Librarian  
B.A., Ursinus College.

Omer Samuel Brengle, M.B.A., Instructor in Economics  
B.S., University of Pennsylvania; M.B.A., Lehigh University.
RICHARD LAWRENCE CALL, M.A., Instructor in Mathematics
B.A., University of Vermont; M.A., Dartmouth College.

WESLEY CALDWELL CLYMER, M.A., Teaching Fellow in English
B.A., St. Lawrence University; M.A., University of Pennsylvania.

MELVYN HERBERT EHRLICH, M.A., Teaching Fellow in English
B.A., M.A., University of Pennsylvania.

HELEN KILZ, M.A.T., Instructor in French
B.A., Hunter College; M.A.T., Harvard University.

PHILIP JOSEPH RAPPOCIO, M.A., Instructor in Romance Languages
B.A., M.A., Rutgers, The State University.

WILLIAM JOSEPH RIFFE, Ed.M., Instructor in Biology
B.S., M.S., University of Kentucky; Ed.M., Temple University.

JOSEPH EDWARD VANNUCCHI, M.A., Instructor in French
B.A., King's College; M.A., Pennsylvania State University.

GARY WALDO, M.A., Instructor in History
B.A., M.A., University of Pennsylvania.

JANE PERRETTEN SHINEHOUSE, P.T., Assistant in Biology
B.S., Ursinus College; P.T., University of Pennsylvania.

VIRGINIA KEIM HUDNUT, B.S., Assistant in Psychology
B.S., Ursinus College.

CONSTANCE WARREN POLEY, B.S., Assistant in Physical Education
B.S., Ursinus College.

JEANETTA RENEE BERGER BICKING, M.S., Assistant in Integrated Course
B.S., Ursinus College; M.S., University of Delaware.

OFFICERS OF THE FACULTY
Chairman, The President
Secretary, Professor Yost

ACADEMIC COUNCIL
The President
Professor Yost

The Dean
Professor Fletcher

ADVISERS
Biology Department, Professor Wagner
Chemistry Department, Professor Staiger
Classics Department, Professor Baker
Economics Department, Professor Shearer
Engineering, Professor Heilemann
English Department, Professor Yost
Germanic and Slavic Languages Department, Professor Hartzell
Health and Physical Education, Professor Bailey
History Department, Professor Armstrong
Mathematics Department, Professor Dennis
Philosophy and Religion Department, Professor Hinkle
Physics Department, Professor Heilemann
Political Science Department, Professor Miller
Psychology Department, Professor Fletcher
Romance Languages Department, Professor Vorrath
Undesignated,

    Humanities, Professor Hartzell
    Social Sciences, Professor Parsons
    Natural Sciences, Professor Snyder
Graduate Scholarships, Professor Yost
Foreign Students, Professor Rice
Freshman Class, Professor Ridge
Sophomore Class, Professor Lewis
Junior Class, Professor Pancoast
Senior Class, Professor Vorrath

COMMITTEES

Admission and Standing: The President, Dean Pettit, Professor Yost, Professor Dolman, Professor Jones.

Library: The President, The Librarian, Professor Armstrong, Professor Sturgis, Professor E. H. Miller, Professor Shearer, Professor Davis, Professor Lewis, Mrs. Staiger.

Scholarships: The President, Dean Pettit, Professor Vorrath, Professor Dolman, Professor Jones.

Discipline: Dean Vorrath, Dean Pettit, Dean Rothenberger, Dean Whatley, Professor Dolman, Professor Sturgis, Professor Lewis, Professor Snyder, Professor Bailey.

Student Activities: Dean Rothenberger, Dean Whatley, The Chaplain, Professor Schultz, Professor Staiger, Professor Pancoast.

Student Publications: Professor Storey, Professor Jones, Professor Hinkle, Mr. Foster, Mr. Ehrlich, Mr. Richter.

Athletics: Professor Bailey, Professor Pancoast, Professor Dolman, Dean Whatley, Professor Storey.

Forum and Cultural Activities: Professor E. H. Miller, Professor Donald G. Baker, Professor Rice, Dean Rothenberger, Professor Philip, Professor Elizabeth R. Foster, Professor Creager, Dr. James E. Wagner.

Curriculum: Dean Pettit, Professor Donald G. Baker, Professor Heilemann, Professor Staiger, Professor Yost, Professor Hartzell, Professor Fletcher, Professor Hinkle, Professor Zucker, Professor Wessel.
THE SUMME
OF CHRISTIAN
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Delivered by Zacharias Vrsius in
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AT OXFORD,
Printed by Joseph Barnes, and are to be sold in
Paules Churchyard at the signe of the Ty-
gers head. 1595.
HISTORICAL SKETCH

The beginning of educational work on what is now the campus of Ursinus College dates back to the construction of a primitive schoolhouse built of logs probably two centuries ago. The ancient building was razed in 1832 when Todd’s School was built in the town of Perkiomen Bridge, now Collegeville. In 1848 Freeland Seminary was opened on a tract adjacent to Todd’s School. The new school occupied the buildings now known as Freeland Hall and Stine Hall. During the following two decades many hundreds of young men were educated here.

In 1867 a group of men, members of the German Reformed Church, actuated by a desire to serve the interests of higher education and of evangelical Christian religion, laid plans to establish a college where, to quote their words, young men could be “liberally educated under the benign influence of Christianity.” They chose as the name of the College that of the distinguished sixteenth-century scholar and reformer, Zacharias Ursinus of the University of Heidelberg. In 1869 the charter was granted by the Legislature of Pennsylvania. The buildings of Freeland Seminary were bought, and instruction was begun on September 6, 1870. Women were admitted to the College for the first time in 1881.

Coincident with the founding of the College was the establishment of a preparatory department as a successor to Freeland Seminary. The preparatory school was called Ursinus Academy and was operated as such until 1910, when it was discontinued.

Although Ursinus College admits students of all faiths, the College has been since its founding a church-related college, related to the German Reformed Church, later known as the Reformed Church in the United States, from 1934 to 1957 known as the Evangelical and Reformed Church, and since 1957 known as the United Church of Christ.

COLLEGE PRINCIPLES

Ursinus College is a Christian, coeducational, liberal arts college which seeks to help the student to understand and to emulate excellence in scholarship and in conduct. Although in recent decades the College has extended its work to include the preparation of men and women for a variety of professions, the College continues to emphasize the fact that however varied and specialized the changing needs of the day, the fundamental needs of man remain constant. Each student, whatever his field of specialization, is required to study those subjects which are the core of our cultural heritage.
Ursinus recognizes its duty to preserve the cultural and spiritual tradition which this generation has inherited and to transmit a sense of that duty to succeeding generations.

The College seeks to help the students to develop those qualities which will fit them for the extraordinary responsibilities of educated men and women. The purposes of the College are achieved through its curriculum, through the many extra-curricular activities, and through the pattern of campus life.

The whole educational program serves to cultivate a particular set of qualities in the students:

1. An active intellectual curiosity and a desire to learn
2. A knowledge of the techniques of sound scholarship
3. An ability to think logically and critically
4. A mature understanding of one’s self, of others, and of society
5. An insight into our natural environment, and a knowledge of the laws governing it
6. An appreciation of our cultural inheritance
7. A sense of responsibility
8. Attitudes consonant with the Christian ideal of morality and service

CULTURAL ENVIRONMENT

Students at Ursinus have all the advantages of living in the country, and at the same time they are close enough to New York and Philadelphia to have access to such additional opportunities for culture as the symphony orchestra, grand opera, legitimate theatres, museums, lectures, and exhibits.

Ursinus is located in the heart of a region which is rich in historical tradition. In Colonial days this region was the center of the cultural and political development of America.

ACCREDITATION

Ursinus is a member of the Association of American Colleges and is on the approved list of the Middle States Association of Colleges and Secondary Schools, the American Association of University Women, and the American Chemical Society.
COLLEGE ACTIVITIES

ATHLETICS

Ursinus recognizes the physical and moral benefit derived from athletic activity and accordingly offers a well-balanced sports program open to all. Intercollegiate competition is encouraged in football, basketball (varsity and junior varsity), soccer, wrestling, cross country, baseball, track and tennis. In addition to this intercollegiate program intramural games are played. Intramural athletics for men include touch football, basketball, volleyball, wrestling, a free-throw contest, softball, track, tennis, and inter-fraternity competition.

For women students, the College supports intercollegiate competition in hockey (varsity and junior varsity), basketball (varsity and junior varsity), softball, tennis, swimming, lacrosse and badminton. The intramural program provides voluntary recreation in hockey, basketball, tennis and softball.

The gymnasiums, playing fields, and equipment available for the pursuit of these various activities are described under Buildings and Equipment. (See pp. 28 to 31.)
ORGANIZATIONS

A large number of organizations provide numerous and varied facilities of extra-curricular activity. All such organizations are approved by the Faculty and are supervised by the Committee on Student Activities or the Dean of Men and Dean of Women. In addition various members of the Faculty serve these groups as advisers. Student life on campus is regulated and controlled by the Men's Student Council and the Women's Student Government Association under the direction of the Dean of Men and the Dean of Women. Members of the student governing organizations are elected by the student body.

Among the most active organizations is the Young Men's and Young Women's Christian Association. Numerous religious and social activities are planned and sponsored by this group in collaboration with other campus groups. Allied religious and service groups are the Chi Alpha Society for those students planning to enter the ministry or other religious work, the Canterbury Club, and the Newman Club.

Other organizations stimulate the interest of students in particular areas of study or in future occupations: the Brownback-Anders Pre-Medical Society, the Beardwood Chemical Society, the English Club, the French Club, the Pre-Legal Society, the Student National and Pennsyl-
vania State Education Associations, and the Economics Club. Interest in athletics and campus spirit is fostered by the Women’s Athletic Association, the Varsity Club, and the Spirit Committee. A chapter of the Honorary Social Studies Society, Pi Gamma Mu, has been established. Outstanding senior men may be elected to Cub and Key and senior women to the Whitians.

A large and varied program of dramatics is sponsored and carried out by the Curtain Club, which presents two major productions a year in addition to various group productions. There is at Ursinus a chapter of Alphi Psi Omega, a national honorary dramatics fraternity.

The Debating Club each year holds intercollegiate and intramural debates on topics of national interest. Members may qualify for election to Tau Kappa Alpha, the national honorary debating fraternity.

Music plays a large part in the life at Ursinus. Choral music is represented by the Chapel Choir; the Meistersingers, who offer concerts on and off campus, including a one-week tour in the spring; the Messiah Oratorio Chorus whose presentation of Handel’s Messiah during the Christmas season is one of the outstanding musical events of the year. Instrumental music is offered by the Concert and Marching Bands. There is a chapter of Pi Nu Epsilon, the national honorary musical fraternity.

There are eleven local social organizations on the Ursinus campus. The fraternities are Sigma Rho Lambda, Zeta Chi, Alpha Phi Epsilon, Delta Mu Sigma, Beta Sigma Lambda, Delta Pi Sigma, and Alpha Phi Omega, the national service fraternity. The sororities are Omega Chi, Alpha Sigma Nu, Kappa Delta Kappa, Phi Alpha Psi, and Tau Sigma Gamma.
PUBLICATIONS

The Ursinus Bulletin, of which the Catalogue is a number, is the official publication of the College. It is issued five times a year.

The Alumni Journal, the official publication of the Alumni Association, appears three times a year.

The Ursinus Weekly is the Ursinus newspaper. It is managed by a Board of Control consisting of student and faculty representatives and is edited and written entirely by the students. The Editor-in-Chief, the associate editors, and the business manager are elected by the board on the basis of merit and the staff is selected by the editors on the same basis. The paper is of interest to students and alumni as a record of life at Ursinus.

The Lantern serves as an outlet for those interested in creative writing and art. It is written and edited by an all-student staff under the direction of a member of the Faculty Committee on Student Publications. It is published three times a year.

The Ruby, the Ursinus yearbook, is published by the Senior Class each year. It is a volume presenting an intimate pictorial account of the year’s activities, not only of the Class, but of the entire College.

Focus, an all-student publication, is a magazine which expresses the political opinions and ideas of students and faculty.
BUILDINGS AND EQUIPMENT

Bomberger Memorial Hall, named for J. H. A. Bomberger, President of Ursinus College, 1870-1890, is a large and imposing structure in the Romanesque style of architecture, built of Pennsylvania blue marble. This building is for the use of the departments of language and literature, the social sciences, history, philosophy, religion, public speaking, and music. In it are the chapel, twelve classrooms, six conference rooms, a seminar room, two music studios, two studies for day students, a recreation room, the student lounge, and the offices of the Dean, the Dean of Men, the Director of Admissions, the Treasurer, the Director of Student Teaching and Placement, and the Director of Student Employment. The erection of Bomberger Hall was made possible by the benefactions of the late Robert Patterson.

Pfaehler Hall of Science, erected in 1932, and named in honor of Dr. George E. Pfaehler, is a stone and concrete building. The first floor and basement are devoted to work in psychology, education, mathematics, and physics, the second floor to biology, and the third floor to chemistry. The building contains the offices of the President, the Evening School, the Levi Jay Hammond Laboratory of Comparative Anatomy, the W. Wayne Babcock Laboratory of General Biology, the Anna Heinly Schellhammer Laboratory, the Schellhammer Laboratory, twelve other teaching and research laboratories, two radio-activity laboratories for research, nine professors’ laboratories and offices, nine classrooms, a lecture hall with gallery and projection booth, and a library. The building is equipped with a deck for astronomical observation, on which is mounted the Elihu Thomson Memorial Telescope.

The Alumni Memorial Library contains reading rooms, offices of the library staff, seminar rooms, workroom, faculty and directors’ room, stacks, vaults containing rare books and manuscripts, music room, and the Shaw-Bernard (Museum) Collection of curios and objects d’art.

The Library collection of 70,000 volumes, exclusive of government documents and pamphlets, has been selected to serve the needs of the liberal arts college. The Library receives over 300 periodicals and newspapers. The location of Ursinus College in the Philadelphia area makes available for special studies the considerable bibliographical holding of neighboring libraries through personal consultation or inter-library loan.

In 1964, the full set of Early American Imprints in microprint augmented Library holdings by the 42,000 items published in America up to 1800. This collection, augmented by several recent and colonial newspapers on microfilm, constitutes the nucleus of the Micro Section of the Library.

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The Thompson-Gay Gymnasium, built in 1927, occupies a convenient position adjoining Patterson Field and John B. Price Field. It is built of native brownstone, structural steel, and concrete. It contains a playing floor, a gallery for spectators, locker rooms, shower rooms, coaches' offices, and storage rooms. At one end of the main floor is a completely equipped theatrical stage. Portable seating constitutes a part of the equipment of the building. This building is a memorial to Robert W. Thompson, '12, and George H. Gay, '13, noted Ursinus athletes, both of whom died in their senior year at the College.

The College Gymnasium, erected in 1947, is located near the Thompson-Gay Gymnasium and Price Field. It contains a large basketball court, two single handball courts, seating for 800 spectators, two dressing and shower rooms for players, a dressing room for officials, and storage rooms.

Superhouse, a residence on Main Street opposite the campus, was bequeathed to the College by the late Henry W. Super, D.D., LL.D., Vice-President and Professor of Mathematics, 1870-1891, and President, 1892-1893.

Sprankle Hall, on the east campus fronting Fifth Avenue, is the infirmary.

Wismmer Hall, completed in 1965, is a student facilities building containing dining halls, a lounge, lecture hall and little theater, a language room, class rooms and seminar rooms. The building is named for the
late Ralph F. Wismer, former Treasurer of the College and member of the Board of Directors. The building is adjacent to the women's dormitories.

**Patterson Field**, named for Robert Patterson, first benefactor of the College, contains the varsity football field, space for competition in field events, and a quarter mile track with a 220-yard straightaway. The steel grandstand provides seating for 1440 spectators.

**Price Field**, named for Dr. John Price, '05, one of the great athletes in Ursinus history, contains the soccer field, the baseball diamond, several softball fields, and football practice ground.

**The Tennis Courts** are at the rear of Curtis Dormitory.

**The Effie Brant Evans Hockey Field** is located on the east campus near Stauffer Hall.

**The Eger Gateway**, erected by the generosity of George P. Eger, of Reading, Pennsylvania, stands at the entrance of the walk leading from Main Street to Freeland Hall.

**Post Office and Supply Store.** A Post Office is maintained on the campus for the convenience of students. Adjacent to the Post Office is the Supply Store, in which are sold text books, college jewelry, stationery, confections, and students' supplies.
DORMITORIES FOR MEN

*Freeland Hall*, erected in 1848, is the original building of Freeland Seminary. *Derr Hall* and *Stine Hall* are additions to *Freeland Hall*. The buildings are of stone, four stories in height with a fifth story of dormer rooms. Laundry facilities for men are available in the basement of Derr Hall. The upper floors are for the residence of men students. The rooms are designed for one or two occupants, a number being arranged *en suite*.

*The Brodbeck and Curtis Dormitories for Men* are buildings in English Colonial style. Each building has four floors. They bear the names of esteemed benefactors of the College, Andrew R. Brodbeck and Cyrus H. K. Curtis.

*Maples*, 512 Main Street; *Fetterolf House*, 554 Main Street; *Zwingli Hall*, 620 Main Street; *Omwake Hall*, 701 Main Street; and *Isenberg Hall*, 801 Main Street, are all residence halls for men.

*Fircroft*, 930 Main Street, a residence for men students, was presented to the College by Miss Sara E. Ermold as a memorial to her mother, Ella N. Ermold.

*Trinity Cottage*, familiarly known as *South Hall*, a residence for men, is located on Sixth Avenue.

DORMITORIES FOR WOMEN

*Paisley Hall*, *Stauffer Hall* and *Beardwood Hall* are three dormitories for women. The buildings house 244 women and are located on the east campus behind the Alumni Memorial Library.

*Hobson House* is located at Sixth Avenue and Main Street. It is used as a residence hall for women.

*Shreiner Hall*, fronting on Main Street and facing the College campus, is a residence hall for women. This is a three-story brick building arranged for the accommodation of thirty-three students and a faculty family.

*Duruya Hall*, 612 Main Street, next to Shreiner Hall, is a residence hall for fifteen women.

*Clamer Hall*, Main Street, the gift of Dr. Guilliam H. Clamer, is a residence hall for women.

646 Main Street, 942 Main Street, and 944 Main Street are residence halls for women.
ADMISSION

The first step in seeking admission to Ursinus College is to file an application. A form for this purpose may be obtained from the Office of Admissions. After the completed form has been returned to the College, accompanied by the ten-dollar application fee, the Director of Admissions will request the applicant’s school principal or headmaster to send an official transcript of the school record. At the same time, inquiry is made concerning the character of the candidate and his ability to do college work.

All applicants must arrange for a personal interview on campus, unless, of course, the distance makes such a visit impracticable. This requirement must be completed before the application is presented to the Committee on Admissions.

Applications for financial aid should be filed at the time the candidate applies for admission.

It is the responsibility of the candidate to make arrangements to take the Scholastic Aptitude Tests and the Scholastic Achievement Tests of the College Entrance Examination Board and to have the test results sent to the Director of Admissions.

TESTS

Candidates for admission to the Freshman Class will be required to take the Scholastic Aptitude Tests and three Achievement Tests of the College Entrance Examination Board. It is recommended that applicants take the December Scholastic Aptitude Tests and three Achievement Tests in January of the senior year. One of the achievement tests must be in English Composition, and one must be in the foreign language which the candidate is presenting for admission purposes. A third achievement test should be in mathematics or science for science majors and in history or social studies for non-science majors. Full information concerning the dates of administering these tests can be obtained by writing directly to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

PREPARATION

A candidate for admission to the Freshman Class must be a graduate of an approved secondary school.

If the applicant is a graduate of a four-year high school he should offer for admission at least fifteen units which are to be distributed as follows:

BASIC ACADEMIC CREDITS (9 Units)

English, Four years, Earning Three Units
Elementary Algebra, One Unit
Plane Geometry, One Unit
Science, One Unit
Social Studies, One Unit
Foreign Language, Two Units in One Language

ADDITIONAL ACADEMIC CREDITS (At least 2½ Units)
Advanced Mathematics
Solid Geometry
Plane Trigonometry
Science
Social Studies
Foreign Language

ELECTIVES (Maximum 3½ Units)
Not more than one unit will be granted for any single elective.
Bookkeeping
Drawing (Mechanical, Prepared Course)
Geology
Stenography
Junior Business Training
Music and Art (History or Appreciation)
Commercial Law
Commercial Geography

If the candidate is a graduate of a three-year high school, he should offer at least twelve units, which should include the basic credits above. Not more than one unit may be presented from the group designated as electives.

Applicants whose preparation does not coincide precisely with the foregoing outline may in exceptional cases be admitted to the College if, in the judgment of the Committee on Admissions, they are qualified to do college work satisfactorily.

EARLY DECISION
Outstanding juniors may apply for admission in the late spring or during the summer preceding the senior year. The College will then write for the high school record, and the applicant should have junior year Scholastic Aptitude Test scores sent and arrange for an interview, preferably prior to October 1. The student should also take achievement tests of the College Board in the Spring or Summer before the beginning of the senior year. Early decisions will be made and students notified in the late summer and early fall.
ENGINEERING PROGRAM
Arrangements have been made with the Engineering Schools of the University of Pennsylvania and similar institutions to which a student may transfer after completing three years of prescribed work toward the B.A. degree at Ursinus College.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The engineering school will grant the engineering degree on satisfactory completion of the fifth year. For the outline of the program see page 111.

The candidate for the Engineering program must present 3½ years of entrance credit in Mathematics.

His background in foreign language must be such that he will be capable of entering the second year of language in college. If he is not so prepared he must make up the deficiency in foreign language in summer school.

ADVANCED PLACEMENT
Students who wish to be considered for advanced courses upon admission may submit the results of the Advanced Placement Examinations as given by the College Board. If the scores are satisfactory, the student may be advanced beyond the basic course, but no credit will be given toward the degree.

SPECIAL STUDENTS
A limited number of applicants who are not candidates for degrees may be admitted as special students, provided that they have satisfactory preparation for the college courses which they wish to pursue. Special students who reside at the College must register for at least twelve hours of work in each semester. They are subject to the same regulations as other students.

TRANSFER STUDENTS
To enter the Sophomore or Junior Class at Ursinus College, an applicant must support his application by requesting each institution he has attended subsequent to graduation from secondary school to send to the Director of Admissions a transcript of his record at the institution of higher learning and a letter from the Dean of Men or Women indicating that the applicant is entitled to honorable dismissal insofar as character and personality are concerned. It will be helpful if the candidate will send a catalogue of the college he has been attending, marked to indicate the course he has taken. No advanced standing will be granted to a transfer student unless his previous college record is free of failures and conditions. There will be no credit for grades below C.
Not more than sixty hours of work taken elsewhere will be credited to students transferring to Ursinus College.

PART-TIME STUDENTS

Non-Resident students who are candidates for a degree and who wish to pursue fewer than twelve hours of work may be classified as part-time students upon the written approval of the Dean of the College.

NOTIFICATION OF ADMISSION

When a candidate for admission is notified of his acceptance by the College, he must make an advance payment of one hundred dollars in accordance with the provisions of the letter of acceptance. This payment is credited on his bill for the first term. If he fails to complete his matriculation, the payment is forfeited.

THE SUMMER SCHOOL

The curriculum of the Summer School is announced in the Spring and information concerning course offerings is available after April 15. Admission to Summer School is limited to students who are candidates for, or who have received degrees from, Ursinus College or other accredited institutions of higher learning. An applicant from another institution must submit written permission from the Dean of that institution authorizing him to enroll for a specific course or courses. Inquiries should be addressed to the Director of Admissions.

THE EVENING SCHOOL

The Evening School is organized to make college work available to men and women employed in business, in industry and teaching, and to others who may be interested. The program emphasizes courses in business administration and in fields closely allied to business administration, such as economics, political science, history, English composition, public speaking and certain foreign languages.

For information, catalogue, and application forms, address The Director, Evening School, Ursinus College, Collegeville, Pa.

TUITION EXCHANGE PROGRAM

Ursinus College is a member of the Tuition Exchange. Requests of children of faculty members of other member institutions for tuition remission will be considered upon application. Because of the necessity for maintaining a balance of imports and exports, it may not always be
possible to honor such requests. Applications for tuition remission should be made through the liaison officer of the institution with which the applicant's parent is associated. Those who receive aid through the Tuition Exchange Program are not eligible for additional grants.

PROGRAMS IN SPECIAL FIELDS
Ursinus is a college of liberal arts and sciences and emphasizes a broad, general education regardless of the career for which a student plans to prepare. At the same time, it is possible at Ursinus to prepare for specific careers in the fields listed below. A placement service maintained by the College helps the student to find a position in the field of his choice.

Business. Graduates in Economics and other departments are employed by many types of industrial concerns, banking institutions, public utilities, transportation companies, department stores, chain stores, etc. By electing languages, students majoring in business may prepare for the growing opportunities in world trade.

Chemical Research: Industrial Chemistry. The College provides opportunities for students desiring to major in Chemistry with a view to devoting their lives to some type of chemical research. Graduates find employment in the chemical industry doing pioneer work in the field of chemical research and development.

Dentistry. 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 full years of academic work in an accredited college of liberal arts and science. This college work must include courses in English, biology, physics, inorganic and organic chemistry.

Educational Administration. Basic courses in Education are provided which are prerequisite to the professional courses in Educational Administration offered in graduate schools of education of leading universities.

Engineering. Students who wish to study Chemical, Civil, Electrical, Mechanical or Metallurgical Engineering may avail themselves of a program which is being offered at Ursinus College in cooperation with engineering schools. A student at Ursinus College may transfer to an engineering school after completing three years of prescribed work toward the B.A. degree at Ursinus.
Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The engineering school will grant the engineering degree upon completion of the fifth year.

**Foreign Service.** The American foreign service presents attractive opportunities to a limited number of young people who are willing to prepare themselves adequately for service abroad. The history and social science courses, together with offerings available in the modern languages, provide preparation for the examinations required of applicants for positions in foreign service. Upon graduation students are urged to pursue additional work at a recognized graduate school.

**Graduate Study.** One purpose of the curriculum of the modern liberal arts college is to prepare students for advanced study in various fields of knowledge. Preliminary study is done by the student at the undergraduate level in his chosen major field. Those intending to enter graduate schools should have a thorough grounding in their chosen field. As a reading knowledge of French and German is essential for most higher degrees, this knowledge should be acquired in the undergraduate school.

**Health and Physical Education.** It is possible to specialize in health and physical education and at the same time obtain a general cultural education. Health and physical education graduates meet the requirements for certification to teach in this field in Pennsylvania and other states.

**Journalism.** A student interested in journalism should enroll in the departments of history, political science, or English and elect widely in other fields. A year at a professional school of journalism is recommended.

**Law.** As a general rule leading law schools require a baccalaureate degree as one of the conditions for acceptance of candidates. A broad, cultural education is considered the best preparation for legal study.

**Medicine.** Concentration in biology or chemistry is recommended in order to prepare students who are interested in the various aspects of medicine. Preparation for schools of osteopathy and of veterinary medicine, as well as for the regular medical schools, is provided.

**Music.** Although a considerable number of courses in music are available at Ursinus, no major in music is offered. Those who wish to follow music as a career should plan to attend graduate school after completing their work at Ursinus.
Nursing. Students who plan to enter the profession of nursing should register for courses in biology, chemistry, and liberal arts in order to qualify for consideration by schools of nursing.

Physical Research. A program of concentration in physics and mathematics is offered to students interested in physics as a career.

Psychology. Undergraduate work in psychology is designed for those who seek admission to graduate schools or who wish to enter personnel work in industry. Undergraduate study in psychology is of assistance in the fields of teaching, guidance, law, clinical psychology, personnel and social work, nursing, and preparation for medicine.

Teaching. Work in education, including practice teaching, as required by many of the state departments of education, is offered to those who plan a career in education. Teacher preparation is limited to the secondary school field. Students follow curricula under the guidance of advisers.

Church Vocations. Most leading theological schools have as a requirement for consideration for admission a degree in liberal arts. Students who are preparing for church vocations should plan a broad course of study which will include history, languages, literature, religion, and philosophy.

THE COLLEGE YEAR

The College year at present consists of two terms of sixteen weeks each and a Summer Term of twelve weeks. Students are admitted to the College at the beginning of any term. Students who wish to do so may accelerate their college courses by attending the Summer Term in addition to the Fall and Spring Terms. The Summer Term is available to all students who wish to take advantage of it.
EXPENSES

RESIDENT STUDENTS Charges Per Year

Comprehensive Fee .............................................. $2300 to $2350
Activities Fee ..................................................... $  20

NON-RESIDENT STUDENTS Charges Per Year

Tuition ................................................................. $1400
Activities Fee ..................................................... $  20

PAYMENTS ARE TO BE MADE AS FOLLOWS:

New Students
  Advance Payment — as requested ............................... $ 100
  Breakage Deposit — As indicated on bill ....................... $  10
Old Students
  Advance Payment — July 15 ..................................... $ 100

All Students
  September — One-half annual Comprehensive Fee, less
              credit for Advance Payment.
  January — One-half annual Comprehensive Fee.
  One-half Activities Fee.

Charges quoted are made on an annual basis. Billings are presented
semi-annually and are due for payment in September and January, no
later than the date indicated on the billing. A $10 fee is charged for
late payment.

When the student is a recipient of a scholarship award, credit will be
applied in the amount of one-half the value of the annual award to each
semester bill.

For those who prefer to pay tuition in monthly installments, the College
offers special arrangements made with the Girard Trust Bank of Phila-
delphia, and/or the Insured Tuition Payment Plan of Boston.

FEES

APPLICATION FEE. A fee of $10 is paid by the candidate at the time he files
his application. This fee is not refundable and is not applied toward the
student's bill.

SPECIAL AND PART-TIME STUDENTS are charged at the rate of $52.50 per
semester hour.

ADVANCE PAYMENT. (a) Upon his acceptance by the College an applicant
must make an advance payment of $100. This payment is credited on his
bill for the first term. If he fails to complete his matriculation, this pay-
ment is forfeited. (b) All regularly enrolled students must make an ad-

Checks should be made payable to URSINUS COLLEGE.
vance payment of $100 at such time as may be designated by the College. This payment is forfeited if the student fails to complete his registration.

**Comprehensive Fee** covers classroom instruction, tuition, use of libraries, gymnasiums, and the infirmary; ordinary medical attention; care by the resident nurse; furnished room and board, exclusive of Christmas and Winter and Spring recesses. The variation in fee depends upon the location of the room and choice of major.

*The College reserves the right to make reasonable adjustments in the comprehensive fee at the beginning of any term to cover possible unforeseen costs.*

**Activities Fee** covers subscription to the *Ursinus Weekly*, intercollegiate debating, the Christian Associations, the Ursinus College Forum, admission without charge to all athletic contests at the College and to College dances.

**Students' Medical Insurance Plan.** A twelve-month coverage for accident, sickness, and health is available at nominal cost. Further information is available in the Office of the Treasurer.

**Pre-Session Camp for Women in Physical Education.** An instructional fee of $75 is charged for attendance at the Pre-Session Physical Education Camp. The charge for room and board is $55 for the period.

**Room Drawing.** A previously enrolled student must pay $10 in order to qualify for drawing a room. Credit for this amount will be applied on the bill for the following term.

**Private Musical Instruction.** A fee of $150 is charged for any students wishing private individual instruction in voice or on the piano, organ or other orchestra or band instrument. This charge is for one half-hour lesson each week during the regular college year and is payable as shown on billing.

**Science Fee.** A fee of $25 per semester is charged to students majoring in Biology, Chemistry, Pre-engineering, Physics, and Freshmen who are enrolled in Undesignated Natural Science. This fee also applies to students majoring in Psychology during the semester in which Psychology 10 is taken.

**Breakage Deposit.** A deposit of $10 is required of each new student to defray any expense incurred by injury to property and is included on the bill for the first term. The unexpended balance is returned upon graduation or withdrawal from College.

**Student Teaching.** An additional fee of $75 is required of each student engaged in student teaching. This is payable upon presentation of the bill.

*Checks should be made payable to URSINUS COLLEGE.*
EXPENSES

GRADUATION FEE. A graduation fee of $25 is charged each student on the last bill of his senior year. An additional deposit of $25 will be required for the use of cap, gown, and hood. This deposit will be refunded upon return of the equipment.

TRANSCRIPT FEE. A charge of $1 is made for each transcript of a student's record after the first. Requests for transcripts should be made to the Office of the Dean.

REGULATIONS

Bills for the Comprehensive Fee are issued approximately thirty days before the beginning of each term. A student's bill must be settled no later than the date indicated on the statement.

No student who is indebted to the College or to any of its departments or agencies will be permitted to register at the beginning of any term, and all items due the College from a candidate for graduation must be paid before the candidate may be presented for a degree.

A student who is absent from College because of sickness and retains his place in class pays the Comprehensive Fee in full during his absence, except when the absence is continuous over a period exceeding four weeks, in which case resident students are allowed a rebate of $10 for each full week on account of table board.

No refund is allowed because of a student's dismissal or withdrawal from the College during a term, except when the student enters the armed services.

A student who voluntarily withdraws from College must notify the Dean of the College in writing and settle all bills within thirty days or be liable to dishonorable dismissal.

The possession or use of alcoholic beverages or firearms on the campus or in Collegeville is forbidden.

Freshman and Sophomore resident students are prohibited from having an automobile in Collegeville and vicinity during the academic year. Junior and Senior resident students holding scholarships, financial grants, and positions under the Bureau of Student Employment are similarly restricted.

If a woman student marries, she at once forfeits her membership in the College. She may, however, apply for readmission.

The College reserves the right to exclude at any time students whose conduct or academic standing renders them undesirable members of the college community, and in such cases the fees due or paid in advance to the College will not be refunded in whole or in part.

Checks should be made payable to URSINUS COLLEGE.
GENERAL INFORMATION

ROOMS AND MEALS

_Ursinus College_ is a community and pleasant community life is emphasized. Students who are not living in their own homes are required to room at the College and to take their meals in the College dining rooms.

Each resident student supplies his own towels, pillow, two pairs of sheets for a single bed, mattress protector, a pair of pillow cases (38” x 45”), a pair of blankets, and a bedspread. Linen rental service is available.

First-year students, except those whose presence is needed for service, are required to vacate their rooms immediately following the second-term examinations.

PUBLIC WORSHIP

All resident students and all day students whose homes are within a mile of the campus are required to attend chapel on certain designated days of each week. Students may not be absent from chapel more than four times in a semester without valid excuse. Students are encouraged to attend services on Sunday in the church of their own choice.

ABSENCES

Students are expected to attend all meetings of the classes in which they are enrolled and to take all tests and examinations on the announced days.

A student’s absences in any course must not exceed twice the number of meetings per week in that course. This regulation is designed to allow for cases of illness, the death of a relative, or duty away from the College as a representative of the institution, and, in the case of a day student, transportation difficulties.

If a student has exceeded the number of allowed absences he may be dropped from the course by the Dean after consultation with the instructor and the student’s adviser. If a student is dropped for over-cutting, he will be assigned a grade of _F_ in that course. If he is allowed to continue, he must make up the work missed and pay the required fees for permits and re-examinations.

Three latenesses are counted as the equivalent of one absence. Absences directly preceding and following a holiday are counted double.

A third-year or fourth-year student whose grades in the term immediately preceding include at least one _A_ and no grade lower than _B_ is placed on his own responsibility for attendance at classes.

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GRADES OF SCHOLARSHIP

When a course has been completed, the standing of the student is expressed, according to his proficiency, by one of five grades: A, B, C, D, or F. Letter A denotes grades between 100% and 90%, B between 90% and 80%, C between 80% and 70%, D between 70% and 60%, and F denotes 45%. Any grade of less than 60% denotes a failure in the course. Students who have received passing grades are not permitted to take re-examinations for the purpose of raising their grades.

The mark I, which may be given only with the written permission of the Dean, is reserved for cases of incomplete work or of failure under extenuating circumstances. When the removal of the mark I requires an examination, a fee of ten dollars ($10.00) will be charged. If the mark of I is not removed within one month after the beginning of the following regular term, the grade of F will be assigned for the course.

A student is required to have an average of 70% at the end of each term in College. A student who fails to do so may be restricted in his extracurricular activities, and will be reported to the Faculty.

A student whose average at the end of the first term or second term is below 65%, whose cumulative average is below 65% at the end of the first year, or whose cumulative average is below 70% at the end of the third term or thereafter will be dropped from the College unless, as a result of mitigating circumstances, the Faculty votes that he be permitted to continue. The action of the Faculty in all such cases is final.

Employment under the Bureau of Student Employment is not allowed to a student whose average for the preceding term is below 70%. A student under discipline may be barred by the Committee on Discipline from all extracurricular activities.

A permanent record is kept of each student's work, a copy of which is sent to his parent or guardian at the close of each term. The standing of first-year students is reported also at mid-term. Through correspondence and conferences, the cooperation of parents is sought in the endeavor to obtain the best possible results in the work of students.

Any student may be dismissed from the College for cause by the Faculty, regardless of the student's academic average.

DEGREES

Ursinus College confers three degrees in course: Bachelor of Arts, Bachelor of Science, and Bachelor of Business Administration (Evening School only). For specific requirements of the curricula leading to each of these degrees, see pages 104 to 109 and the catalogue of the Evening School. Degrees are conferred only at convocations and candidates must present themselves in person.
The College may confer the honorary degrees of Doctor of Divinity, Doctor of Pedagogy, Doctor of Science, Doctor of Letters, and Doctor of Laws on persons whose distinguished ability and service have been deemed worthy of such recognition by the Faculty and the Board of Directors.

HONORS

COMMENCEMENT

Two Commencement honors are assigned: one, the Valedictory, to the person attaining the highest standing in the graduating class; the other, the Salutatory, to the person attaining the next highest standing.

GRADUATION WITH DISTINCTION

Members of the graduating class who have shown great proficiency in their entire course may be graduated with distinction if, in the opinion of the Faculty, their attainments warrant such honors. These distinctions, Summa Cum Laude, Magna Cum Laude, and Cum Laude, are given only for unusual excellence in all the subjects pursued by the candidate.

THE CHAPTER

The Chapter, a society of faculty members holding Phi Beta Kappa keys, is especially concerned with cultivating the arts and sciences at Ursinus College.

Each year The Chapter designates certain seniors as “Chapter Scholars” on the basis of the quality and range of their intellectual interests and attainments.

THE PRESIDENTIAL PRIZES

A number of Presidential Prizes will be awarded each year to upperclassmen. These prizes, of varying amounts, will be awarded to students who are in good academic standing, who have been good citizens of the College, who have rendered outstanding service to the College through their leadership in student organizations and activities. Continued good grades, citizenship, leadership and service may result in a second or even third conferral of the Presidential Prize. The winners of the Presidential Prizes will be announced by the President of the College, who may appoint a Faculty committee to aid in the selection.

MEDICAL SERVICE

The Comprehensive Fee paid by resident students entitles them to ordinary medical attention. The College Physician may be consulted in his
office on the campus during office hours. He will regularly visit patients in the infirmaries. During the regular College sessions the resident nurses are on duty twenty-four hours a day. They care for the sick under the direction of the College Physician.

The College will not pay bills that students contract with hospitals or with physicians or nurses not on the staff of the College. The College reserves the right to enforce quarantine and to engage the services of special attendants if necessary, but will not be responsible for the compensation of extra physicians, nurses, or attendants, which compensation must be provided by the student or his parent or guardian.

ACCIDENT AND HEALTH INSURANCE
A Student accident and health insurance program is available. Details are available in the Office of the Treasurer. See under Expenses.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION
A camp is available on an optional basis for sophomore, junior, and senior women who are majoring in Physical Education. The camp is operated during a period of two weeks immediately preceding the opening of the fall term. Class instruction by regular members of the staff normally includes work in archery, canoeing, hockey, horseback riding, officiating, swimming, life-saving, and tennis. The time spent in camp activities will be deducted from the hours required in Physical Education activities. Courses 303 to 308, during the college year. See page 40.

JUNIOR YEAR ABROAD
An Ursinus College Student may spend the Junior Year at a foreign university, provided that he has maintained a B average at Ursinus College and, in the opinion of the Dean and the Faculty, will be a worthy representative of his country. The course of study abroad must be approved at the time that permission is given. An examination covering the year's work may be required by the department chairman upon the student's return.

FOREIGN STUDENTS
The Foreign Student Adviser on campus sees to the special needs of these students; after a foreign student has been accepted he should write to the Adviser if any problems arise.

Foreign students are usually classified by the College as Special Students, at least for their first year. They may then be admitted to degree candidacy for subsequent years. Although facility in understanding
spoken English will be a requisite for admission, foreign students would do well to arrive in the United States before the opening of the college year in order to become familiar with American English. A “homestay” of one month as arranged through the Experiment in International Living, Putney, Vermont, U.S.A., is highly recommended to all whose native tongue is not English. Information concerning fees and arrangements can be obtained directly from the organization.

A foreign student should make sure that his visa is valid for more than a single entry into the United States, since on vacation trips students often wish to cross the borders into Canada or Mexico.

Foreign students should take note that the college dormitories and dining halls are in operation only while the college is in session. All students must provide for their own living expenses during recess or vacation periods, even if they remain in Collegeville.

When the student arrives in the United States, the immigration official will indicate a date by which the foreign student must leave the country again, sometimes earlier than the expiration date of the visa. Students are urged on arrival to request at least a full year’s stay, especially if they plan a sightseeing tour before leaving for home.

Transportation should be arranged via Philadelphia; it takes about an hour to reach Collegeville by public transportation. Foreign students may telephone the Foreign Student Adviser at 215-489-7020 if they need assistance.
SCHOLARSHIPS & AID TO STUDENTS

FULL-TUITION SCHOLARSHIPS
There are eight Open Scholarships, each having a potential value of $5600, available to the entering Freshman Class in September. The Open Scholarships are competitive, provide full tuition to the recipients, and are tenable for four years, provided that the holder’s conduct and scholastic work remain satisfactory. All scholarships are subject to yearly review.

Candidates for Open Scholarships must take the Scholastic Aptitude Test and three Scholastic Achievement Tests (one of which must be in English) in the December, January or March series of the College Entrance Examination Board. See page 32.)

Application for Open Scholarships must be filed by February 15.

OTHER FINANCIAL GRANTS
Many endowed financial grants, each having a potential value of from $200 to $2800 for four years, are awarded on the basis of financial need. Each grant is tenable for four years provided that the holder’s conduct and scholastic work remain satisfactory. All financial grants are subject to yearly review.

Scholarship application forms may be obtained from the Director of Admissions. Applicants for both types of aid are required to fill out the College Scholarship Service Statement, indicating financial status.

Applications for financial grants must be filed by February 15.

Ursinus College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student’s need for financial assistance. Entering students seeking financial assistance are required to submit a copy of the Parents’ Confidential Statement (PCS) form to the College Scholarship Service, designating Ursinus College as one of the recipients, by February 15. The PCS form may be obtained from a secondary school or the College Scholarship Service, P. O. Box 176, Princeton, New Jersey, or P. O. Box 1025, Berkeley, California 94704.
BUREAU OF STUDENT EMPLOYMENT

The Bureau, conducted under the management of officers of the College, provides opportunities for students to earn a part of their expenses by working as waiters, laboratory assistants, library assistants, typists, and clerks in the Supply Store. These positions are standardized so as not to overburden the student or to interfere with his studies. Positions accepted under the Bureau of Student Employment must, however, always take precedence over any other extra-curricular activities. A standard position, such as a waitership in the dining room, pays three hundred and seventy dollars per year. Approximately two hundred positions, representing varying amounts of compensation and types of work, are now open to students.

Students who agree to perform a specific task, such as serving in the dining rooms, have their accounts credited in advance of their work. Those who work by the hour, however, have their accounts credited at the end of their term of work. Inasmuch as bills for the Spring Term are prepared and mailed before the end of the Fall Term, students who work by the hour must all have their bills adjusted at the opening of the Spring Term.

Letters of application, as well as those requesting information, should be addressed to the Director of Student Employment.

PLACEMENT BUREAU

Ursinus College conducts a placement bureau to assist students and graduates in finding positions for which they qualify. Its function is to serve as a point of contact for seniors and alumni with educational institutions, business, and industry. Detailed personal and scholastic records of seniors and alumni are compiled and are available along with a photograph, for all prospective employers.

Alumni Placement — The Placement Bureau acts as a clearing house for the placement of alumni seeking employment or new positions. Alumni are encouraged to place their names on the list of available candidates. A fee of $1.00 is charged for alumni registrations.

Persons seeking placement in the educational field or in business or industry should address communications to the Director of Placement, Ursinus College, Collegeville, Pa.

LOAN FUNDS

Permanent funds have been established to provide loans to third-year and fourth-year students. Applications for loans should be addressed to the Director of Admissions.
PERMANENT SCHOLARSHIP FUNDS

The College possesses a number of permanent scholarship funds. The income of each fund is assigned annually to a student designated by the College. The list of these scholarships is as follows:

The John Alexander Scholarship, founded by John Alexander, D.D., of St. Louis, Missouri, in appreciation of benefits enjoyed when a student in the College,

$1,000.00

The Alumni Memorial Scholarships, founded by the gifts of alumni and friends, in memory of the Ursinus men who gave their lives in the service of their country, 1941-45,

102,485.76

The Appel Memorial Scholarship, founded under the will of the Rev. Richard S. Appel, D.D., as a memorial to his son, Robert S. Appel, A.B., '01,

2,000.00

The Aspden Memorial Scholarship, founded by Newton J. Aspden, of Trinity Reformed Church, Philadelphia, in memory of his beloved wife, Levinah Erb Aspden,

5,000.00

The Bahner Scholarship, founded in 1919 by the members of Trinity Reformed Church, Waynesboro, Pa., in honor of the Rev. Franklin F. Bahner, D.D., '73, and his wife, Mary Ella Bahner, on their completion of forty-two years of devoted service in the pastorate of the Waynesboro charge,

1,000.00

The F. Kline Baker Scholarship, founded under the will of F. Kline Baker, of Philadelphia, in memory of his wife, Helen Baker,

2,000.00

The Pearl and John E. Beddow Scholarship, founded by Thomas J. Beddow, '36, and Virginia Fenton Beddow, '37, the income to be used to help defray part of the tuition costs of a graduate of Frackville, Pennsylvania, High School who is a regularly enrolled student at Ursinus,

4,096.39

The Beck Scholarship, founded by the Rev. Samuel W. Beck, of Littlestown, Pa., in appreciation of the scholarships awarded to his four daughters, the income to provide scholarships for girls who plan to teach,

1,000.00

The Augustus Behney Scholarship, founded by Charles A. Behney, M.D., '12, in memory of his father,

4,100.00

The Valeria Behney Scholarship, founded by Charles A. Behney, M.D., '12, in memory of his mother,

4,100.00

The Bethany Tabernacle Scholarship, founded by the congregation of Bethany Tabernacle Reformed Church, Philadelphia, the Rev. H. H. Hartman, '94, pastor,

2,000.00
The J. William Bireley Scholarship, founded by J. William Bireley of Frederick City, Md.,

The Anna M. Bomberger Scholarship, founded by Anna M. Bomberger, with gifts amounting to $600 and completed by Mrs. H. S. Bomberger, both of Lancaster, Pa.,

The Bright Scholarship, founded by James W. Bright, D.D., ’22, Phyllis Bright Rogers, ’48, and James W. Bright, Jr., ’54,

The Wayne Brown Memorial Scholarship Fund, established by friends of Wayne A. Brown, ’17, the income to be awarded to deserving students who have demonstrated qualities of leadership in the classroom and on the athletic field,

The John Brownback Memorial Scholarship, founded by Melinda M. Acker and Mary M. Brownback, of Uwchland, Chester County, Pa., in memory of their father,

The Mary M. Brownback Scholarship, founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa.,

The Bushong Scholarship, established in memory of Morton E. Bushong by his wife, Daisy M. Bushong, the income to be used for grants to deserving students from Upper Darby, Pa.,

The Carson Scholarship, founded under the will of Captain John Carson, of Newburg, Cumberland County, Pa.

The Christ Church, Hellertown, Scholarship, founded by the congregation of Christ Evangelical and Reformed Church, Hellertown, Pa., the Rev. Adam E. Schellhase, ’18, pastor,

The Guiliam H. Clamer Scholarship, founded to honor Guiliam H. Clamer, D.Sc., by his associate, Edward Allan Ginkinger, the income to be awarded to a deserving student in one of the sciences,

The Jacob Henry Clark Scholarship, established by his wife, Altheda Faux Underwood, ’18, by his son Richard H. Clark, ’48, and Frederick J. Faux, M.D., ’33,

The Class of 1911 Scholarship, founded by the Class of 1911,

The Class of 1937 Scholarship, founded by the Class of 1937,

The Henry Colliflower Scholarship, founded under the will of Henry Colliflower, of Hagerstown, Maryland, to be used in defraying the expenses of needy students who desire to enter the ministry,

The John H. Converse Scholarship, founded by John H. Converse, of Philadelphia,
The Cub and Key Scholarship, founded by The Cub and Key Society, 8,967.69

The Deitz Scholarship, founded by Gilbert A. Deitz, '18, and Purd E. Deitz, '18, in memory of Martha E. Deitz and Mattie A. Deitz, 1,000.00

The Barnabas Devitt Scholarship 1,000.00

The Elsie Devitt Scholarship 1,000.00

The Emma Mayberry Devitt Scholarship 1,000.00

The Devitt Scholarships were founded under the will of Emma Devitt of Philadelphia, Pa.,

The Doll Family Scholarship, founded by George Doll, Adaline Doll, and Josephine Doll of Philadelphia, 2,037.92

The Miriam Zaugg Dreibelbis Scholarship, established in memory of Miriam Zaugg Dreibelbis, '24, by her husband, F. Ralph Dreibelbis, the income to be used for grants to deserving women students, 2,200.00

The Charles and Elizabeth Drumm Scholarship, founded by Charles Drumm, of Philadelphia, Pa., 4,000.00

The Eastwick Scholarships, founded by Joseph Lees Eastwick, LL.D., 25,500.00

The Meta D. and Friedrich A. Eilts Scholarship, established by Herrmann F. Eilts, '43, in memory of his parents, 1,500.00

The Erb Scholarship, founded by the Rev. William H. Erb, '93, and Andora Erb, 2,000.00

The Evangelical and Reformed Church Scholarship, the income to be awarded to students demonstrating Christian leadership, 10,360.00

The Featherer Scholarship, established by Alvin R. Featherer, '29, the income to be used for the awarding of scholarships to needy and deserving students, 3,500.00

The Walter Hobson Fenstermacher Scholarship, founded to honor Walter H. Fenstermacher by his wife, Anna C. Fenstermacher, the income to be awarded to needy and deserving students, 1,000.00

The Fetterolf Memorial Scholarship, founded under the will of Abraham D. Fetterolf, of Collegeville, Pa., 2,000.00

The John B. and Horace A. Fetters Scholarship, founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa., 1,000.00

The John B. Fetters Memorial Scholarship, founded by Rebecca B. Fetters, of Uwchland, Chester County, Pa., in memory of her son, who died after a week's attendance at College in September, 1885, 1,000.00
The Rev. and Mrs. I. Calvin Fisher Scholarship, established by Ada M. Fisher, '13, in memory of her parents, 1,450.00

The Fluhrer-Shelley Scholarship, founded by the joint gifts of Mr. and Mrs. Robert C. Fluhrer and Mr. and Mrs. E. Eugene Shelley, '37, (Dorothy Thomas, '35), York, Pa. 3,400.00

The Fogel Memorial Scholarship, founded under the will of Minnie G. Fogel in memory of her parents, the Rev. Dr. Edwin J. and Jennie E. Fogel, 4,000.00

The Edwin M. and Minnie G. Fogel Scholarship, founded under the will of Minnie G. Fogel, the income to be used for a scholarship for a young man of moral and intellectual worth in order to prepare himself for the Christian ministry in the Evangelical and Reformed Church, 2,000.00

The Alice L. and William D. Fox Scholarship, founded under the will of Alice L. Fox, of Lebanon, Pa., 1,000.00

The Alice R. Fox Memorial Scholarship for Girls, founded under the will of David R. Rohrbach, '07, 11,854.16

The Henry Francis Scholarship, founded by Henry Francis, of Spring City, Pa., 1,000.00

The Elizabeth Frey Scholarship, founded by gift of Elizabeth Frey, of Stewartstown, Pa., 11,500.00

The Alfred Gemmell Scholarship, founded in memory of Alfred Gemmell, '39 (1916-1957), 1,537.41

The General Scholarship Fund, founded by the gifts of alumni and friends of Ursinus College, 42,327.05

The Glatfelter-Mader Scholarship, established by Edward A. Glatfelter, '12, Ed.D., and his wife, Ruth Mader Glatfelter, B.S., Columbia University, in honor of their children, Edward and Janice, 1,000.00

The Grossman Scholarship, founded under the will of Eugene S. Grossman, '20, of Cleveland, Ohio, the income to be used for awards to students who have demonstrated qualities of leadership on the athletic field and in the classrooms, 95,705.90

The Anna High Godshalk Scholarship, founded in memory of Anna High Godshalk, '20 (by her husband, Ralph L. Godshalk), 5,000.00

The Grace Church Scholarship, founded by Milton Warner and Wilson H. Lear, of Grace Reformed Church, Philadelphia, Pa., 1,000.00

The Haines Scholarship, founded by Charles Grove Haines, '03, and Bertha Moser Haines, '02, 1,749.83
SCHOLARSHIPS AND AID TO STUDENTS

The Heidelberg Scholarship, founded by a member of Heidelberg Reformed Church, York, Pa.,

The Helfferich Brothers Scholarship, established by Randolph G. Helfferich, '29, Reginald H. Helfferich, '28, Cyril C. Helfferich, '24, and Donald L. Helfferich, 21, the income to be awarded to students who have demonstrated qualities of leadership on the athletic field and in the classroom,

The Nora Shuler Helfferich Scholarship, founded to honor Nora Shuler Helfferich, '93, by her daughter-in-law, Anna Knauer Helfferich, '20, the income to be awarded to needy and deserving women students,

The William Ursinus Helfferich Scholarship, founded by Christ Reformed Church, Bath, Pa., on the twenty-fifth anniversary of the ministry of their pastor, and increased by later gifts,

The William A. Helfferich Scholarship, founded by the Rev. W. A. Helfferich, D.D., of Fogelsville, Pa.,

The George W. and Francis R. Hench Scholarship, founded by the Rev. S. M. Hench, D.D., of Trappe, Pa., in memory of his parents,

The Mattie B. Hench Scholarship, founded by Mrs. Mattie B. Hench of Trappe, Pa.,

The Joseph H. Hendricks Memorial Scholarship, founded in memory of the Rev. Joseph H. Hendricks, D.D., for forty-three years (1862-1905) pastor of Trinity Church, Collegeville, and for eighteen years (1887-1905) a Director of Ursinus College, by his friend, Jacob P. Buckwalter, of Macon, Georgia,


The Hilltown Scholarship, founded by the Hilltown and Dublin charge of the Reformed Church in the United States, Bucks County, Pa.,

The Freeland G. Hobson Scholarship, founded under the will of Freeland G. Hobson, LL.D., '76, of Collegeville,

The Edward W. Hocker Scholarship, founded by Margaret Hocker Hoover, '24, in memory of her father, the late Edward W. Hocker,

The Esther I. Hughes Scholarship, established in memory of Esther I. Hughes, '23, by some of her friends,

The Hunter Scholarship, founded by J. Harley Hunter, '23, in memory of his parents, Reuben Brower Hunter and Anna Dunlap Hunter,
The Joseph and Enoch Isenberg Scholarship, founded by Dorothy Isenberg, of Hollidaysburg, Pa., 1,000.00

The Mary E. and James M. S. Isenberg Scholarship, founded by Paul H. Isenberg, '21, Lillian Isenberg Bahney, '23, and Helen Isenberg Ballantyne, '24, in memory of their parents, 4,405.00

The Jefferson Medical College Scholarship, founded by Lewis Cass Scheffey, M.D., Sc.D., L.H.D. to aid students who plan to enter Jefferson Medical College, 5,000.00

The Saint John's, Orwigsburg, Scholarship, founded by the congregation of Saint John's Reformed Church, Orwigsburg, Pa., the Rev. D. R. Krebs, D.D., '02, pastor, 1,000.00

The Johnson Scholarship, founded in memory of J. Howard Johnson, '94, and his wife, Myra, by Mrs. Ella J. Johnson, 500.00

The Keeley Scholarship, founded by Joseph Keeley, of Spring City, Pa., 1,000.00

The Dr. George W. Kehl Scholarship, established by Ada M. Fisher, '13, in memory of her uncle, 1,450.00

The Kelker Scholarship, founded by Rudolph F. Kelker, of Harrisburg, Pa., 1,000.00

The W. Sherman Kerschner Scholarship, established in memory of W. Sherman Kerschner, '09, by his family and friends, the income to be used to aid a pre-ministerial student, 3,198.00

The J. Edward Klingaman Scholarship, founded by the Rev. J. Edward Klingaman of Winchester, Va., 20,837.02

The Francis Kready Scholarship, founded by Francis Kready, of Lancaster, Pa., 2,000.00

The Rev. Dallas R. Krebs, D.D., and Mrs. Bessie M. Hoffman Krebs Scholarship, for the aid of a ministerial student, founded under the will of Bessie M. Hoffman Krebs, 798.10

The Franklin W. Kremer Memorial Scholarship, founded by the Rev. F. W. Kremer, D.D., with gifts amounting to $500, and completed by the Sunday School of the First Reformed Church, of Lebanon, Pa., in grateful memory of his thirty-eight years' pastorate, 1,000.00

The Krusen Scholarship Fund, founded by Mabel K. Krusen, '10, and David E. Krusen, M.D., '45, in memory of Edward A. Krusen, M.D., member of the Board of Directors, 1903-1923, and Francis T. Krusen, M.D., '10, member of the Board of Directors, 1930-1935, 5,980.00
The LeRoy Boyer Laubach Scholarship, founded in memory of LeRoy Boyer Laubach by his mother, Mrs. M. B. Laubach, of Philadelphia, Pa., 2,000.00

The Dr. Henry P. Laughlin Special Award Fund, for achievement and service, established by Henry P. Laughlin, M.D., ’38, the award to be made for professional achievement, merit or service, and granted according to criteria to be established by the Board of Directors of the College, 1,540.00

The Douglas C. Leander Scholarship, established by alumni and friends, in memory of Douglas C. Leander, ’50, the income to be awarded to students who demonstrate leadership in the classroom and on the athletic field, 1,530.00

The Leinbach Scholarship, founded by Irwin S. Leinbach, ’29, M.D., ScD., 3,850.00

The Sarah J. Leiphart Scholarship, founded under the will of Sarah J. Leiphart, of York, Pa., 9,842.81

The Lindback Scholarship, established by gifts from The Christian R. and Mary F. Lindback Foundation, 6,000.00

The Longacre Scholarship, founded by Walter Force Longacre, Class of 1914, in memory of his parents, Emanuel Longacre, member of the Board of Directors of Ursinus College from 1869 to 1894, and his wife, Caroline Everhart Force, whose eight children attended Ursinus Academy, and three of whose children were graduated from Ursinus College, 5,900.00

The MacDade, Abbott & Co. Scholarship, established by William Henry MacDade, Temple W. Abbott, and John J. Libhart, the income to be awarded to deserving students, 2,500.00

The Francis Magee Scholarship, founded by the late Francis Magee, of Philadelphia, 1,000.00

The Aaron E. March Scholarship, founded by Aaron E. March, of York, Pa., 2,000.00

The Markley Scholarship, founded by Dr. Mary E. Markley, ’02, in memory of her father, the Rev. A. B. Markley, D.D., ’76, 4,500.00

The Saint Mark’s Scholarship, founded in 1918 by the members of Saint Mark’s Reformed Church, Lebanon, Pa., in honor of their pastor, the Rev. I. Calvin Fisher, D.D., ’89, and his wife, Eva S. Fisher, and in celebration of their twenty-fifth anniversary in the pastorate of Saint Mark’s Church, 1,000.00

The Charles D. Mattern Scholarship, established in memory of Charles D. Mattern, Ph.D., ’30, Professor of Philosophy at Ursinus College, 1937-1964, by alumni and friends, the income to be awarded to students who demonstrate leadership in the classroom and on the athletic field, 13,034.53

The James W. Meminger Scholarship, founded by the congregation of Saint Paul’s Reformed Church, Lancaster, Pa., in honor of the Rev. James W. Meminger, D.D., ’84, former pastor, 1,000.00
The Meyran Scholarship, founded by Louis A. Meyran and his wife, Marie H. Meyran, of Grace Reformed Church, Pittsburgh, Pa., 2,000.00

The Miller Scholarship, founded by Elmer E. and Erma Miller Steinfbrunn, of Orwigsburg, Pa., in memory of Mrs. Steinfbrunn's parents, Alfred M. and Pauline Miller, 1,000.00

The William David Miller Scholarship, founded by Mr. and Mrs. William David Miller, Jr. of Philadelphia, Pa., 1,000.00

The Vernon W. Morgan Scholarship, established by Vernon W. Morgan, Sr., the income to be awarded to deserving students who have demonstrated leadership in the classroom and on the athletic field, 3,050.00

The D. Charles Murtha Scholarships, founded under the will of D. Charles Murtha, '86, 19,949.32

The Annie Neff Scholarship, founded under the will of Annie Neff, of Alexandria, Huntingdon County, Pa., 1,500.00

The Martin B. Neff Scholarship, founded by Annie Neff in memory of Martin B. Neff, of Alexandria, Pa., and in recognition of his life-long interest in Ursinus College, 1,800.00

The Carolina E. Louden Niblo Scholarship, founded under the will of James Martin Niblo, D.D., 5,000.00

The Noss Scholarship, founded by Charles H. Noss, of York, Pa., in memory of his parents, William S. Noss and Emma S. Noss, 15,150.00

The Ralston Oberholtzer Scholarship, founded under the will of Ralston G. Oberholtzer, '25, of New York City, 2,000.00

The George Leslie Omwake Scholarships, founded by several hundred alumni and other friends of the sixth president of Ursinus College, 100,330.00

The Omwake Memorial Scholarship, founded by W. T. Omwake, Esq., of Waynesboro, Pa., as a memorial to his parents, Henry and Eveline Beaver Omwake, 2,000.00

The Paisley Scholarship, founded in honor of Mrs. Carrie Strassburger Paisley, of Trinity Reformed Church, Philadelphia, 2,000.00

The Ellwood and Ada Paisley Scholarship, established by Ellwood S. Paisley, '13, and his wife Ada, the income to be used for scholarships to deserving students for pursuing courses in medicine or the other sciences, 4,500.00

The Harry E. Paisley Scholarship, founded by Harry E. Paisley, LL.D., of Trinity Reformed Church, Philadelphia, 7,028.75

The John and Margaret Paisley Scholarship, founded by John and Margaret Paisley, of Garden City, Long Island, N. Y., 6,000.00
The Saint Paul’s, Lancaster, Scholarship, founded by the congregation of Saint Paul’s Reformed Church, Lancaster, Pa., the Rev. T. A. Alspach, D.D., ’07, pastor, 2,000.00

The Pascucci Scholarship, founded by the Class of 1952 in memory of Eugene Anthony Pascucci, ’52 (1928-1954), 6,356.80

The Pennsylvania Female College Memorial Scholarship, founded by the Glenwood Association, a body of former students of the Pennsylvania Female College, in recognition of the earlier work done at Collegeville for the higher education of women, 3,000.00

The Neri F. and Serena J. Peters Scholarship, founded in memory of the Rev. and Mrs. Neri F. Peters by their children, 2,000.00

The Raynor-Fetterolf Scholarships, founded by Alves L. Raynor and his wife, Helen Miller Raynor, ’11, in memory of their son, Eugene Richard Raynor (1926-1940), 97,481.82

The Richter Scholarship, established in memory of H. Willard Richter by his wife, Mary Oberlin Richter, ’29, 1,277.75

The Ritter Scholarship, established by R. A. Ritter, LL.D, of Wyncote, Pa., 19,361.00

The Jesse W. Roberts Memorial Scholarship, founded by Charles V. Roberts, ’32, in memory of his father, 12,047.55

The Silas H. Rush Scholarship, founded in memory of her parents, Mr. and Mrs. Silas H. Rush, by Mrs. E. R. Hoffman, of Philadelphia, 1,000.00

The Scheer Memorial Scholarship, founded under the will of Thekla Ida Scheer, in memory of her father, the Rev. George A. Scheer, D.D., ’76, the income to be used to aid students who plan to enter the Christian ministry, 5,000.00

The Adam E. and Dorothy T. Schellhase Scholarship, founded by Dorothy T. Schellhase, 2,354.72

The Jacob S. and Lucinda Schwartz Scholarship, founded by the bequest of Jacob S. Schwartz, of Hanover, Pa., 1,000.00

The Schwenksville Community Scholarship, founded by the Citizens of Schwenksville, Pa., 1,927.00

The Shaffer Scholarship, established by Faith United Church of Christ, Philadelphia, Pa., in honor of their pastor, the Rev. William R. Shaffer, D.D., ’23, and his wife, Katherine Stevenson, Shaffer, ’25, 12,500.00

The William R. Shaffer Scholarship, established in honor of William R. Shaffer, S.T.M., D.D., ’23, by his family and friends, the income to be awarded to a deserving Christian student preferably from Faith United Church of Christ, Philadelphia, Pa., 9,722.34
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
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<tr>
<td>The Jocelyn Xander Sheeder Scholarship</td>
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<td>The Nathan Spangler Scholarship</td>
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<td>The Stoudt Scholarship Fund</td>
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<td>The G. Leicester Thomas Scholarship</td>
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<td>The Trinity Bible School Scholarship</td>
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<td>The Trumbower Memorial Scholarship</td>
<td>5,000.00</td>
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Note: Amounts listed are in USD.
The Vance Scholarship, founded by the Class of 1949 in memory of John Robert Vance, '49 (1925-1954), 9,256.25

The Abraham Wagner Scholarship, founded under the will of Abraham Wagner, of the Robinson Church, Berks County, Pa., 1,000.00

The George A. Walker Scholarship, founded under the will of George A. Walker, of Philadelphia, Pa., 10,000.00

The Wehr Scholarships, founded in honor of the Rev. Calvin P. Wehr, D.D., '95, and Agnes E. Wehr, by their daughter, Florence A. Wehr, 13,000.00

The John Wiest Scholarship, founded in memory of John Wiest, a member of the original Board of Directors of Ursinus College, by his son, Howard M. Wiest, '92, 14,619.81

The George Wolff Scholarship, founded by the Rev. George Wolff, D.D., of Myerstown, Pa., 1,000.00

The Women's Guild of the Evangelical and Reformed Church Scholarship, the income to provide scholarships for a worthy student or students in their sophomore year of college or beyond, preparing for a church-related vocation, 10,000.00

The Young Scholarships, founded under the will of Mary Lantz Young, of Philadelphia, Pa., 16,000.00

The Dr. and Mrs. Isaac Zyner Memorial Scholarship, founded under the will of Jennie H. H. Wieder Zyner, 30,230.34
THE EDUCATIONAL PROGRAM

THE DEPARTMENTAL SYSTEM is employed in the organization and administration of instruction. By this system, the courses of instruction are offered in thirteen departments: Biology, Chemistry, Classics, Economics, English, German, Health and Physical Education, History, Mathematics, Physics, Political Science, Psychology, Romance Languages. The adviser is the medium of communication between the Faculty and students of his department. The approval of the adviser is necessary before a student may register for or enter upon any course of study, or discontinue any work.

A student, at matriculation, chooses the subject of major concentration he desires to pursue, and with the advice and consent of the adviser selects his studies for the year and reports his selection to the Dean on a blank provided for the purpose. A student who is uncertain as to his future plans, and therefore undecided as to his major field, may choose to be registered in an "Undesignated major" for the first year, but he must designate the broad choice of Humanities, Social Sciences, or Natural Sciences.

SUMMER READING PROGRAM

IN ORDER to stress the importance of good reading and to develop the student's appreciation of good writing, the Faculty has approved the Program in Summer Reading which is recommended of all students. It begins with the summer preceding the freshman year and continues through succeeding summers. The paper-bound volumes assigned for reading are mailed to the student. These books are discussed formally and informally during the early weeks of the first semester.

CHOICE OF STUDIES

THE WORK of every student is composed of three parts: (1) courses which are, in the judgment of the Faculty, essential to a liberal education and are required of all students before graduation; (2) courses required by the department in which the student is registered, and which comprise his major field of concentration; (3) elective courses chosen by the student as a means of further individualizing his course of study, and adapting it to his own intellectual tastes and future purposes.

REGISTRATION

ALL STUDENTS must register at the beginning of the Fall Term for the work of the Fall and Spring Terms. Changes in course of study may be made during the first week of a term with the written approval of the adviser. After the first week, courses may be added or dropped only by joint permission of the Dean, the adviser, and the instructors involved. A student who withdraws from a course without such permission will receive the grade of F. A fee of one dollar is charged for the registration of students on days other than those appointed in the College Calendar.
In registering, the student must present to his department adviser his complete list of studies, both prescribed and elective, for the whole year. Courses prescribed as degree or departmental requirements or to satisfy conditions must take precedence over and be scheduled before elective courses. When a student changes to another department, he must fulfill the requirements of that department in order to be graduated.

REQUIREMENTS FOR GRADUATION

The requirement for the degree of Bachelor of Arts or Bachelor of Science is the completion of one hundred and twenty semester hours which must include all the courses required by the Faculty of all students for graduation and the courses required by the department to which the student belongs. At least sixty semester hours of this work must be completed at Ursinus College, and this must include the work of the senior year.

A regular student may not take in any one term fewer than twelve semester hours of work. The normal maximum for a term is five courses or fifteen semester hours. Two semester hours above the normal maximum may be scheduled with the approval of the adviser, provided the student's average for the preceding term is eighty or higher. Three semester hours above the normal maximum may be scheduled for the preceding approval of the adviser, provided the student's average for the preceding term is eighty-five or higher (Exception: Engineering and Physical Education majors are permitted to schedule in each term three hours more than the normal maximum).

All fourth-year students shall enroll as full-time students. They must carry a minimum load of fourteen (14) semester hours in each of the last two semesters.

PRESCRIBED COURSES (REQUIRED OF ALL CANDIDATES FOR GRADUATION PRIOR TO 1968)

- English Composition 1, 2
- English Composition 3, 4
- English Literature 3, 4 or 17, 18 or 19, 20
- History 1, 2
- Foreign Languages 1, 2 and 3, 4 or equivalent
- Biology 3, 4 or Chemistry 1, 2; Geology 1, 2 or Physics 1, 2
  (if prerequisites are satisfied)
- Economics 3, 4 or Political Science 1, 2
- Psychology 1
Philosophy (one semester)

Physical Education 101, 2 (No semester hour credit. Not required of students in the Physical Education Department).

All requirements for graduation must be satisfied before the end of the last day of examination week preceding commencement. Each student must bear responsibility for fulfilling his requirements for graduation.
THE URSINUS PLAN

A Pivotal, Radial, and Complementary Program of Liberal Education in a Four-Year College

I. Curricular Program

A. Divisional Groupings of Course Offerings
   Language Division
   Humanities Division
   Social Science Division
   Science and Mathematics Division

1. Pivotal Courses. Breadth in Liberal Education. Selection of required representative courses from each Division.

2. Radial Courses. Further breadth in Liberal Education. Selection of Elective courses assuring distribution among Divisions not related to the Student’s Major.

3. Departmental Courses and Departmental Honors. Depth in Specialty.

B. Senior Symposium and College Honors.
   1. Symposium. Open to all Seniors. Students are enabled to integrate their particular departmental interests collectively in dealing with current issues.
   2. College Honors. Open to exceptional Students. Guided independent study.

II. Complementary Program

A. Cultural Activities
B. Student Activities
C. Physical Activities

THE URSINUS PLAN

In the fall of 1966, students at Ursinus College will begin their participation in THE URSINUS PLAN, subtitled “A Pivotal, Radial, and Complementary Program of Liberal Education.” The College has always placed emphasis upon a broad liberal arts background, and the new URSINUS PLAN will provide even greater breadth, depth and freedom of choice. Learning will take place beyond the classroom, the lecture hall, and the laboratory; challenging and varied perspectives on learning
itself will be revealed by new groupings of related disciplines and course offerings.

Implicit in the URSINUS PLAN are four divisions, all of which are vital to the Liberal Arts student, who must learn the importance of pursuing and discerning truth through several methods of inquiry. These divisions are Language, Humanities, Social Science and Mathematics. Thus, all students at Ursinus College select certain Pivotal Courses, at least one from each division. These Pivotal Courses introduce the student to the characteristic subject matter and intellectual viewpoint of the particular division. In addition, each student will elect a minimum of twelve credit hours of Radial Courses, chosen from a division or divisions outside the area of his departmental major. These Radial Courses add further breadth to the understanding gained from the Pivotal courses.

All students are also encouraged to participate in complementary activities, which, while not required, are nonetheless understood to be an integral part of the learning process. These activities provide many opportunities for social, educational, and cultural enrichment.

Finally, under the URSINUS PLAN all students may participate in the Senior Symposium, which provides them with an opportunity to integrate their various departmental specializations into the context of the world into which they are to be graduated, a world in which no one perspective on truth can be said to deal adequately with all the issues which they will encounter in these complex times. The Senior Symposium, with its unique emphasis upon guided independent study and interdisciplinary analyses of problems, will heighten the perspectives of all who participate.

Exceptional students will be given a further opportunity to pursue special interests in depth through the present program of Departmental Honors, as well as through the projected All-College Scholars' Program, which will be open to Sophomores and Juniors.

Thus, in various ways and at several levels, THE URSINUS PLAN will provide the industrious and the gifted student alike with a course of study in which will be found all kinds of learning, general and specialized, required and elective, theoretical and practical. The Plan opens the way to an education which is truly liberal and establishes a firm basis for continuing intellectual growth.

PIVOTAL COURSES

Each student, regardless of his choice of major and of his Departmental Requirements, will be required to take the following Pivotal Courses:
LANGUAGE DIVISION:

Unless exempt in the manner prescribed, every student is required to take ENGLISH COMPOSITION 1, 2 and TWO FULL YEARS OF A FOREIGN LANGUAGE (to the 3, 4 level). FOREIGN LANGUAGE choices include courses in Classical Languages, Germanic and Slavic Languages, and Romance Languages.

Exemption from either English Composition or two years of a foreign language will be granted to those students who give evidence of having achieved proficiency in English Composition or in a foreign language comparable to that expected of students engaged in the same studies at Ursinus College. Proficiency will be measured by scores attained in Advanced Placement Examinations or the appropriate Achievement Test of the College Entrance Examination Board, or by an examination devised by the departments concerned. Each department will determine the level of proficiency required.

HUMANITIES DIVISION:

Every student is required to take one of the following full-year sequences of courses: HISTORY 1, 2; PHILOSOPHY 101, 102; WORLD LITERATURE*; or THE BIBLE AND WESTERN CIVILIZATION*.

SOCIAL SCIENCE DIVISION:

Every student is required to take one of the following full-year sequences of courses: PSYCHOLOGY 1, 8; ECONOMICS 3, 4; POLITICAL SCIENCE 1, 2; SOCIOLOGY 1, 2; or an INTEGRATED SEQUENCE OF COURSES IN THE SOCIAL SCIENCES*.

SCIENCE AND MATHEMATICS DIVISION:

Science Majors are required to take the INTEGRATED PHYSICAL SCIENCE COURSE, CMP 267 1, 2†. Mathematics Majors may elect to take CMP 267. Non-Science Majors (and Mathematics Majors who do not elect CMP 267) are required to take one of the following full-year sequences of courses: BIOLOGY 3, 4; CHEMISTRY 1, 2; PHYSICS 1, 2; GEOLOGY 1, 2; or an INTEGRATED SCIENCE COURSE FOR NON-SCIENCE MAJORS*.

†The course is the result of one year of planning followed by a one-year pilot course and two years of an experiment during which the course was open to the full complement of students. Approval has been given by the Faculty for inclusion in the URSINUS PLAN. See description on page 105.
RADIAL COURSES IN NON-MAJOR DISCIPLINES

Every student shall elect twelve (12) credit hours of Radial Courses offered by one or more Departments in one or more Divisions in which his own departmental major is NOT found. Election of Radial credit hours can be made from the following courses:

**Language Division:**
- Advanced English Composition
- Classical Languages
- Germanic and Slavic Languages
- Romance Languages
- Public Speaking
- Dramatic Arts*

**Humanities Division:**
- English Literature
- Foreign Literature
- History
- Music
- Philosophy-Religion
- Fine Arts*

**Social Science Division:**
- Psychology
- Economics
- Political Science
- Sociology
- Geography
- Anthropology*

**Science and Mathematics Division:**
- Biology
- Chemistry
- Mathematics
- Physics
- Geology
- Health & Phys. Ed. 32m 32w

*Here and elsewhere courses marked (*) have been recommended by the Faculty of Ursinus College, but may not be offered in 1966-67.

DEPARTMENTAL COURSES
(See Departmental Requirements for each major)

DEPARTMENTAL HONORS

Students may be graduated with special honors in departments of study in which they have shown exceptional proficiency, subject to the following regulations:

1. To be admitted to candidacy for Departmental Honors a student must have the endorsement of the Chairman of the Department in which he wishes to pursue the program, file the written approval in the Dean's Office and register during the Spring pre-registration period of his Junior year.

2. A candidate must have a minimum cumulative average of B− in all courses taken throughout the first three years of college, and a minimum average of B+ in all courses taken in the department in which he seeks honors.

3. Upon consent of the adviser a candidate may be exempt from a three hour course in his own department.

4. The Project Adviser will assign a grade for the project and may recommend Departmental Honors. If the candidate receives a passing
grade, he will earn three semester credits toward graduation, even though his work may not be recommended for Departmental Honors.

5. In order that the Faculty may consider the awarding of Honors, the candidate shall deposit his completed thesis, together with a written recommendation from his adviser, in the Office of the Dean by May 1 preceding the Convocation at which the Departmental Honors are to be awarded.

SENIOR SYMPOSIUM

The Senior Symposium is an elective, one-year course open to all fourth-year students. Each semester carries three semester hours credit, and the first semester is prerequisite to the second.

The Symposium is a cooperative teaching enterprise with an emphasis on discussion and dialogue between students and faculty, and among faculty and visiting specialists from different disciplines.

In order to provide breadth and background for all members of the Symposium the first semester's work consists entirely of independent reading and periodic conferences with a Tutor. Selected reading conference discussions, and an oral examination comprise the means whereby students are graded for their first semester's participation in the Symposium. The second semester of the Symposium seeks depth by concentrating on two or three major issues confronting Americans today. To probe such issues the Symposium meets twice a week for one and one-half hours. Approximately one-half of this time is devoted to lectures, panels, and question periods. In the remaining time Symposium members meet in small discussion groups to further their inquiry into the issues at hand. Second semester grades are based on the student's notebook of informed reactions to the lectures, and on a term paper or oral examination covering the major emphases of the second semester sessions.

ALL-COLLEGE SCHOLARS' PROGRAM*

As now planned, a program of guided independent study would offer exceptional upperclassmen limited course exemptions as well as graduation credits for their study. Scholars would be chosen for their exceptional academic records at Ursinus College, and would be permitted to carry out their independent studies as electives together with those prescribed studies associated with their departmental major programs.

*As in the case of projected courses in THE URSINUS PLAN, the All-College Scholars' Program has been recommended by the Faculty of Ursinus College but the details are not yet complete.
COMPLEMENTARY PROGRAM

Complementary Cultural Activities

Every student is encouraged to participate in cultural activities at Ursinus College. The activities are planned in a four-year cycle of emphasis. They include the FORUM series, the SUMMER READING program, academic CONVOCATIONS, and related activities such as FIELD TRIPS to museums, and other complementary activities.

Complementary Student Activities

Every student is encouraged to participate in those student activities which provide opportunities for integrating perspectives and content of several disciplines and courses within the four divisions. While students are not restricted to participation in activities related to their divisional or departmental fields, the following listing will assist students in seeing those relationships:

Language Division:
- French Club
- German Club
- Spanish Club
- Debating Team
- College Bowl

Humanities Division:
- English Club
- YM-YWCA
- Meistersingers
- Messiah Chorus
- Chapel Choir
- Ursinus College Band
- Curtain Club
- Ursinus Weekly Staff
- Lantern Staff
- Ruby Staff

Social Science Division:
- Economics Club
- International Relations Club
- Intercollegiate Conference on Government
- Focus Staff
- Psychology Club
- Pennsylvania State Education Association
- Men's Student Government Association
- Women's Student Government Association

Science and Mathematics Division:
- Beardwood Chemical Society
- Brownback-Anders Pre-Medical Society
- Mathematics Club

Complementary Physical Activities

Every student is required to take PHYSICAL EDUCATION 101, 102, unless he is a Physical Education Major or is otherwise excused. In addition every student is encouraged to participate in the activities of organizations such as the Outing Club, and to engage in intramural as well as varsity sports.
COURSES OF INSTRUCTION

IN DESIGNATING COURSES of study, odd numerals are employed to indicate the courses offered during the Fall Term and even numerals the work of the Spring Term. Exceptions to this regulation are noted. Summer Term offerings are not announced in this catalogue, but so far as possible, courses will be offered to meet the needs of students who register for the Summer Term.

The credit value of each course, expressed in semester hours, is printed in italics. The hours per week are given in the definition of the course.

BIOLOGY

PROFESSOR WAGNER
ASSOCIATE PROFESSOR HOWARD
PROFESSOR VAN DAM
MRS. SHINEHOUSE
MR. RIFFE

The program of this department aims, through the study of a number of aspects of biology, to foster the scientific attitude in its students, to encourage and maintain a critical and enthusiastic interest in the subject of biology for its own sake, and to provide a background of fundamental courses sufficient for its majors to qualify for teacher certification in the secondary schools and for pre-professional preparation in the several fields of the health services. The department prepares students for advanced work in the biological sciences.

Students majoring in Biology must take a minimum of 28 semester hours in Biology, including Biology 103, 104; 7, 8; 19; 21 or 22. The additional electives may be selected from Biology 6, 17, 18, 20, 21, 22, 23, 24, 25, 26. This department also requires its majors to take CMP 267-1, 2. Those planning to pursue graduate studies in Biology are advised to elect Mathematics 31 (Calculus), and/or Mathematics 13, 14 (Statistics), and/or Mathematics 41 (Probability), before completing their third and fourth years.

Teaching This program (major in Science, concentration in Biology) is designed for prospective secondary school teachers whose principal interest is Biology and who wish to be certified in Biological Science, Science, and General Science.

The following courses are prescribed by the Department of Biology: Biology 103, 104, 6, 17, 18, 19, 21, 22, Chemistry 1, 2 or Physics 1, 2, Mathematics 29, 30, History 16,

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education.

For sequence of courses, see Major in Science, Concentration in Biology, p. 109.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP 267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See p. 105.

3. General Biology (Zoology)

Introduction to principles of structure, function, and development of living things as revealed in a study of selected animal types. Two hours of lecture; one two-hour laboratory period per week. Three semester hours.

4. General Biology (Botany)  
DR. HOWARD
Introduction to principles of structure, function, and development of living things as revealed in a study of selected plant material. Two hours of lecture; one two-hour laboratory period per week. Three semester hours.

Courses 3 and 4 of General Biology are not open to Biology majors but may be taken by other students to satisfy the college requirements for graduation.

103. General Biology (Zoology)  
DR. VAN DAM
A study of general principles of structure, function, and development of animal cells and organs, and of representative animal types. Prerequisite, Chemistry 101, 102, or the equivalent. Two hours of lecture; two two-hour laboratory periods per week. Four semester hours.

Courses 103 and 104 are the basic introductory courses prescribed for all biology majors and for any others who are planning to meet the various pre-professional requirements in biology.

6. Advanced Botany  
DR. WAGNER
The course is designed to give the student a more detailed knowledge of the vascular plant groups, stressing the principles of taxonomy, ecology, and plant geography. Lectures and discussions followed by field and laboratory work. Prerequisite, course 104. Two hours of lecture; one three-hour laboratory period per week. Three semester hours.

Biology 6 is required for those who intend to apply for certification in Pennsylvania as teachers of biology and for pre-veterinarian students.

7. Vertebrate Anatomy  
DR. HOWARD
The comparative anatomy and relationships of the chordates. A survey of the lower chordates and a detailed consideration of the external anatomy, the skeletal and muscular systems of the lamprey, dogfish, necturus, alligator, pigeon, and cat. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

8. Vertebrate Anatomy  
DR. HOWARD
A continuation of course 7 covering the digestive, circulatory, uro-genital and nervous systems of the lamprey, dogfish, necturus, alligator, pigeon, and cat. Prerequisites Biology 103, 104, 7. One hour of lecture; two three-hour laboratory periods per week. Four semester hours.

17. Human Anatomy and Physiology  
DR. VAN DAM, MRS. SHINEHOUSE
A study of the structure, function and development of the muscular, skeletal, and nervous systems. One hour of lecture; one two-hour laboratory period per week. Two semester hours.
18. **Human Anatomy and Physiology**
DR. VAN DAM, MRS. SHINEHOUSE
A study of the structure, function, and development of internal and sense organs. Prerequisite, Biology 3 or 103. One hour of lecture; one two-hour laboratory period per week. **Two semester hours.**

19. **Embryology**
DR. WAGNER
Gametogenesis, early development, histogenesis and organogenesis of selected animal types, especially the chick, pig, and human. Prerequisites, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. **Four semester hours.**

20. **Histology**
DR. WAGNER
Structural and developmental study of tissues and organs of the vertebrate body. Introduction to histological technique. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. **Four semester hours.**

21. **Hereditiy**
DR. WAGNER
Lectures and discussion dealing with the principles of plant and animal genetics, and the consideration of factors pertaining to human inheritance. Assigned readings and papers. Prerequisite, Biology 3, 4 or 103, 104. Three hours per week. **Three semester hours.**

22. **Evolution**
DR. WAGNER
Lectures and discussions explaining the history of living things in space and time. Assigned readings and papers. Open to all students. **Two semester hours.**

23. **Seminar**
STAFF
Papers and reports concerned with selected phases of biological knowledge. Topics to be chosen by the instructor in charge. Prerequisites, Biology 7, 8; or 19, 20. Open to fourth-year majors in biology. One hour per week. **One semester hour.**

24. **Seminar**
STAFF
A continuation of course 23. Prerequisites, Course 7, 8; or 19, 20. Open to fourth year majors in biology. One hour per week. **One semester hour.**

*25. **General Physiology**
DR. VAN DAM
A study of physical-chemical aspects of cellular processes, and principles of related experimental techniques. Prerequisites, Biology 103, 104; Chemistry 101, 102 (107, 108 recommended); Physics 1, 2. Two hours of lecture; one four-hour laboratory period per week. **Four semester hours.**

Enrollment is limited to 15 students in each term. A minimum enrollment of six students is required for course to be offered.

*26. **General Physiology**
DR. VAN DAM
A continuation of Biology 25. Prerequisites, Biology 7, 8, 25. Two hours of lecture; one four-hour laboratory period per week. **Four semester hours.** A minimum enrollment of six students is required for course to be offered.

*This course is not offered in 1966-1967.*
The courses of study offered by the Chemistry Department are (1) to provide a course in general chemistry which will satisfy the requirements of the College for a laboratory science; (2) to provide training in chemistry for students planning to teach; (3) to provide more than minimum training for students planning to become technicians in medical laboratories, and for pre-dental and pre-medical students; (4) to offer sufficient specialized training in chemistry beyond the basic courses that will enable a graduate to enter a career as a professional chemist; and (5) to prepare students for graduate training.

Students whose principal interest is Chemistry will select a degree of concentration consistent with their vocational objective.

One of the following programs must be selected:

I. Chemistry Major

This program is approved by the American Chemical Society for undergraduate professional training in Chemistry.

The following courses are prescribed: CMP 267-1, 2; Chemistry 3, 4, 5, 7, 8, 9, 10, 11; Mathematics 31, 32; Physics 4 or Biology 3, 4; German 3, 4. The following are recommended as electives: Chemistry 6, 12, 21, 30; Physics 7, 8; German 11, 12.

II. Healing Arts

This program is designed for degree-seeking students planning for admission to professional schools in the healing arts (medicine, dentistry, osteopathy, veterinary medicine, etc.) who are specializing in Chemistry in college.

The following courses are prescribed: CMP 267-1, 2; Chemistry 3, 7, 8, 9, 10; Biology 103, 104.

III. Teaching

This program (major in Science, concentration in Chemistry) is designed for prospective secondary school teachers whose principal interest is Chemistry and who wish to be certified in Physical Science, Science, and General Science.

The following courses are prescribed by the Department of Chemistry: CMP 267-1, 2; Biology 3, 4; Chemistry 3, 7, 8; 9, 10 or 11, 12; History 16; Physics 11, 12. A student presenting six credits in general chemistry may satisfy the prerequisite for an advanced course by passing a written examination set by the faculty of the Department.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See p. 105.

1. General Chemistry

A development of the facts, theories, and methods of chemistry as applied to solids, liquids, gases and solutions. Related laboratory work is given. Chem. 1 does not satisfy the prerequisite requirements for advanced chemistry courses. Two hours of lecture and three hours of laboratory per week. Three semester hours.
2. General Chemistry  
DR. SCHULTZ
A continuation of Course 1. Prerequisite, Chemistry 1. A study of the properties and reactions of the elements. A study of descriptive inorganic and organic chemistry based on principles of equilibrium and structure. Chemistry 2 does not satisfy the prerequisite for advanced chemistry courses. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

*101. General Chemistry  
DR. STAIGER
A study of the basic theories and laws of chemistry covering the common elements of the periodic system, their structures, interactions and energy relationships. This course is accompanied by work in the mathematical solution of chemical problems and is the prerequisite to advanced chemistry courses. Three hours of lecture and recitation and three hours of laboratory per week. *Four semester hours.*

*102. General Chemistry  
DR. STAIGER
A continuation of Course 101. Prerequisite, Course 101. A study of oxidation states of the common elements, chemical equilibrium, solubility product and pH. The laboratory experimentation deals with the qualitative separation and characterization of the common cations and anions. Three hours of lecture and recitation and three hours of laboratory per week. *Four semester hours.*

3. Quantitative Analysis  
MISS BARTH
A study of commonly used methods of gravimetric and volumetric analysis. Emphasis is placed on the theory of equilibrium developed in Course 102. Three hours lecture and three hours of laboratory per week. *Four semester hours.*

4. Inorganic Chemistry  
MISS BARTH
Selected topics in the descriptive chemistry of the elements in terms of modern bonding theory. The laboratory work involves the application of special techniques to the synthesis of representative inorganic compounds. Three hours of lecture and three hours of laboratory per week. Prerequisite, Course 9. *Four semester hours.*

5. Analytical Chemistry  
MISS BARTH
An advanced course in quantitative analysis. Topics covered are non-aqueous and complexometric titrimetry, analytical separations, quantitative organic analysis and electrochemistry. Prerequisites, Courses 3 and 10. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

6. Instrumental Analysis  
MISS BARTH
A study of the principles and applications of modern instrumental analysis with particular emphasis on the chemical principles on which the methods of measurement are based. Prerequisite, Course 5. Two hours of lecture and three hours of laboratory per week. *Three semester hours.*

7. Organic Chemistry  
DEAN PETTIT
The study of the properties, synthesis, and the structure of the most important classes of the carbon compounds. Prerequisites, Courses 101, 102 or equivalent. Three hours of lecture and three hours of laboratory per week. *Four semester hours.*

8. Organic Chemistry  
DEAN PETTIT
A continuation of Course 7. Prerequisite, Course 7. Three hours of lecture and three hours of laboratory per week. *Four semester hours.*

*This course is not offered in 1966-1967.*
9. Physical Chemistry
DR. SCHULTZ
A study of the principles of chemistry. The principles of thermodynamics and quantum chemistry are used in studying the states and structure of matter. Kinetics and mechanism, equilibrium, electro-chemistry, surface chemistry, solutions, and phase rule are also studied. Related laboratory work is provided. Prerequisites, Chemistry 102, Physics 2, or CMP 267-2 and Mathematics 31. Mathematics 32 is recommended. Prerequisite, Chemistry 3. Three hours of lecture and three hours of laboratory work per week. Four semester hours.

10. Physical Chemistry
DR. SCHULTZ
A continuation of Course 9. Prerequisite, Course 9. Three hours of lecture and three hours of laboratory work per week. Four semester hours.

11. The Identification of Organic Compounds
DR. STAIGER
The classification and identification of organic compounds based on physical and chemical properties; the chemical analysis of organic functional groups and the preparation of characteristic derivatives. Two hours of lectures and six hours of laboratory per week. Prerequisite, Course 8. Four semester hours.

12. Advanced Organic Chemistry
DR. STAIGER
A study of the structures of organic molecules and their relation to the mechanism of organic reactions. Prerequisite, Courses 10 and 11. Two hours of lecture per week. Two semester hours.

20. Seminar
DR. SCHULTZ
Paper and reports in Physical Chemistry. One hour per week. Prerequisite, Course 10. One semester hour.

21. The Literature of Chemistry
DR. STURGIS
The use of books, journals, and reports in the field of chemistry. Open to third and fourth year students. Prerequisites, Course 8, German 4. One hour per week. One semester hour.

22. Seminar in Organic Chemistry
DEAN PETTIT
Reports on recent advances in Organic Chemistry. One hour per week. One semester hour.

30. Research
STAFF
Laboratory and library work with a final report. Students admitted to the course must follow the requirements for admission to Departmental Honors. Satisfactory completion of the course may result in awarding Departmental Honors. The laboratory work will be equivalent to three hours of work per week and will be conducted during the seventh and eighth semesters. Three Semester Hours.

CLASSICAL LANGUAGES
PROFESSOR DONALD BAKER
The chief objective of the Classics Department is to develop in the student accuracy in thought and verbal expression. Other objectives are to enlarge the student's perspective by introducing him to a civilization other than his own; to increase his knowledge and understanding of the literature and institutions of England and America by studying the Greek and Roman sources from which they came; to encourage in the student a mastery of two languages which are important tools in many fields.
Students majoring in Classical Languages are required to take at least 12 semester hours of Greek and 12 semester hours of Latin beyond Latin 2. In the first half of his senior year, each student must take the Seminar in Classical Studies, Greek 7. In the examination at the close of this course, he will be expected to show a satisfactory general knowledge of Greek and Roman literature, language, art, history, geography, mythology, religion, and private life. For this examination the student is expected to prepare himself (with the advice and help of the instructor) throughout his previous three years both by courses and by outside reading.

**GREEK**

1. **Beginning Greek**
   Three hours per week. *Three semester hours.*
   Course 1 may be elected by students in any major field.

2. **Intermediate Greek**
   Three hours per week. *Three semester hours.*
   Prerequisite, Greek 1 or its equivalent.

3, 4, 5, 6. **Advanced Greek**
   Readings from Homer, Thucydides, Aristophanes, and other authors depending on the preferences and capacities of those electing the course. Only one of these courses will be given in any one semester. *Three semester hours.*

7. **Seminar in Classical Studies**
   A study of selected topics dealing with the Greco-Roman world. Knowledge of Greek and Latin is a prerequisite. *Three hours per week.* *Three semester hours.*

8. **New Testament Greek**
   Three hours per week. *Three semester hours.*
   Prerequisite, Greek 2.

**LATIN**

1. **Elementary Latin**
   A study of the grammar, syntax, and vocabulary, with emphasis upon the Latin elements in English words. Reading of passages from various authors. *Three hours per week.* *Three semester hours.*

2. **Elementary Latin continued**
   *Three semester hours.*

3, 4. **Ovid, Virgil**
   Each *three semester hours.*
   Prerequisite, Latin 2 or its equivalent.

5, 6, 7, 8, 9, 10, 11, 12. **Advanced Latin**
   The instructor will arrange with students electing these courses to read authors of one period or literary type, or authors whose works may be correlated with other fields of study, e.g., philosophy, history, law. Not more than two of these courses will be given in any one semester. Each of them carries *three semester hours* credit.
   Prerequisite, Latin 4 or its equivalent.
22. Preparation for Teaching Latin  
DR. BAKER  
For third-year or fourth-year students. Three hours per week. *Three semester hours.*

**DRAFTING AND DESCRIPTIVE GEOMETRY**

1. Drafting  
MR. MARSTELLER  
Freehand lettering, use of instruments, geometric construction, orthographic projection including auxiliary views, sectioning, axonometric projection, oblique projection, intersections, developments, fasteners, dimensioning, working drawings, shop processes, reproduction methods, graphs. Six hours laboratory per week. *Three semester hours.*

2. Descriptive Geometry  
MR. MARSTELLER  
Principles of projection, problems involving the essential relations of points, lines and planes, surfaces of revolution, warped surfaces, intersections, developments. Six hours laboratory per week. Prerequisite, Drafting 1. *Three semester hours.*

**ECONOMICS**

PROFESSOR SHEARER  
ASSISTANT PROFESSOR SYMONS  
MR. BRENGLE  
ASSISTANT PROFESSOR RAFETTO  
MR. EL AZMEH

The work in the Economics Department is designed to give (1) a knowledge of economic philosophy; (2) a knowledge of the structure and functioning of our economy; (3) a suitable background for those who wish to enter business, government, or graduate school.

Students majoring in the department must take a minimum of thirty (30) semester hours of work in the department, including Courses 3, 4, 16, 21, 26, and 27. In addition, the following courses are required: History 1, 2; Mathematics 1, 2; Mathematics 13, 14; Philosophy 103 or 104 or 106; Political Science 1, 2; and Psychology 1. It is recommended that those students intending to do graduate work in economics also take Mathematics 29, 30.

3. Economic Principles  
STAFF  
Basic economic concepts, national income and its fluctuations, the money and banking system, and the role of government. Three hours per week. *Three semester hours.* Economics 3 is a prerequisite for all other courses.

4. Economic Principles  
STAFF  
Price theory, income distribution, international trade, and current economic problems. Three hours per week. *Three semester hours.* Economics 4 is a prerequisite for all other courses except Economics 3.

5. Labor Economics  
MR. RAFETTO  
Labor marketing with emphasis on employment and wage problems, economic security, and collective bargaining, including an appraisal of public policy. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

6. Corporation Finance  
MR. SYMONS  
Basic principles underlying the financing of the corporate structure. Short and long-term financing instruments. Expansion, failure, and reorganization of the corporation. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

*This course is not offered in 1967-1968*
7. **Marketing** 
Basic principles and practices involved in the physical distribution of goods and services between producers and consumers. Methods used to create place, time, and possession utility. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

**8. International Economics**
International trade theory involving classical and neoclassical concepts. Present institutional arrangements. Foreign exchange rates, balance of payments, tariffs. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

11. **Accounting Principles**
Introduction to principles and procedures underlying the periodic determination of income and of financial position; emphasis is directed toward the function of communication. Prerequisite, Courses 3, 4, or the permission of the instructor. Three hours per week. *Three semester hours.*

12. **Accounting Principles**
Principles and procedures required for the accumulation and classification of data for managerial control and for financial analysis. Prerequisite, Course 11. Three hours per week. *Three semester hours.*

13. **Public Finance and Taxation**

14. **Transportation**
Examination of the rail, highway, water, pipeline, and air transportation systems of the United States. Economic significance of transportation; pricing and regulating of transportation services; current problems. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

15. **Business Law**
Fundamental procedures governing contracts, sales, agency, bailments and negotiable instruments with emphasis on the analysis of cases. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

16. **Money and Banking**

17. **Government and Business**
Public policy toward business in the United States. Economic and legal aspects of

**This course is not offered in 1966-1967.**

**This course is not offered in 1968-1969.**
18. Industrial Organization and Management

MR. RAFETTO

Historical development of modern management practices. Principles and problems of organization, standardization, motivation, and control. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

21. History of Economic Thought

MR. RAFETTO

Development of systematic economic thinking from early Mercantilism through the Physiocrat, Classical and Neo-Classical schools. Contrasts the thought, policy, and practices of the past with the present. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

26. Intermediate Economics I (Micro-economics)

DR. SHEARER

Advanced study of price theory and income distribution. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

27. Intermediate Economics II (Macro-economics)

DR. SHEARER

Measurement of economic fluctuations, their causes, governmental policies of stabilization and growth, and forecasting. Prerequisite, Courses 3, 4. Three hours per week. Three semester hours.

28. Comparative Economic Systems

MR. RAFETTO

Analysis of the Capitalist, Socialist, Communist, Fascist and cooperative economic systems. Economic policies and problems of the United Kingdom, U.S.S.R., Communist China, Yugoslavia, and India are reviewed. Prerequisite Courses 3, 4. Three hours per week. Three semester hours.

30. Seminar in Economics

STAFF

Preparation, presentation, and discussion of reports on selected topics in the field of economics. Open to fourth year departmental majors. One hour per week. One semester hour.

31. Intermediate Accounting

MR. BRENGLE

An intensive study of recording and reporting for units of economic activity with emphasis directed to the establishment of controls through the use of forecasts, budgets and standard costs, and to the problems of asset valuation. Prerequisite, Course 11, 12. Three hours per week. Three semester hours.

32. Intermediate Accounting

MR. BRENGLE

A continuation of the previous course, dealing with problems involving corporate capital, cost accounting, techniques and the analysis of financial data for decision-making purposes. Prerequisite, Course 19. Three hours per week. Three semester hours.

EDUCATION

VISITING PROFESSOR WESSEL
PROFESSOR MESSINGER
PROFESSOR FLETCHER
PROFESSOR RIDGE
VISITING PROFESSOR LISSFELT
MR. TALBOT

The Department of Education provides the professional courses required for certification of Secondary School teachers in Pennsylvania, New Jersey, Delaware, and Mary-
land. Students preparing for requirements of other states should consult the Head of the Department for information concerning specific requirements of those states. In planning its curriculum, the Department has in mind five specific areas in which the growth of students is to be stimulated:

1. To increase their awareness of the function of the school in modern society;
2. To understand the changing philosophies of education which are advanced with the changes occurring in society;
3. To increase their understanding of the nature of growth and development of human beings;
4. To understand how learning takes place;
5. To understand the methods used by the school in gaining its objectives.

The Department of Education regards the preparation of teachers to be a function of the College as a whole.

Students preparing for teaching must complete Psychology 1 prior to taking courses in Education. Students are expected to follow the sequence of courses listed below:

- Spring semester of the second year, Education 2.
- Fall semester of the third year, Education 31.
- Spring semester of the third year, Education 32 and Education 48.
- Fall semester of the fourth year, Education 5 (Student Teaching).
- Spring semester of the fourth year, Education 44.

2. Introduction to and Principles of Secondary School Teaching

The characteristics of teaching as a profession with special reference to secondary education; the nature and interests of adolescents; the task of secondary schools in the United States contrasted with those in other countries; the organization of secondary education to meet the needs of pupils. Three hours per week during the second semester of the second year. Three semester hours.

5. Student Teaching

A laboratory course in student teaching consisting of observation, participation and teaching in neighboring high schools, with individual and group conferences. Consult the instructor for the requirements of different states. Required to complete certification. Open only to fourth-year students who meet the personality and scholastic requirements. This course is given in the fall term, and only six hours of additional work may be carried with it. Prerequisite, Courses 2, 31, 32, 48. Six semester hours.

9. Educational and Psychological Tests and Measurements

An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, courses 31, 32, and Psychology 1. Three hours per week. Three semester hours. (Same course as Psychology 9).

24. Visual and Auditory Aids

A study of the design, construction, and application of the combined visual and auditory aids to learning; anatomy and physiology of the eye and ear; the psychology of sensation and perception and its application in the use of slides, charts, motion pictures, and models. Review of applied research projects dealing with audio-visual aids to instruction and learning. Three hours per week. Three semester hours.
31. Educational Psychology: Growth and Development  
DR. FLETCHER, DR. RIDGE
The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional and social growth from the prenatal period until old age. The development of attitudes, interests and values. The ideal of an integrated personality. (Same course as Psychology 31). Prerequisite, Psychology 1. Three hours per week. *Three semester hours.*

32. Educational Psychology: Learning and Teaching  
DR. FLETCHER, DR. RIDGE
The role of the teacher as a professional person. Basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (Same course as Psychology 32). Prerequisite, Psychology 1. Three hours per week. *Three semester hours.*

44. Social Foundations of Education  
MR. LASSFELT
Historical, economic, social and philosophical changes studied from the standpoint of their effects upon the development of the school, its curriculum and personnel. Three hours per week. *Three semester hours.*

48. Special Methods of Teaching in the Secondary School  
STAFF
Dr. Messinger and Dr. Heilemann (Science), Dr. Wessel (Social Studies), Mr. Ehrlich (English), Dr. Vorrath (Romance Languages), Dr. Hartzell (German), Dr. Dennis (Mathematics), Miss Snell (Health and Physical Education).
This Course meets three times a week, twice with the teacher from the special field and once with a member of the Department of Education.
Grades for Education 48 will be determined cooperatively by the instructor in Education and the instructor in the particular special field.
This course includes materials and methods of instruction and curriculum in each special field with consideration of the course of study for Pennsylvania and a survey of the literature dealing with the methods, problems, and the curriculum in each special area of instruction. *Three semester hours.*

This course shall be designated on the college records as Education 48 with the following suffixes:

(S) — Science
(SS) — Social Science
(E) — English
(RL) — Romance Languages
(G) — German
(M) — Mathematics
(H. and P.E.) — Health and Physical Education

Education 48, Health and Physical Education, will be satisfied by Education 48 (in part), one semester hour, together with either Physical Education 55 or 56.

49. Teaching Reading in Secondary School Academic Subjects  
MR. TALBOT
Reading as a skill from readiness to independence. Each academic subject will receive emphasis. Required of those who wish certification in secondary academic subjects. Two hours per week. *Two semester hours.*

*Complete statements of the various requirements for certification in each subject matter area, for both Pennsylvania and New Jersey, are obtainable at the office of the head of the department of Education.*
This department offers instruction in the knowledge and use of the English language, a study based on the premise that language is the indispensable tool in the life and labor of civilized man and is the art through which he most fully expresses his spirit. Its courses in literature provide opportunity to form an extensive acquaintance with English and American literature and to understand individual works as unique artistic creations and as products of a historical and social process. The ultimate aim is to implant a discriminating appreciation for the best that has been written in our civilization.

Students majoring in English must take the following courses: English Literature 3, 4; 9, 10; 13 or 14; 19, 20; and nine additional semester hours in English; History 1, 2; 9, 10 or 11, 12, 13, 14.

English majors admitted to the College in the fall of 1964 and thereafter will be required in the senior year to pass comprehensive examinations in English and American literature to complete departmental requirements.

Students preparing for graduate study in English should elect French and German as their modern languages. Study in classical languages is strongly recommended for such students.

COMPOSITION

1. First-Year Composition

DR. YOST AND STAFF

The fundamental grammar of English; the study and writing of expository prose. Three hours per week. Three semester hours.

2. First-Year Composition

DR. YOST AND STAFF

Continuation of Course 1; training in the critical reading of prose and verse. Prerequisite, Course 1. Three hours per week. Three semester hours.

3. Second-Year Composition

DR. YOST AND STAFF

Problems of functional writing; expository methods and practice. Prerequisite, Courses 1 and 2. One hour per week. One semester hour.

Course 3 is prescribed for all students entering prior to 1965.

4. Second-Year Composition

DR. YOST AND STAFF

Continuation of Course 3. Prerequisite, Course 3. One hour per week. One semester hour.

Course 4 is prescribed for all students entering prior to 1965.

5. Advanced Composition

MR. DOLMAN

Discussion of and practice in current types of fictional writing, with emphasis on the short story. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. Two semester hours.

6. Advanced Composition

MR. DOLMAN

Discussion of and practice in non-fictional writing with an introduction to basic forms of journalism. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. Two semester hours.
7. Advanced Composition

A course in descriptive writing and an introduction to the various creative forms used in Composition 8. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. Two semester hours.

8. Advanced Composition

A conference course in creative writing offering the student opportunity to practice his favorite type of composition. Enrollment is limited to twelve qualified students by arrangement with the instructor. Prerequisite, Courses 1, 2, 3, 4. Individually scheduled. Two semester hours.

Advanced Composition 22: Etymology

A study of the Greek, Latin, and other linguistic elements of English. Attention will be given to the vocabulary of the sciences (This course will not be open to those who have had either Latin 5 or Greek 1.) Two hours per week. Two semester hours.

LITERATURE

3. Survey of English Literature

The history of English Literature from the beginning to the end of the neo-classical era. Special attention is given to the social background. Three hours per week. Three semester hours.

4. Survey of English Literature

A continuation of course 3 to the present. Three hours per week. Three semester hours.

Courses 3, 4 are prescribed for second-year students majoring in English and are elective for second-year students in other major fields.

5. English Literature from 1660 to 1740

The literature of the Restoration and the early decades of the eighteenth century. Three hours per week. Three semester hours.

Course 5 is elective for third-year and fourth-year students.

6. English Literature from 1740 to 1795.

The literature of the neo-classical age and of pre-romanticism. Three hours per week. Three semester hours.

Course 6 is elective for third-year and fourth-year students.

7. English Poetry, 1790-1824

A study of English poetry from 1790 to the death of Byron. Three hours per week. Three semester hours.

Course 7 is elective for third-year and fourth-year students.

8. English Poetry, 1824-1890

A study of the poetry of Tennyson and his contemporaries. Three hours per week. Three semester hours.

Course 8 is elective for third-year and fourth-year students.

9. Shakespeare

The reading of Shakespeare's principal plays and the study of their background. Three hours per week. Three semester hours.

*This course is not offered in 1966-1967.
10. *Shakespeare*  
*DR. RIFFE*
Continuation of Course 9. Course 9 is not a prerequisite for Course 10. Three hours per week. *Three semester hours.*
Courses 9 and 10 are prescribed for students majoring in English and are elective for third-year and fourth-year students in other major fields.

13. *History of the English Language*  
*DR. STOREY*
Introduction to Anglo-Saxon and the history of the English Language. Three hours per week. *Three semester hours.*

14. *Advanced Grammar*  
*MR. EHRLICH*
A study of historical grammar and linguistics. Three hours per week. *Three semester hours.*
Course 13 or Course 14 is prescribed for second-year or third-year students majoring in English.

15. *Modern Poetry*  
*DR. PHILLIPS*
English poetry from 1890 to the present. Two hours per week. *Two semester hours.*
Course 15 is elective for all students.

17. *The English Novel*  
*DR. PHILLIPS*
A reading course in the development of the novel from its origin to the present. Two hours per week. *Two semester hours.*
Course 17 is elective for all students.

18. *Modern Drama*  
*DR. PHILLIPS*
A reading course in the modern European and American drama from Ibsen to the present. Two hours per week. *Two semester hours.*
Course 18 is elective for all students.

19. *American Literature*  
*DR. YOST*
A survey of American literature from its beginning to the Civil War. Three hours per week. *Three semester hours.*

20. *American Literature*  
*DR. YOST*
American literature from the Civil War to the present. Prerequisite, Course 19. Three hours per week. *Three semester hours.*
Courses 19 and 20 are prescribed for students majoring in English and are elective for second-year, third-year and fourth-year students in other major fields.

21. *Classics in Translation*  
*DR. BAKER*
A study of Homer and Greek and Roman comedy. Two hours per week. *Two semester hours.*

24. *English Poetry*  
*DR. YOST*
A seminar in the reading and interpretation of English and American poetry. Prerequisite, Course 3-4. Three hours per week. *Three semester hours.*
Course 24 is elective for fourth-year students, with the permission of the instructor.
25. Developmental and Remedial Techniques in Reading

MR. TALBOT

Consideration will be given to developmental, corrective and remedial aspects of reading. Application of appropriate testing and instructional procedures will be made. Required of English Majors who wish to have Reading added to the teaching certificate. Two hours per week. Two semester hours.

26. Developmental and Remedial Techniques in Reading

MR. TALBOT

Continuation of Course 25. Required of English Majors who wish to have Reading added to the teaching certificate. Two hours per week. Two semester hours.

FRENCH
See under Romance Languages.

GEOGRAPHY

MR. DAVIS

1. Geography

Extensive study of the major regions of the world. The purpose is to analyze each from the standpoint of climate, natural resources, and economic problems, and to give the student a fairly detailed knowledge of the physical geography of the regions. Three hours per week. Three semester hours.

GEOLOGY

VISITING PROFESSOR BOGERT

The science of geology presents to the student the fundamental concepts of the earth and its relationships to the economic and cultural worlds of man.

1. Physical Geology

MR. BOGERT

The analysis of earth materials, structures, and processes that form the earth's surface. Two hours of lecture and two hours of laboratory work per week. Three semester hours.

2. Historical Geology

MR. BOGERT

A systematic study of the earth's historic events as recorded by geologic processes and organic evolution. Two hours of lecture and two hours of laboratory work per week. Three semester hours.

GERMANIC LANGUAGES

PROFESSOR HARTZELL PROFESSOR RICE

MR. GEIGER

The German Department strives to encourage the student to read, translate, write, and speak German well, and the reading material is chosen with these principles in mind.

GERMAN

Students majoring in German must take the following courses: German 5, 6; 7, 8; 9, 10; and 13-14; twelve (12) semester hours study in another language.

1. Elementary German

DR. RICE

Elements of pronunciation; essentials of grammar. Three hours per week. Three semester hours.

This course is elective for all students who do not offer German for admission.
2. Elementary German
Continuation of German 1. Review of essentials of grammar; reading of simple prose and poems. Three hours per week. *Three semester hours.*

3. Intermediate German
Grammar review; reading of more difficult German prose and poetry, composition, and conversation.
This course is required of those who have had two years of high school German and elect to continue the study of German in college. Three hours per week. *Three semester hours.*

4. Intermediate German
Continuation of German 3. The student is encouraged to develop facility in reading, writing, and speaking German. Three hours per week. *Three semester hours.*

5. Advanced German Reading
Reading of material which will give background for the understanding of Goethe's Faust. Three hours per week. *Three semester hours.*

6. Goethe's Faust
A careful study of the text of Goethe's Faust I and parts of Faust II and the Urfaust. Three hours per week. *Three semester hours.*

7. German of the Classic Period
The masterpieces of Lessing and Klopstock. Two hours per week. *Two semester hours.*

8. German of the Classic Period
The masterpieces of Schiller and Goethe. Two hours per week. *Two semester hours.*

9. Literature of the Nineteenth Century
A careful reading of representative works of the Nineteenth Century. Two hours per week. *Two semester hours.*

10. Literature of the Twentieth Century
A careful reading of representative works of the Twentieth Century. Gerhart Hauptmann, Kafka, Thomas Mann, Schnitzler and Wiechert are the writers whose works are studied. Two hours per week. *Two semester hours.*

11. Scientific German
Reading and careful translation of original works in scientific fields. Two hours per week. *Two semester hours.*

12. Scientific German
Continuation of German 11. Readings may be assigned in scientific journals. Individual consultations. Two hours per week. *Two semester hours.*

13. Writing and Speaking German
Practice in the oral elements of the language; written composition. Two hours per week. *Two semester hours.*

*This course is not offered in 1966-1967.*
*14. Writing and Speaking German

Continuation of German 13. Increased emphasis upon speaking German. Two hours per week. Two semester hours.

SWEDISH

Study of Swedish will not fulfill the College general requirement of language for graduation.

*1. Swedish Language and Culture

Grammar, reading, and lectures on cultural background. Three hours per week. Three semester hours.

*2. Swedish Language and Culture

Continuation of Swedish 1. Students completing this course will be able to read Danish and Norwegian as well as Swedish. Three hours per week. Three semester hours.

3. Advanced Swedish

Readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. Three semester hours.

4. Advanced Swedish

Continuation of Swedish 3. More readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. Three semester hours.

GREEK

See under Classical Languages.

HEALTH AND PHYSICAL EDUCATION

PROFESSOR BAILEY
ASSISTANT PROFESSOR WHATLEY
PROFESSOR SNELL
MRS. MAYERS
ASSOCIATE PROFESSOR GURZYNSKI
MRS. POLEY

The Health and Physical Education Department serves dual functions: (1) to provide for all students a diversified Service Program of activities, and (2) to offer to those students interested in majoring in the field, a comprehensive Professional Program in Health and Physical Education leading to teaching certification in these areas.

Included in the Service Program are the required two-hour freshmen classes in basic activities, the optional organized intramural programs for men and women, and the provision of recreational facilities for use of all students in their leisure time.

The Professional Program is a four-year course, offering, within the framework of a broad Liberal Arts education, the opportunity to receive specific training in the field of Health and Physical Education. Implicit in its objectives are the development of the total individual in knowledge, skills, habits and attitudes, the development of social and professional competencies, the growth of insight, independent thought, initiative and leadership, and the evolution of a dynamic ethical philosophy.

Students majoring in Health and Physical Education must take the following courses: Physical Education 31, 32 (m) or 32 (w), 43, 44, 51, 52, 54, 55, 56, 57, 58, 61, 62, 64; 301, 302, 303, 304, 305, 306, 307, 308; Biology 3, 4; 17, 18; Psychology 1, 8.

*This course is not offered in 1966-1967.
SERVICE COURSES

MR. WHATLEY, MRS. MAYERS

101 102. A basic course offering a variety of seasonal games and skills. Its aims are to develop basic skills, improve physical fitness, provide enjoyment and relaxation and to develop recreational and social competence through participation in stimulating activities. This course is a requirement for graduation for all students except those majoring in physical education and must be completed in the first year. Two hours per week. Not a credit course.

PROFESSIONAL COURSES

HEALTH AND PHYSICAL EDUCATION

31. Principles and History of Physical Education

MISS SNELL

An orientation course designed to give the student an understanding of the meaning, basic philosophies, principles, and problems of physical education; an analysis of its historical background from the era of primitive man to modern times. Three hours per week. Three semester hours.

32m. Personal and Community Health (Men students only)

MR. GURZYNISKI

A study of factors affecting the physical, mental, and social well-being of the individual and of the community. Major emphasis is placed upon problems of personal health including disease prevention and the understanding of the functioning of the human body. Three hours per week. Three semester hours.

32w. Personal and Community Health (Women students only)

MISS SNELL

Subject matter and presentation as for Physical Education 32m. Three hours per week. Three semester hours.

43. Community Recreation Programs

MR. BAILEY

A comprehensive analysis of the leisure-time problem. An examination of the nature, scope, need, and function of community recreation programs, and of the social and economic forces affecting them. Three hours per week. Three semester hours.

44. Problems and Materials of Health and Safety Education in School Programs

MRS. MAYERS

The scope, responsibility, and function of the health education program in the school with particular stress upon the phases of healthful school living, health service, and safety education. Resource materials are studied and compiled. Two hours per week. Two semester hours.

51. Kinesiology

MR. GURZYNISKI

An anatomical analysis of the mechanics of body movement and position. A study of the fundamental anatomical concepts in relation to the development of physical education skills. Prerequisite, Biology 17, 18. Two hours per week. Two semester hours.

52. Physiology of Activity

MR. GURZYNISKI

The physiological phenomena underlying physical activity. The anticipatory, immediate, and after effects of exercise on the different organs and the organism as a whole. Class discussion and laboratory demonstration. Prerequisite, Biology 17, 18. Two hours per week. Two semester hours.
54. First Aid and Care and Prevention of Athletic Injuries

This course deals with the causes, preventive procedures and emergency treatment for all types of common injuries and with those injuries specifically incident to athletic competition. Conditioning exercises, diet and various therapeutic aids are studied. Laboratory practice includes bandaging, taping, massage, and the clinical use of physical therapy equipment. This work may lead to the Red Cross Advanced First Aid certificate. Two hours per week. Two semester hours.

55. Principles and Methods of Teaching Physical Education

Principles, methods, and problems of teaching physical educational activities at the elementary and secondary school levels, lesson planning, unit and curriculum construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. Two semester hours.

56. Methods of Health Instruction

Analysis of the principles, materials, and methods involved in the teaching of health at different age levels. Lesson plans and units construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. Two semester hours.

57. Principles and Methods of Coaching and Officiating

This course is designed with particular reference to the needs of prospective coaches and officials. Opportunities are given for practice in coaching and officiating. Two classroom hours and one hour of practice per week. Two semester hours.

58. Principles and Methods of Coaching and Officiating

Continuation of Physical Education 57. Two hours per week. Two semester hours.

61. Tests and Measurements in Physical Education

This course aims to familiarize the student with the nature, function and history of specific tools of measurement in the field of physical education and to give him working knowledge and experience in the use of essential statistical procedures. Three hours per week. Three semester hours.

62. Administration of Health, Physical Education, and Recreation

A study of the administrative problems in health education and physical education. Two hours per week. Two semester hours.

64. Corrective and Adaptive Physical Education

An analysis of conditions affecting the development of atypical children; methods for selecting and classifying such individuals, with particular attention to the adaption of activities to meet their needs. Three hours per week. Three semester hours.

4. Leadership in Camp and Club Activities

Discussion of the principles, characteristics, and processes of leadership in light of their significance to directors of camp and club activities. Three hours per week. Three semester hours.

ACTIVITIES COURSES

301, 302. First Year Activities

Physical Education activities of a seasonal nature comprise the major content of this
course with greatest stress laid on team sports. All activities are analyzed from the teaching standpoint. Students are given opportunities for self evaluation and for creative and teaching experiences. Consideration is given to the role of rhythmical activities in the program and to the selection and sources of dance materials. Six hours per week. *Four semester hours.*

**MEN:** Football, soccer, tennis, basketball, baseball, track and field, volleyball, marching tactics, tumbling, calisthenics, apparatus, square, folk and social dancing.

**WOMEN:** Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, marching tactics, tumbling, calisthenics, rhythms, square, folk and social dancing.

303, 304. *Second Year Activities*  
A continuation of Course 301 and 302 with some additional activities. More stress is placed on teaching and on the development of advanced skills and team strategies. Six hours per week. *Four semester hours.*

**MEN:** Football, soccer, speedball, tennis, volleyball, baseball, track and field, boxing, wrestling, marching tactics, tumbling, calisthenics, apparatus, tap dancing.

**WOMEN:** Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, archery, campcraft, canoeing, low organized games, rhythms, calisthenics, tumbling, apparatus, tap dancing.

305, 306. *Third Year Activities*  
More time is devoted to individual sports with continuing emphasis upon the teaching and analysis of skills and strategies, and upon the role of these activities in the physical education program. Opportunity is given in modern dance for original composition. Six hours per week. *Four semester hours.*

**MEN:** Archery, golf, riding, tennis, lacrosse, canoeing, badminton, boxing, wrestling, swimming, apparatus.

**WOMEN:** Archery, golf, riding, tennis, lacrosse, canoeing, badminton, swimming, modern dance, apparatus.

307, 308. *Fourth Year Activities*  
A continuation of Course 305 and 306 at a more advanced level. Bowling and lifesaving are offered as additional activities. Three hours per week. *Two semester hours.*

**NOTE:** Sophomore, junior, and senior women may attend a pre-session camp which offers activities in partial fulfillment of these requirements.

Professional courses offered by the Department of Health and Physical Education are designed for students majoring in Health and Physical Education. Students in other majors may elect such courses but, except for Course 32m or 32w, academic credit will be withheld until the student has completed the general college requirements, his departmental requirements, and has earned a total of one hundred twenty semester hours credit. An exception will be made in the case of a student who wishes to have Health or Physical Education written upon his teaching certificate in addition to another subject matter certification. This will require him to take eighteen semester hours in either Health and/or Physical Education in order to obtain academic credit for these courses within the one-hundred-twenty hour limit.
The objectives of the History Department are to provide an opportunity for students to understand the backgrounds of Western culture and their relationship to the whole world, to illuminate their chosen fields with a knowledge of pertinent historical material, and to become acquainted with the methods of objective historical research analysis.

In addition to History 1, 2, students majoring in history must take Course 13, 14; six additional semester hours of European history; ten semester hours in elective history courses, including one seminar; Economics 3, 4; Political Science 1, 2, Sociology 1; English Literature 3, 4 or 19, 20, and Psychology 1.

1. European Civilization
   DR. ARMSTRONG AND STAFF
   An introductory history of Europe for the purpose of providing a general historical background for other courses and for an understanding of contemporary world affairs. Prerequisite for all other history courses. Two lectures and one section meeting per week. Three semester hours.

2. European Civilization
   DR. ARMSTRONG AND STAFF
   Continuation of Course 1. Prerequisite for all History courses other than Course 1. Two lectures and one section meeting per week. Three semester hours.

3. Medieval Institutions
   DR. ARMSTRONG
   A study of selected economic, social, cultural, religious, and political institutions essential to the understanding of the period from the fall of Rome to the Renaissance. Three hours per week. This course is open only to third-year and fourth-year students. Three semester hours.

4. The Renaissance and the Reformation
   DR. ARMSTRONG
   A study of humanism and religion in the 15th and 16th centuries. Three hours per week. This course is open only to third-year and fourth-year students. Three semester hours.

5. The Age of Enlightenment
   MR. DAVIS
   The development of the European state system 1648-1815, the Enlightenment, the French Revolution and the Napoleonic Era. Three hours per week. Three semester hours. (Alternates with 21.)

6. The Age of Romanticism
   MR. DAVIS
   European romanticism and nationalism 1815-1870. Three hours per week. Three semester hours. (Alternates with 22.)

7. The Twentieth Century
   MR. WALDO
   A study of the impact of industrialization, neo-imperialism, and nationalism upon the European peoples and their overseas empires in the years leading up to and directly following the first World War. Three hours per week. Three semester hours.

*This course is not offered in 1966-1967.
8. *The Twentieth Century*  
A continuation of course 7 covering the events leading up to and following the second World War and the problems of contemporary world history. Three hours per week. *Three semester hours.*

9. *England and the British Empire*  
A history of the English people with special attention to political and constitutional developments to 1600. Three hours per week. *Three semester hours.*

10. *England and the British Empire*  
A continuation of Course 9 with special attention to political and imperial developments since 1600. Three hours per week. *Three semester hours.*

11. *English Social History*  
A study of the daily life of the English people. Three hours per week. *Three semester hours.*

12. *English Social History*  
A continuation of Course 11. Three hours per week. *Three semester hours.*

13. *The United States of America*  
Political and cultural history from colonial status to World Power with special emphasis on Pennsylvania. This course is prescribed for all students majoring in history and for any others who are preparing to teach social studies. Three hours per week. *Three semester hours.*

14. *The United States of America*  
A continuation of Course 13. Prescribed for all students majoring in history and for any others preparing to teach social studies. Three hours per week. *Three semester hours.*

15. *American Diplomatic History*  
A study of American diplomacy from the treaty of 1783 to the present, including an analysis of the various factors which determine that policy: public opinion, population, world markets and international organization. Three hours per week. *Three semester hours.* (Alternates with 25.)

16. *Economic and Social History of the United States and Pennsylvania*  
Economic foundations and social change in the United States with intensive study of Pennsylvania. Three year cycle of topics. Students may elect each topic for separate credit.

16a. *Colonial America.* Three hours per week. *Three semester hours.*


16c. *Westward Movement.* Three hours per week. *Three semester hours.*

*This course is not offered in 1966-1967.*
*17. *Latin America*  
Political and cultural backgrounds of South and Central American nations and their relation to the interests and policy of the United States. Three hours per week. *Three semester hours.* (Alternates with 23.)

*18. *Latin America*  
A continuation of Course 17. Three hours per week. *Three semester hours.* (Alternates with 24.)

19. *Greek History*  
Studies in the political, social, and economic life of ancient Greece. Two hours per week. *Two semester hours.*

20. *Roman History*  
This course deals especially with the government of the Roman Republic, the transition to Empire, and the causes of its decline. Two hours per week. *Two semester hours.*

21. *The Middle East*  
The ancient civilization of Egypt, Babylonia, Persia, Greece, and the Byzantine Empire. The Moslem World and the Middle East in modern times. Three hours per week. *Three semester hours.* (Alternates with 5.)

22. *The Middle East*  
Prerequisite Course 21. A continuation of Course 21. Three hours per week. *Three semester hours.* (Alternates with 6.)

23. *The Far East*  
History of the Asiatic Mainland and the Pacific Islands. Three hours per week. *Three semester hours.* (Alternates with 17.)

24. *The Far East*  
A continuation of Course 23. Three hours per week. *Three semester hours.* (Alternates with 18.)

*25. Russia*  
Political and social history of Russia. Three hours per week. *Three semester hours.* (Alternates with 15.)

*26. Canada*  
The development of the Canadian people from colonial status to nationhood. Three hours per week. *Three semester hours.* (Given in alternate years.)

27. *History of Western Art*  
An introduction to the history of architecture, sculpture and painting presented by means of illustrated lectures and museum trips. Three hours per week. *Three semester hours.*

29, 30. *Seminar in European History*  
Preparation and discussion of research papers in European history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. *Four semester hours.*

*This course is not offered in 1966-1967.*
COURSES OF INSTRUCTION

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31, 32. Seminar in American History
Preparation and discussion of research papers in American history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. Four semester hours.

The requirement for History 29, Seminar in European History, may be met by students who complete a special summer course of European travel and research conducted by a member of the Department of History of Ursinus College.

LATIN
See under Classical Languages.

MATHEMATICS

PROFESSOR DENNIS
ASSOCIATE PROFESSOR LEWIS

ASSOCIATE PROFESSOR SCHULTZ
MR. CALL

The aims of the Mathematics Department are (1) the development of an appreciation of the role of mathematics in the progress of civilization, both past and present; (2) the development of the ability to do abstract, logical thinking by the analysis of the various deductive systems of mathematics; and (3) the development of special techniques which can be utilized in the related fields of physics, chemistry, biology, psychology and economics.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See page 105.

A student majoring in Mathematics is required to take Physics 1, 2 and Mathematics 29, 30, 31, 33, and 34 and fifteen additional hours in Mathematics selected from the courses whose number are above 31.

Certain particular courses are recommended but not specifically required. For those preparing to be teachers — 35, 36, 37, 38, 41, 42. For those preparing to take post graduate work — 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45.
For those preparing for engineering jobs in industry and for work in the computing field — 32, 35, 36, 39, 40, 41, 42.

1. Fundamentals of Modern Mathematics
   A treatment of the ideas that are especially pervasive in modern mathematics; sets, functions, operations, and relations; with emphasis on the logical structure of the number systems, algebra, and analytic geometry. Three hours per week. Three semester hours.

2. Fundamentals of Modern Mathematics
   A further development of modern mathematics with a greater emphasis on analysis, and the mathematical disciplines as illustrated in the study of transcendental functions, probability, statistics, and the calculus. Three hours per week. Three semester hours.
13. Statistics
Statistical methods of studying data from the fields of economics, education and industry; probability, measure of central tendency, dispersion, skewness. Two hours per week. Two semester hours. Prerequisite, Mathematics 2.

14. Statistics
A continuation of course 13, correlation, analysis of variance, and methods of testing hypotheses. Two hours per week. Two semester hours. Prerequisite, Mathematics 13.

29. Analytic Geometry and Calculus
An integrated study of analytic geometry and calculus with respect to functions of one variable. Three hours per week. Three semester hours.

30. Analytic Geometry and Calculus
A continuation of course 29, with applications to the fields of chemistry and physics. Three hours per week. Three semester hours. Prerequisite, Mathematics 29.

31. Intermediate Calculus
A continuation of course 30, with emphasis on functions of more than one variable including three-dimensional geometry, partial differentiation and multiple integration. Study of infinite series; and applications to problems in engineering. Three hours per week. Three semester hours. Prerequisite, Mathematics 30.

32. Differential Equations
A study of the methods of solving types of ordinary differential equations with applications to problems in the physical sciences. Three hours per week. Three semester hours. Prerequisite, Mathematics 31.

33. Linear Algebra
An introduction to the important mathematical concepts of systems of linear equations, matrix theory, linear transformations on vector spaces, bilinear and quadratic forms. Three hours per week. Three semester hours.

34. Linear Algebra
A continuation of course 33 with emphasis on applications to Euclidean vector spaces of two and three dimensions. Three hours per week. Three semester hours. Prerequisite, Mathematics 33.

35. Modern Algebra
An introduction to the modern mathematical systems of groups, integral domains, rings, and ideals, fields, and vector spaces. Three hours per week. Three semester hours. Prerequisite, Mathematics 34.

36. Modern Algebra
A continuation of course 35, with extensions to linear groups, algebraic number fields, algebra of classes, Galois theory of equations. Three hours per week. Three semester hours. Prerequisite, Mathematics 35.
37. Modern Geometry
MR. CALL
A study of modern Euclidean geometry of the triangle and circle; inversion and polar reciprocation, isometry and similarity in Euclidean spaces, coordinate geometry, linear transformations and invariant theory. Three hours per week. Three semester hours. Prerequisite, Mathematics 34.

38. Modern Geometry
MR. CALL
A continuation of course 37, with emphasis on affine geometry, projective geometry, non-Euclidean geometry, differential geometry of curves and surfaces; and an introduction to topology. Three hours per week. Three semester hours. Prerequisite, Mathematics 37.

39. Advanced Calculus
MISS SCHULTZ
A theoretical treatment of the concepts of limits, continuity, partial differentiation, indeterminate forms, and infinite series; definitions and properties of the Stieltjes integral, multiple integrals, line and surface integrals. Three hours per week. Three semester hours. Prerequisite, Mathematics 31.

40. Advanced Calculus
MISS SCHULTZ
A continuation of course 39, with an introduction to Gamma and Bessel functions. Fourier series, Laplace transforms, and applications to the solutions of differential equations. Three hours per week. Three semester hours. Prerequisite, Mathematics 39.

41. Probability
DR. LEWIS
An introduction to probability theory; a study of discrete and continuous probability functions. Three hours per week. Three semester hours. Prerequisite, Mathematics 2 or 29.

42. Mathematical Statistics
MISS SCHULTZ
This course emphasizes the essential mathematical background of modern statistics. It includes the mathematical development of sampling distributions; the theory and application of tests of hypotheses, regression and correlation, and analysis of variance. Three hours per week. Three semester hours. Prerequisites, Mathematics 31 and 41.

43. Vector Analysis
DR. DENNIS
Applications of vector calculus to geometry and physics; properties of scalar and vector fields, theorems on line and surface integrals, generalized coordinate systems and transformation theory. Three hours per week. Three semester hours. Prerequisite, Mathematics 39, or simultaneously with Mathematics 39.

44. Theory of Numbers
DR. DENNIS
Theory of primes and divisibility conditions; simple continued fractions, congruence theory, quadratic residues, diophantine equations. Three hours per week. Three semester hours.

45. Functions of a Complex Variable
DR. DENNIS
An introduction to the theory of analytic functions, integrals of complex functions, conformal mapping, harmonic functions, Taylor's and Laurent's series, residue theory, geometry of elementary functions. Three hours per week. Three semester hours. Prerequisite, Mathematics 39, or simultaneously with Mathematics 39.

*This course is not offered in 1966-1967.
MUSIC

PROFESSOR PHILIP

The program in music is designed to meet the needs of non-professional music students and to promote a wider knowledge and appreciation of the history, theory, and performance of great music. The program comprises classroom instruction and opportunities for individual and group participation.

A. THEORY OF MUSIC

1. Elementary Harmony
   A thorough foundation in the melodic, rhythmic, and harmonic elements of music; keys, scales, intervals, cadences, major and minor chords; rhythmic reading and dictation, time durations, and the study of compound and simple measures. Prerequisite, one year of piano study or of musical theory. Two hours per week. Two semester hours.

2. Elementary Harmony
   A continuation of Music 1. Prerequisite, Music 1. Two hours per week. Two semester hours.

B. APPRECIATION OF MUSIC

13. Appreciation of Music
   This course covers the early development of music through religious music, folk song and folk dance, and follows their progress to the larger forms of musical composition. Two hours per week. Two semester hours.

14. Appreciation of Music
   A continuation of Music 13. The further development of music is traced into the symphonic and operatic fields of composition. Prerequisite, Music 13. Two hours per week. Two semester hours.

C. HISTORY OF MUSIC

15. History of Music
   Introduction to choral and instrumental music of the ancient and medieval period. Two hours per week. Two semester hours.

16. History of Music
   A continuation of Music 15. This course deals with the music of the Eighteenth Century, the Romantic period, and the Twentieth Century. Prerequisite, Music 15. Two hours per week. Two semester hours.

17. Opera and Orchestral Music
   A detailed analysis of symphonic music. Two hours per week. Two semester hours.

18. Opera and Orchestral Music
   A detailed analysis of proven operatic compositions. Two hours per week. Two semester hours.

19. Music Dramas of Richard Wagner
   An intimate discussion and the detailed analysis of Wagner's works. Two hours per week. Two semester hours.

Course 19 alternates with Courses 17, 18.

*This course is not offered in 1966-1967.
D. Musical Organization

21a, 22a. Band
Participation in the marching and the concert band. Two hours per week. Not a credit course.

21b, 22b. Band
Second year. Continuation of first-year work. Two hours per week. Not a credit course.

21c, 22c. Band
Third year. Continuation of second-year work. Two hours per week. Not a credit course.

21d, 22d. Band
Fourth year. Continuation of third-year work. Two hours per week. Not a credit course.

27a, 28a. Vocal Ensemble and Methods
A study of the basic principles of ensemble technique, vocal characteristics, and various types of voices. Discussion and study of the musical literature of the different periods. Practical application of principles studied as well as participation with the Ursinus Meistersingers in public concerts. Two hours per week. Not a credit course but a prerequisite for Music 27b, 28b.

27b, 28b. Vocal Ensemble and Methods
Second year. Continuation of first-year work. Two hours per week. Credit of one semester hour to be awarded at the conclusion of the year.

27c, 28c. Vocal Ensemble and Methods
Third year. Concentration of second-year work. Two hours per week. Credit of one semester hour to be awarded at conclusion of the year.

27d, 28d. Vocal Ensemble and Methods
Fourth year. Continuation of third-year work. Two hours per week. Not a credit course.

Not more than twelve semester hours in Music may be counted toward graduation.

PHILOSOPHY AND RELIGION

ASSISTANT PROFESSOR HINKLE
ASSOCIATE PROFESSOR CREAGER
ASSISTANT PROFESSOR DAVID BAKER
ASSISTANT PROFESSOR FERGUSON
DR. GRABERT

The Department of Philosophy and Religion seeks to cultivate the student's informed awareness and critical appraisal of philosophical perspectives, and to give him opportunity for a scholarly and appreciative study of historic as well as contemporary religious insights. In this manner the department strives to translate into the terms of today's academic needs the traditional roles both disciplines have played in liberal education.

Courses in Philosophy are open to third-year and fourth-year students with the exception of Courses 101 and 102. Courses 101 and 102 are open also to second-year students, and are designed for students who do not plan to elect specialized courses in Philosophy. Although Religion courses are open to all students, normally they are taken by third-year and fourth-year students.
Students majoring in Philosophy and Religion are given (1) a comprehensive review of the fundamental subject matter of both disciplines, (2) an introduction to several derivative disciplines through their pursuit of an Area of Concentration in related fields, and (3) an opportunity to integrate their understanding of Philosophy and Religion by means of a Senior Seminar and a Comprehensive Examination.

Majors must take Philosophy 101, 102, 103, 104, 106 and 107; Religion 1 and 2; and the Senior Seminar. In addition, they may choose between Religion 4 or 6 and History 4, and between Philosophy 105 and History 27. Each major also must elect fifteen hours of course work in one of four Areas of Concentration, each of which is viewed as giving explicit expression to certain traditional types of philosophical inquiry and religious reflection. The four areas are:

A — English 21; History 19, 20; Greek 1-8; Latin 1-12
B — History 27; English 15, 17, 18; Music 13, 14, 15-19
C — Mathematics 1, 2, 29, 30; Music 1, 2; Psychology 32; English 13, 14, 22
D — Psychology 4; Sociology 1, 2; Political Science 7, 10; Economics 21; Biology 22

With the approval of the adviser a major may make certain substitutions in the area he chooses.

101. History of Ancient and Medieval Philosophy
   DR. HINKLE, DR. FERGUSON
   A survey of the evolution of reflective thought in the Western World from Thales to Descartes. Course 101 is open to second-year students.
   Three hours per week. Three semester hours.

102. History of Modern Philosophy
   DR. HINKLE, DR. FERGUSON
   A survey of developing reflective thought in the Western World, beginning with Descartes and including several representative contemporary philosophers. Course 102 is open to second-year students.
   Three hours per week. Three semester hours.

103. General Problems of Philosophy
   DR. HINKLE
   A study designed to orient the student with reference to perennial problems of philosophical inquiry. Intensive use is made of primary sources.
   Three hours per week. Three semester hours.

104. Modern Philosophical Problems
   DR. HINKLE
   A study of certain problems outlined in Course 103 and inherent in a specific philosophy of nineteenth or twentieth-century origin. As in Course 103, intensive use is made of primary sources.
   Three hours per week. Three semester hours.

105. Ethics
   DR. HINKLE
   A study of the principles of moral judgment, with exposition and criticism of the more important theories concerning the basic distinction between right and wrong conduct; the various problems of theoretical and practical ethics.
   Three hours per week. Three semester hours.

106. Logic
   DR. HINKLE
   A study of the guiding principles involved in correct thinking, the use of terms; classification; the nature of deductive inference with special reference to fallacious
forms of reasoning as they receive expression in daily life; the canons of inductive
inference; the basic concepts in scientific method.
Three hours per week. *Three semester hours.*

107. Philosophy of Religion  
**DR. CREAGER, DR. BAKER**
A philosophical study of religious beliefs and practices in order to ascertain the
nature and value of religion. Particular attention is given to questions involving the
nature and reality of God, the problem of evil and suffering, free will, and im-
mortality.
*Offered in both terms.* Three hours per week. *Three semester hours.*

109. Senior Seminar: Current Issues and Movements in Religion  
**THE STAFF**
A study of contemporary theological and institutional trends in Religion, making use
of lectures, discussions, research papers, etc. Course 109 is open only to majors in the
field of Philosophy and Religion.
Two hours per week. *Two semester hours.*

110. Senior Seminar: Current Issues and Movements in Philosophy  
**THE STAFF**
A study of contemporary thinkers and schools of thought in Philosophy, making use
of lectures, discussions, research papers, etc. Course 110 is open only to majors in the
field of Philosophy and Religion.
Two hours per week. *Two semester hours.*

1. Introduction to the Literature of the Bible: Old Testament  
**DR. GRABERT**
An appreciative and historical study of the Bible, with a view to discovering its
origin, nature, and significance in the life of today.
Three hours per week. *Three semester hours.*

2. Introduction to the Literature of the Bible: New Testament  
**DR. GRABERT**
Three hours per week. *Three semester hours.*

4. Christian Classics  
**DR. CREAGER**
Readings in the classics of Christian literature including the writings of such men as
Augustine, St. Francis of Assisi, Thomas a Kempis, Fox, Law, Baxter, Woolman, and
Temple.
Three hours per week. *Three semester hours (This course alternates in the Spring
Term with Course 6.)*

6. History of the Christian Church  
**DR. CREAGER**
A study of the development of the Christian church from the apostolic period to
modern times, with a view to understanding the nature and extent of its contribution
to society.
Three hours per week. *Three semester hours. (This course alternates in the Spring
Term with Course 4.)*

*This course is not offered in the Spring Term of 1967.*

**PHYSICAL EDUCATION**

See under *Health and Physical Education.*
PHYSICS

PROFESSOR HEILEMANN
ASSOCIATE PROFESSOR SNYDER
ASSISTANT PROFESSOR MARSTELLER

The courses in Physics are designed to furnish the student with a groundwork of as much of the material of physics as time will permit. Stress is laid upon methods of analysis and presentation of ideas. It is hoped in this way to make the student conversant with the methods of Physics, to develop in him the ability to study independently and to transmit his ideas to others.

Students majoring in Physics must take the following courses: CMP 267-1, 2; Physics 3, 4, 5, 6, 7, 8; Mathematics 31, 32, 39, 40, 43, 45.

Students majoring in Physics who are preparing to teach in secondary schools may substitute courses in Education for the following courses: Physics 7, 8; Mathematics 32.

NOTE: Students who complete the integrated course in General Chemistry, General Physics and Mathematics (CMP267-1, 2) will satisfy the requirement for the following combination of courses: Chemistry 101, 2; Physics 1, 2; and Mathematics 29, 30. See page 105.

1. General Physics

Elementary mechanics and heat. Physics is presented not only as a science having practical application to everyday life, but as an example in itself of general scientific method. Prerequisite, Mathematics 1, 2, or high-school trigonometry and a satisfactory rating in the Mathematical Aptitude section of the CEEB test or in some test of a similar nature. Although not a requirement, Mathematics 29 and 30 are strongly urged, to be pursued concurrently if not already completed. Three hours lecture and three hours laboratory per week. Four semester hours.

2. General Physics

Elementary sound, light, electricity and magnetism. Prerequisite, Physics 1. Three hours lecture and three hours laboratory per week. Four semester hours. Admission to advanced courses depends upon the quality of work done in the elementary course.

Students intending to elect any of the advanced courses are asked to confer with the instructor during the year prior to that in which the course is to be taken, in order that a satisfactory schedule may be arranged.

3. Mechanics: Statics and Dynamics

Plane and space force systems; concurrent forces; moments; center of gravity; friction; motion; curvilinear motion; projectiles; D'Alambert's Principle; moment of inertia; equilibrium of a rigid body; kinematics; Newton's Laws; work and energy; harmonic motion; rotation about a fixed axis; torsion pendulum; compound pendulum; coupled systems. Prerequisite, Mathematics 29 and 30. Three hours lecture and three hours laboratory per week. Four semester hours.

4. Electricity and Magnetism

Gauss's Theorem; potential; capacity; electric and magnetic circuit; Kirchhoff's Laws; inductance; alternating currents; electrical machinery; elements of electronics. Prerequisite, Mathematics 29 and 30. Three hours lecture and three hours laboratory per week. Four semester hours.

5. Optics

Image formation, systems of lenses and mirrors; dispersion; spectra; interference and
diffraction; polarization; origin of radiation; effects of radiation; applications. Three
hours of lecture and three hours laboratory per week. *Four semester hours.*

6. *Sound*  
   **DR. HEILEMANN**  
The nature of sound, the physical basis of music, speech, and hearing; acoustics of
buildings; methods of sound transmission and reproduction, and study of distortion;
diffraction and interference; applications. Three hours lecture and three hours labora-
tory per week. *Four semester hours.*

7. *Modern Physics*  
   **DR. SNYDER**  
The elementary charged particles; electromagnetic radiation; waves and particles;
   elementary theory of the hydrogen atom; atomic spectra and electron distribution;
natural radioactivity; nuclear disintegration; nuclear energy. Prerequisite, Mathematics
31. Three hours per week. *Three semester hours.*

7a. *Laboratory in Modern Physics*  
   **DR. SNYDER**  
   Laboratory work (optional) for Course 7. Three hours per week. *One semester hour.*

8. *Modern Physics*  
   **DR. SNYDER**  
   Continuation of Course 7. Three hours per week. *Three semester hours.*

8a. *Laboratory in Modern Physics*  
   **DR. SNYDER**  
   Laboratory work (optional) for Course 8. Three hours per week. *One semester hour.*

9. *Research*  
   **STAFF**  
   Special studies, usually of an experimental nature, pursued independently by the
student. The preparation of a summarizing report is required. Before a student regis-
ters for this course he must have the consent of a member of the physics staff to serve
as his adviser. *One semester hour.*

10. *Research*  
   **STAFF**  
   Continuation of prerequisite Course 9. *One semester hour.*

11. *Astronomy*  
    **MR. MARSTELLER**  
   Facts and theories concerning the appearance, dimensions, motions, and interrelations
   of celestial bodies. Prerequisite, Mathematics 1 and 2 or its equivalent and some
   knowledge of physics. Three hours per week. *Three semester hours.*

12. *Astronomy*  
    **MR. MARSTELLER**  
   Continuation of Course 11. Three hours per week. *Three semester hours.*

14. *Alternating Currents*  
    **DR. SNYDER**  
   Capacitative and self-inductive circuits; mutual induction; the alternating-current
   circuit; alternating-current power and power factor; divided circuits; application of
   complex numbers; electro-magnetic waves. Prerequisites, Physics 4 and Mathematics
   31. Three hours per week. *Three semester hours.*

15. *Elements of Mathematical Physics*  
    **DR. SNYDER**  
   Introduction to selected concepts and techniques of theoretical physics; vector and
tensor analysis, differential equations, LaGrange's equations, Laplace transforms,
Fourier analysis, boundary value problems for the diffusion equation, heat flow equa-
tion, wave equation, calculus of variations. Prerequisites, Physics 1, 2, 3, 4; Mathe-
matics 29, 30. Mathematics 39, 40 and 43 although not prerequisites should be pur-
sued concurrently. Two hours per week. *Two semester hours.*

16. *Elements of Mathematical Physics*  
    **DR. SNYDER**  
   Continuation of prerequisite Course 15. Two hours per week. *Two semester hours.*
POLITICAL SCIENCE

PROFESSOR E. H. MILLER

ASSOCIATE PROFESSOR ZUCKER

PROFESSOR PANCOAST

The objectives of the Department of Political Science with relation to the general student are:

1. To help the student attain an appreciation of both the theory and the functioning of politics.
2. To aid the student in developing the faculty of critical thinking and objective attitudes.
3. To teach the student those values that sustain faith in freedom.

The professional objectives are:

1. To prepare students for graduate work in political science and the law.
2. To prepare students for the examinations for both the domestic civil service and the foreign service.

In addition to Political Science 1, 2, students majoring in Political Science must take course 5, 6; ten semester hours in elective Political Science courses; History 1, 2; History 13, 14; Economics 3, 4; Psychology 1 and Sociology 1, 2.

It is recommended that Political Science 1, 2 be taken in the first year, Political Science 5, 6 and Economics 3, 4 in the second year and Sociology 1, 2 and History 13, 14 in the third year.

1. **American Government**
   DR. PANCOAST, DR. ZUCKER
   An analysis of the structure and functions of American national and state governments. Three hours per week. *Three semester hours.*

2. **American Government**
   DR. PANCOAST, DR. ZUCKER
   Continuation of Course 1. Three hours per week. *Three semester hours.*

3. **Municipal Government and Administration**
   DR. PANCOAST
   The legal power and position of the city in our political system. Thorough consideration of forms and activities of city government. Three hours per week. *Three semester hours.*

4. **Political Parties**
   DR. PANCOAST
   Both structural description and functional analysis of American political parties. The organization, work, leaders, and place of political parties in our democracy are considered at length. Three hours per week. *Three semester hours.*

5. **Comparative Government**
   DR. MILLER
   A detailed comparison of the Cabinet and Presidential systems, as exemplified by England and the United States. Three hours per week. *Three semester hours.*

6. **Comparative Government**
   DR. MILLER
   The study is extended to other representative governments, including France, Germany, Italy, Russia and Japan. Three hours per week. *Three semester hours.*

7. **Political Theory**
   DR. ZUCKER
   Significant political ideals, forces, and concepts from Plato to the present. Three hours per week. *Three semester hours.*
8. Constitutional Law  
DR. PANCOAST  
General principles of constitutional law as enunciated through the judicial process. Extensive use of cases on the federal system, the distribution of governmental power and the limitations on governmental power in the areas of personal liberty and property rights. Three hours per week. *Three semester hours.*

9. Public Administration  
DR. PANCOAST  
A survey of the field of public administration, emphasizing administrative organization, fiscal management, and personnel management. The administrative process is considered as a unit encompassing federal, state, and local administration. Three hours per week. *Three semester hours.*

10. American Political Theory  
DR. ZUCKER  
Main currents in American political thought from the seventeenth century to the present. Three hours per week. *Three semester hours.*

†11. Seminar in Political Science  
DR. MILLER  
Selected topics in international organization and international relations. Two hours per week. *Two semester hours.*

†12. Seminar in Political Science  
DR. MILLER  
Continuation of Seminar in Political Science 11. Two hours per week. *Two semester hours.*

*†13. Seminar in Political Science  
DR. MILLER  
International Law. The case-study method. Two hours per week. *Two semester hours.*

*†14. Seminar in Political Science  
DR. MILLER  
Continuation of Seminar in Political Science 15. Two hours per week. *Two semester hours.*

Courses 11, 12 alternates with Courses 13, 14.

PSYCHOLOGY

PROFESSOR FLETCHER

The Department of Psychology is guided in its offerings and activities by two sets of objectives: (1) For the student majoring in areas other than Psychology, the introductory course for all, and Abnormal Psychology and Mental Hygiene for many, endeavor to show the growth of modern psychology and an understanding of adjustments used in maintaining mental health; and (2) an attempt is made to present a composite view of the main phases of present-day psychology, which is based on a broad foundation in social science and the biological sciences.

Students majoring in Psychology must take the following courses: Biology 3, 21, 22; Mathematics 1, 2, 13, 14; Economics 3, 4; Political Science 1, 2 and Sociology 1, 2; Psychology 1, 4, 8, 9, 10, 12, 14, 31, and 32. Students who plan to continue the study of Psychology at the graduate level are strongly urged to include in their schedules Mathematics 29, 30; Biology 17, 18; Philosophy 3, 4 and Physics 1, 2.

*This course is not offered in 1966-1967.
†Open only to third-year and fourth-year students.
1. Elementary Psychology  
**DR. FLETCHER, DR. RIDGE**  
An introductory study of mental life and accompanying types of human behavior. Three hours per week. Psychology 1 is a prerequisite for all other psychology courses. *Three semester hours.*  

Course 1 must be taken during the first semester of the second year by all students preparing to become teachers.

4. Social Psychology  
**DR. RIDGE**  
A study of group action and of the group influences by which the individual is surrounded; tradition, custom, public opinion, and other psychological and social forces which affect individual judgment and action. Prerequisite, Course 1. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.*

8. Mental Health and Abnormal Psychology  
**DR. FLETCHER, DR. RIDGE**  
The problem of mental health is treated under the following topics: The dynamics of human behavior, normal and abnormal reactions to frustration and conflict. Psychological, organic, and social causes of poor mental health. The roles played by the home, the school, and society in mental health. Additional topics include psycho-neuroses and functional psychoses, epilepsy, drug addiction, and alcoholism. Methods of prevention and treatment of mental illness are discussed. This course is given from the point of view of preventive mental hygiene. Prerequisite, Course 1. Three hours per week. *Three semester hours.*

9. Educational and Psychological Tests and Measurements  
**DR. FLETCHER**  
An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, Courses 31, 32. Prerequisite, Course 1. Three hours per week. *Three semester hours.*  
*(The same course as Education 9.)*

10. Elementary Experimental Psychology  
**DR. RIDGE**  
This course is designed to acquaint the student with laboratory techniques used in psychology. Limited to and required of all majors in psychology. Lectures, demonstrations, individual experiments and the preparation of scientific reports. Prerequisite, Course 1. Three hours lecture and two hours laboratory. *Four semester hours.*

12. Psychology in Industry  
**DR. FLETCHER**  
This course deals with the application of psychological techniques and principles to the problems of industry. Emphasis is given to individual differences, aptitudes and skills, job evaluation, merit rating, work methods, training programs, fatigue, accident control, safety education, incentives, employee attitudes, morale, the interview and related employment methods. Prerequisite, Course 1. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.*

14. Seminar in Psychology  
**DR. FLETCHER**  
A course designed to acquaint the student with current trends in theoretical and applied psychology. Emphasis will be given to the preparation and presentation of papers on selected topics which will vary from year to year. Open only to fourth-year students majoring in psychology. Prerequisite, Course 1. One hour per week. *One semester hour.*
31. Educational Psychology—Growth and Development  DR. FLETCHER, DR. RIDGE
The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional, and social growth from the prenatal period until old age. The development of attitudes, interests, and values. The ideal of an integrated personality. (*The same course as Education 31.*) Prerequisite, Course 1. Three hours per week. *Three semester hours.*

32. Educational Psychology—Learning and Teaching  DR. FLETCHER, DR. RIDGE
The role of the teacher as a professional person. The basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (*The same course as Education 32.*) Prerequisite, Course 1. Three hours per week. *Three semester hours.*

PUBLIC SPEAKING

3. Public Speaking  MR. EHRLICH
Composition and delivery of various types of speeches, with group criticism and discussion. The class will be organized and conducted according to the rules of parliamentary procedure. Prerequisite, English Composition 1, 2. Two hours per week. *Two semester hours.*

4. Public Speaking  MR. EHRLICH
Continuation of Course 3. Prerequisite, Public Speaking 3. Two hours per week. *Two semester hours.*

5. Debating  MR. EHRLICH
This course is organized for both beginners and advanced students who are interested in debating in intramural and intercollegiate tournaments. Open to third-year students who have completed Public Speaking 3 and 4, or who have been members of the Debating Club for at least one year. The course may be repeated for credit in the senior year. One hour per week. *One semester hour.*

6. Debating  MR. EHRLICH
Continuation of Course 5. One hour per week. *One semester hour.*

*Note:* All students in the College may participate in the activities of the extra-curricular debating society without being enrolled in Courses 5 and 6.

ROMANCE LANGUAGES

ASSOCIATE PROFESSOR VORRATH  MISS KILZ
PROFESSOR GARRETT  MR. RAPPOCCIO
ASSOCIATE PROFESSOR DOANE  MR. VANNUCCHI

The development of linguistic ability and an understanding of the foreign culture comprise the scope of the first two year’s work.

Students who advance beyond courses numbered 4 receive further instruction in conversation, composition, and the literatures of the respective languages. The goal of this teaching is to develop faculties of critical and esthetic judgment, as well as to perfect the use of the languages.
FRENCH
French majors must meet the following requirements:
French 5, 6, 9, 15, 16; History 3, 4 or 5, 6. It is recommended that Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school) be taken.

One of the following courses: French 7, 8, 10;
Two of the following courses: French 11, 12, 13, 14.

1. Elementary French
Three hours per week. Three semester hours.

2. Elementary French
Prerequisite: French 1. Three hours per week. Three semester hours.

3. Intermediate French
Prerequisite: French 2 or equivalent (i.e., satisfactory completion of two years of French in secondary school). Three hours per week. Three semester hours.

4. Intermediate French
Prerequisite: French 3. Three hours per week. Three semester hours.

5. Survey of French Civilization and Literature
The development of French life, arts and literature from the Middle Ages to the Revolution. Tapes and slides showing French cultural life from origin to modern time. Three hours per week. Three semester hours.

6. Survey of French Civilization and Literature
A continuation of Course 5; from 1789 to the present. Three hours per week. Three semester hours.

7. Rabelais, the Pleiade, Montaigne
Two hours per week. Two semester hours.

8. Corneille, Racine
Two hours per week. Two semester hours.

*9. Molière
Two hours per week. Two semester hours.

*10. Voltaire, Rousseau
Two hours per week. Two semester hours.

Courses 7 and 8 alternate with Courses 9 and 10.

*11. Seminar in French Literature 1800-1860
Three hours per week. Three semester hours.

*12. Seminar in French Literature
Prerequisite: French 11. Three hours per week. Three semester hours.

13. Seminar in French Literature, 1860 to 1900
Three hours per week. Three semester hours.
14. Seminar in French Literature, 1900 to the present
Prerequisite: French 13. Three hours per week. Three semester hours. Courses 11 and 12 alternate with Courses 13 and 14.

15. Advanced Composition and Conversation
Two hours per week. Two semester hours.

16. Advanced Composition and Conversation
Two hours per week. Two semester hours.

SPANISH
Spanish majors must meet the following requirements:
Six hours of advanced Spanish composition and conversation and fourteen hours of Spanish literature (Students planning to teach shall take three hours of advanced grammar in second semester of the senior year and will be permitted to take only eleven hours of literature).

1. Elementary Spanish
Three hours per week. Three semester hours.

2. Elementary Spanish
Prerequisite: Spanish 1. Three hours per week. Three semester hours.

3. Intermediate Spanish
Prerequisite: Spanish 2 or equivalent (i.e., satisfactory completion of two years of Spanish in secondary school). Three hours per week. Three semester hours.

4. Intermediate Spanish
Prerequisite: Spanish 3. Three hours per week. Three semester hours.

9. Spanish-American Literature
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. Two semester hours.

10. Spanish-American Literature
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. Two semester hours. Courses 9 and 10 alternate with Courses 125 and 126.

13. Advanced Composition and Conversation
Three hours per week. Three semester hours.

14. Advanced Composition and Conversation
Three hours per week. Three semester hours. Courses 5 and 6 alternate with Courses 13 and 14.

*This course is not offered in 1966-1967.
121. Spanish Theatre Since 1800  
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.

122. Spanish Prose Since 1800  
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.

123. Theatre of the Siglo de Oro  
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.

124. Prose of the Siglo de Oro  
Prerequisite, Spanish 14 or permission of the instructor. Three hours per week. Three semester hours.  
Courses 123 and 124 alternate with Courses 121 and 122.

125. Spanish Lyric Poetry  
Prerequisite, Spanish 14 or permission of the instructor. Two hours per week. Two semester hours.

126. Medieval Spanish Literature  
Prerequisite, Spanish 9, 10, 121, 122, 123, 124, 125, or permission of the instructor. Two hours per week. Two semester hours.

128. Advanced Grammar  
Intended primarily for Spanish majors who plan to teach. Prerequisites, Spanish 14 and at least one year of a Spanish literature course. Three hours per week. Three semester hours.

RUSSIAN

1. Elementary Russian  
Grammar, conversation, reading. Three hours per week. Three semester hours.

2. Elementary Russian  
Continuation of Russian 1. Emphasis upon reading and conversation. Three hours per week. Three semester hours.

3. Intermediate Russian  
Grammar review, reading, conversation. Three hours per week. Three semester hours.

4. Intermediate Russian  
Continuation of Russian 3. Emphasis upon reading and conversation. Three hours per week. Three semester hours.

*This course is not offered in 1966-1967.
SOCIOLOGY

1. Introduction to Sociology

A course designed to give the student a more scientific understanding of man's social nature and of the social world in which he lives. In addition to fundamental concepts and theories particular attention is focused on problems arising from race relations and personality disorganization. Not open to freshmen. Three hours per week. Three semester hours.

2. Introduction to Sociology

A continuation of Sociology 1. Problems to which particular attention is given include urbanization, public opinion and propaganda, marriage and the family, and crime and delinquency.

Prerequisite, Course 1. Three hours per week. Three semester hours.

SPANISH

See under Romance Languages

SWEDISH

See under Germanic Languages

INTEGRATED PHYSICAL SCIENCE COURSE

CMP 267-1. Integrated General Chemistry, Mathematics, and General Physics

A combined course of general chemistry, analytical geometry, calculus, and general physics which avoids repetition and takes advantage of the complementary nature of these subjects. As the calculus is developed it is utilized in the presentation of the concepts of chemistry and physics. A knowledge of the elements of trigonometry is assumed.

It includes a study of the basic theories and laws of chemistry covering the common elements of the periodic system, their interactions and energy relationships. The mathematics portion is an integrated study of analytic geometry and calculus with respect to functions of one variable. The coverage is equivalent to the content of Mathematics 29. Elementary mechanics and heat comprise the physics content. Emphasis is placed on gaining an understanding of basic concepts of physics. An attempt is made to foster an analytical approach to the sciences through the application of mathematical and physical principles to physical problems.

Seven hours of lecture; two three-hour laboratories, one in chemistry and one in physics, per week. Nine semester hours.

CMP 267-2. Integrated General Chemistry, Mathematics, and General Physics

A continuation of course 267-1. The chemistry content is a study of the oxidation states of the common elements, chemical equilibrium, solubility and pH. The chemistry laboratory work deals with the qualitative separation of the common cations and anions. The mathematics portion is a continuation of the study of analytic geometry and calculus. It is equivalent to Mathematics 30. The physics subjects covered include sound, light, electricity and magnetism.

Prerequisite, course 267-1. Completion of course 267-2 is prerequisite for subsequent chemistry and physics courses and satisfies the prerequisite for Mathematics 31. Seven hours of lecture; two three-hour laboratories, one in chemistry and one in physics, per week. Nine semester hours.
## Classics (B.A.)

**Adviser—Professor Baker**

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<td>Hist. 1, 2 ....6</td>
<td>Science ....6</td>
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## Economics (B.A.)

**Adviser—Professor Shearer**

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## English (B.A.)

**Adviser—Professor Yost**

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## German (B.A.)

**Adviser—Professor Hartzell**

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106
### DEPARTMENTAL REQUIREMENTS

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#### PHILOSOPHY AND RELIGION (B.A.)

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### Political Science (B.A.)
**Adviser—Professor E. H. Miller**

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### Psychology (B.S.)
**Adviser—Professor Fletcher**

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### Romance Languages

#### French (B.A.)
**Adviser—Professor Vorrath**

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#### Spanish (B.A.)
**Adviser—Professor Vorrath**

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### Fourth Year for Teachers

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### Sciences

**Biology (B.S.)**  
**Adviser—Professor Wagner**

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**Chemistry (B.S.)**  
**Adviser—Professor Staiger**

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**Physics (B.S.)**  
**Adviser—Professor Heilemann**

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**Preparation for Secondary School Teaching in the Sciences**  
**Advisers—Professor Wagner and Visiting Professor Wessel**

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Advisers—Professor Staiger and Visiting Professor Wessel

III. CONCENTRATION IN PHYSICS

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Advisers—Professor Heilemann and Visiting Professor Wessel

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DEPARTMENTAL REQUIREMENTS

FIVE-YEAR COMBINED LIBERAL ARTS—ENGINEERING PROGRAM

URSINUS COLLEGE (B.A.) THE UNIVERSITY OF PENNSYLVANIA OR OTHER
ENGINEERING SCHOOLS (B.S. in Engr.)  
Advisor—PROFESSOR HEILEMANN

PLAN I FOR ELECTRICAL, CIVIL OR MECHANICAL ENGINEERS

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PLAN II FOR CHEMICAL OR METALLURGICAL ENGINEERS

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STUDENTS WHO WISH TO PREPARE FOR TEACHING, THE MINISTRY, OR FOR ADMISSION TO PROFESSIONAL SCHOOLS OF MEDICINE, DENTISTRY, VETERINARY MEDICINE, LAW, OR NURSING SHOULD REFER TO PAGES 36 TO 38 WHERE SUGGESTED MAJORS ARE INDICATED.
PRIZES, HONORS, DEGREES

AWARDED IN 1965

The American Chemical Society Award — James Edward Scheirer, '65
The John C. Boyer Memorial Prize — Walter Dennis McCoy, '67
The Cub and Key Scholarship — John Landis Gabel, '68
The George Ditter Prize — Cynthia S. Weiler, '65
The Duttera Prize — Linda May Potteiger, '65
The Ehret Prize — Alfred Barry Troster, '66
The Edwin M. Fogel Prize — Allen Frank Helwig, '67
The Philip H. Fogel Memorial Prize — Linda May Potteiger, '65
The Ronald C. Kichline Athletic Prize — Peter Allen Dunn, '65; Henry Frank Hofmann, Jr., '65
The Elizabeth Rockefeller McCain Prize — Susan Irene Hartenstein, '67
The Nitzsche Prize — Edna Gretchen Haak, '65
The Paisley Prize — Cynthia Ann Swan, '66
The Pennsylvania Institute of Certified Public Accountants Award — Bruce David Marsland, '65
The Peters Prize — Harry Edward Manser, '65
The Ellen Beaver Schlaybach Memorial Prize — Edith Ann Clouse, '65
The Robert Truckess Prize — George Milton Miller, '65
The Ursinus Women’s Club Prize — Judith Ann Smiley, '65
The Elizabeth B. White Prize — Mary Ann Wuenschel, '65
The Whittan Prize — Charlotte Ann Frost, '68

COMMENCEMENT HONORS

Valedictorian: Edith Ann Clouse
Salutatorian: Mary Jo Banyai
MAGNA CUM LAUDE: Mary Jo Banyai
CUM LAUDE: Gerald Lee Gorman
Barbara Joan Klie
William Montgomery

DEPARTMENTAL HONORS

Chemistry: James Edward Scheirer
French: Evelyn Margaret McNaull
German: Carlissta Ann Henry
History: Suzanne Ellis Brungart
Psychology: Mary Jo Banyai
Tara Patricia Boyd

CHAPTER SCHOLARS

Mary Jo Banyai
Edith Ann Clouse

DOCTOR OF DIVINITY (Honorary)
Jack Edward Yates

DOCTOR OF HUMANE LETTERS (Honorary)
Elizabeth Murphy Greenfield
Ann Moffo

DOCTOR OF LAWS (Honorary)
Juanita Kidd Stout

DOCTOR OF LETTERS (Honorary)
James Albert Michener

DEGREES, 1965

113
CERTIFICATE OF PROFICIENCY
Ronald Richard Chelli

ASSOCIATE IN ARTS
Wayne Dale Bishop

ASSOCIATE IN BUSINESS ADMINISTRATION
John Joseph Barker
Linwood Franklin Bieler
George Garrett Epright, Jr.
Donald Lee Funk
Charles William Lutter

BACHELOR OF BUSINESS ADMINISTRATION
William James Fraher

BACHELOR OF ARTS
Rudolph Wilton Keehn, Jr.
Grace Elizabeth Killough
Walter Jon Kinderman
Margaret Carolyn King
Leonard George Kuch, III
Constance Ann Laughlin Kuhn
Virginia Grace Lauer
William Francis LeFever
Kathy May Levan
Thomas Russell Lodge
Bruce David Marsland
John Calvin Maynard
Evelyn Margaret McNaul
Marian Anne Meade
George Milton Miller
Sherman Stanton Miller, Jr.
Thomas Zeno Minehart, III
William Montgomery
Valerie Martha Moritz
Perce Albert Musseman
Gloria Suzanna O'Keefe
Richard Lee Ott
Betsy Ann Pearson
Carl Frederick Peek
Earl Charles Pfeiffer
Elwood Reid Pollock
Robert Michael Popowich
Linda May Potteiger
Kenneth Lorenz Prickett
Ronald Allen Pyle
Dennis Joseph Quinn
Leslie Refford
Joseph E. Rhile
Pamela McDonough Riley
William Philip Rimel, III
Donna Marie Romanishin
Jerry Lee Rosenberger
Sharon Gail Rothenberger
Barbara Jeanne Routzahn
William Frederick Schweinfurth
Lynne Trout Sermarini
Anne Shissler
Donald Thomas Simmons
John Howard Slim
Howard Marshall Smith, Jr.
John Auber Smith
PRIZES, HONORS, DEGREES

Neil Harold Snyder
Joel Leidy Spangler
Charles Henry Spencer, Jr.
Richard Kenneth Spomenbergh
Peter Stanson
Kathryn Munger Steele
Lucille Joyce Steinman
Barbara Ann Stetter
Clarence Durrell Stubbs
John Aloysius Taylor, III

Bruce Tiemann
Samuel Clevenger Walker
Gerald Edwin Weaver
Cynthia Weiler
Margaret Werden
Nancy Louise Wilkins
Bruce Stephen Williamson
David Lee Wolf
Mary Ann Wuenschel
Mikelis Gunars Znotens

BACHELOR OF SCIENCE

George Robert Abbe
Mary Jo Banyai
Robert Lake Bateman, Jr.
Janet Lorraine Blyth
Tara Patricia Boyd
Roland Francis Breffitt
Elaine Kay Brown
Beverly Jeanne Browne
Natalie Wood Spahr Bush
Barbara Joyce Cavender
John Dean Clamous
Adrienne Clare
Edith Ann Clouse
Virginia MacMillan Collins
Timothy Trevor Cope
Lawrence James Crabb, Jr.
Claire Alfred Pelton Duffie, III
Diane Cynthia Eichelberger
Deborah Ann Ellis
Louise Arrington Farwell
Kenneth Robert Fetteman
Alfred Lee Findeisen
Nancy Jane Fraser
Lloyd Keith Fretz
Mary Louise Funk
Robert Lee Goldsmith, III
Dennis Alan Hall
Sally Anne Harding
Susan Dale Harman
Horace Craig Heller
Robert Norman Horrocks
Robert Geoffrey Jarmon
Donald Sharp Jeffers
Joanna Graham Johansen
Eve Caroline Kegerize
Michael John Kelly
Dorothy Mae Kemble
Mons Anderson King
Calvin Alfred Klein, Jr.
Barbara Joan Klie
Eric Stephen Kline
Frances Kennedy Knott
Karen Elizabeth Kohn
Robert Morris Krauss, Jr.
Patricia Ann Latcha
Judith Allen Lance
Glenn Hagey Landis
David Alfred Larson
Robert Cresse Leaming
Timothy Allen Lemke
William Leonard Lettinger
George Wood Lilley, Jr.

Joseph Edmund Lippy, Jr.
Bryan Kenneth Long
Frances Ann MacCadden
Harry Judson MacPhee
Joyce Ann Maloney
Harry Edward Manser, Jr.
Curtis George Martin
Charmaine Peacock McKinney
Helis Miido
Mary Ann Mikulik
Lee Clyde Miller
William John Miller, III
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John Calvin Parker
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Paul Pradervand
Edwin Forrest Rauch, Jr.
Dianne Lee Regester
Margaret Ann Reifsneider
Sally Ann Rex
Ellen Virginia Robertson
Donald Herman Rossiter
John Edgar Schatz, Jr.
Kay Elaine Scheidt
James Edward Scheirer
Margaret Louise Weldon Schlick
Edward Calvert Shane
Charles Richard Shank
Ronald Xander Sheeder
John William Siebenson, II
Walter Stephen Siko
Judith Ann Smiley
Charles Peter Souders
Douglas William Squier
Katherine Anastasia Stamford
Vivian Irene Starr
Judith Audrey Stitley
Ronald Keith Stuart
Nicholas Frank Teti
Marilyn Ruth Thomas
Christopher Pelham Unger
Edward Marsena VanDoren
Thomas Lawrence Walter
Robert Wighton, Jr.
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Dickerson, Billie J. Washington, D. C.
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Erb, Louis B. Bethlehem
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Lane, Carole P. Trenton, N. J.
Lapsa, Tom P. Baltimore, Md.
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ALUMNI ASSOCIATION

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THE
URSINUS
COLLEGE
CAMPUS

PRACTICE
FIELDS

PLAYING
FIELD

Woods

DISPOSAL
PLANT

BASEBALL

SOCER

TENNIS

HOCKEY

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

PARKING

KEY TO THE CAMPUS

1. Pfleider Hall of Science (laboratories, classrooms, Evening School)
2. Curtis Hall, dormitory for men
3. Brodbeck Hall, dormitory for men
4. Freeland Hall, with Stine (left) and Derr (right) Halls (dormitories for men)
5. Bomberger Memorial Hall (chapel, classrooms, administration, lounge, recreation, etc.)
6. Post Office and Supply Store
7. Alumni Memorial Library
8. Studio Cottage
9. Infirmary
10. Maintenance Building
11. Paisley, Stauffer, Beardwood Halls, dormitories for women
12. College Gymnasium
13. Thompson-Gay Gymnasium
14. Heating and Power Plant
15. Wismer Hall
16. Dormitory for women, 944 Main Street
17. Dormitory for women, 942 Main Street
18. Fitzcraft Hall, dormitory for men, 940 Main Street
19. Jeannberg Hall, 801 Main Street
20. Dormitory for men, 724 Main Street
20A. Oonwake Hall, dormitory for men, 701 Main Street
21. Dormitory for women, 646 Main Street
22. Zwingli Hall, Alumni, Publicity and Development Office, dormitory for men, 620 Main Street
23. Durysa Hall, dormitory for women, 612 Main Street
24. Shreiner Hall, dormitory for women, 6th Avenue and Main Street
25. South Hall, dormitory for men, 6th Avenue
26. Hobson Hall, dormitory for women, 568 Main Street
27. Fetterolf House, dormitory for men, 554 Main Street
28. Super House, President's home, 542 Main Street
29. Trinity Church, United Church of Christ
30. The Parsonage, 522 Main Street
31. Maples Hall, dormitory for men, 520 Main Street
32. Dormitory for men, 513 Main Street
33. Clamer Hall, dormitory for women, 409 Main Street