


# BLOOMSBURG STATE COLLEGE



1971-1972



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# BLOOMSBURG STATE COLLEGE

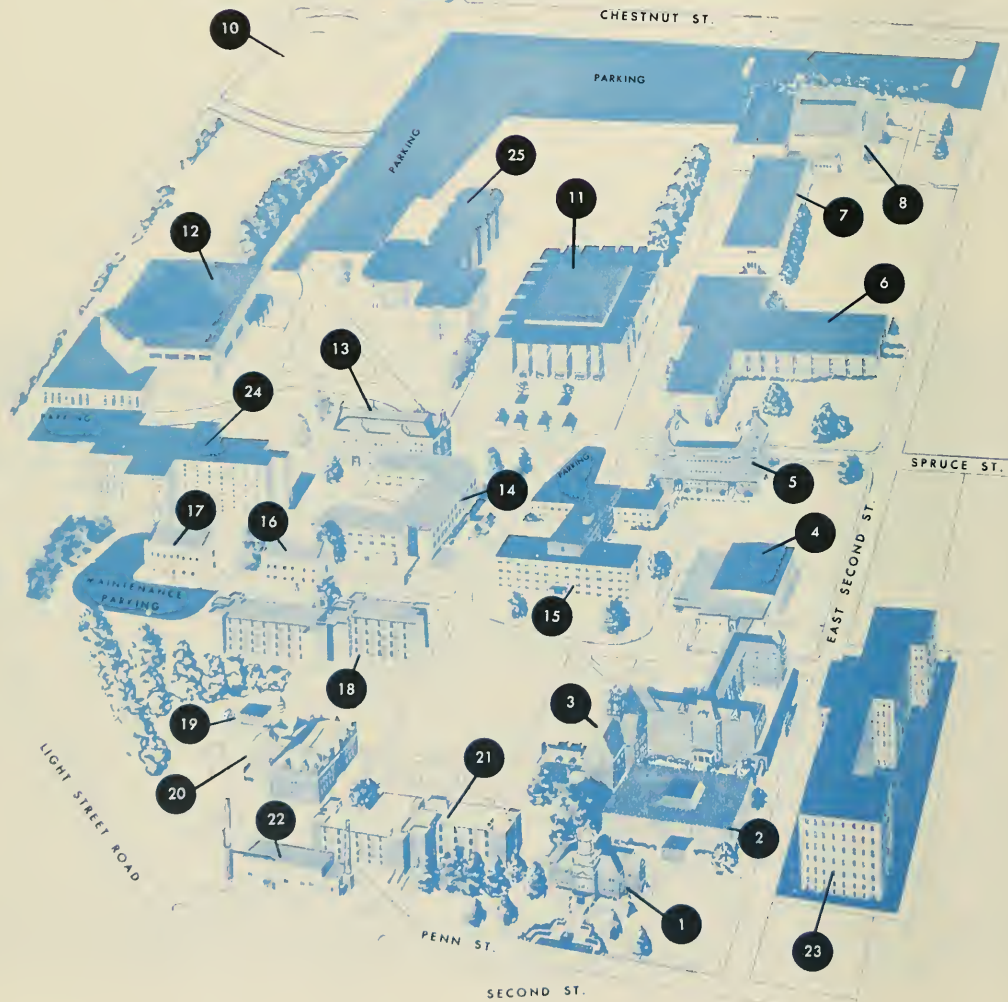
1971-1972

Undergraduate Bulletin



# Bloomsburg State College Campus Guide

1. Carver Hall
2. Scranton Commons
3. Waller Hall
4. Student Union Building (Temporary)
5. Benjamin Franklin Building
6. Hartline Science Center
7. Sutliff Hall
8. Centennial Gymnasium
9. President's Residence
10. Site of New Administration Building
11. Andrus Library
12. Haas Center for the Arts
13. Navy Hall





14. Northumberland Residence Hall (Men)
15. Luzerne Residence Hall (Women)
16. Maintenance Building
17. Laundry
18. Montour Residence Hall (Women)
19. Pergola
20. Science Hall
21. Schuylkill Residence Hall (Women)
22. Heating Plant
23. Elwell Residence Hall (Men)
24. Columbia Residence Hall (Women)
25. Bakeless Center for the Humanities
26. Maintenance Building

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# COLLEGE CALENDAR 1971-1972

## FIRST SEMESTER

Registration	Wednesday, September 8
Registration - Evening Students	Wednesday, September 8
Classes Begin - 8:00 A.M.	Thursday, September 9
Registration - Graduate Students	Monday, September 13
Classes Begin for Graduate Students	Tuesday, September 14
Thanksgiving Recess Begins - 5:00 P.M.	Wednesday, November 24
Classes Resume - 8:00 A.M.	Monday, November 29
Christmas Recess Begins - 5:00 P.M.	Friday, December 17
Classes Resume - 8:00 a.m.	Monday, January 3
Final Examinations Begin	Monday, January 10
Final Examinations End	Friday, January 14
First Semester Ends at Close of Examinations	Friday, January 14

## SECOND SEMESTER

Registration	Monday, January 24
Registration - Evening Students	Tuesday, January 25
Classes Begin - 8:00 A.M.	Wednesday, January 26
Registration - Graduate Students	Wednesday, January 26
Classes Begin for Graduate Students	Thursday, January 27
Spring Recess Begins - 5:00 P.M.	Tuesday, March 28
Classes Resume - 8:00 A.M.	Monday, April 10
Final Examinations Begin	Monday, May 22
Final Examinations End	Friday, May 26
Second Semester Ends at Close of Examinations	Friday, May 26
Commencement	Sunday, May 28

## SUMMER SESSIONS 1972

First Six Weeks — June 5 - July 14  
Second Six Weeks — July 17 - August 25



## BOARD OF TRUSTEES Bloomsburg State College

(as of January, 1971)

Mr. William A. Lank, President	Bloomsburg
Mr. William E. Booth, Vice President	Danville
Mr. E. Guy Bangs, Secretary-Treasurer	R. D. 1, Orangeville
Mr. Gerald A. Beierschmitt	Mount Carmel
Mr. Frank D. Croop	Berwick
Mr. Edgar A. Fenstermacher	R. D. 2, Berwick
The Honorable George W. Heffner	Pottsville
The Honorable Bernard J. Kelley	Philadelphia

### ADVISORS TO THE BOARD OF TRUSTEES

Mr. Gerald H. Strauss	Faculty
Mr. Howard F. Fenstemaker	Alumni
Mr. Michael A. Pillgalli	Students

# STATE DEPARTMENT OF EDUCATION

Commonwealth of Pennsylvania

David H. Kurtzman, *Secretary of Education*  
*Chairman, Board of State College Presidents*  
*Ex-Officio Member, Board of Trustees*

Neal V. Musmanno, *Deputy Secretary of Education*  
Frederic K. Miller, *Commissioner for Higher Education*

## BOARD OF STATE COLLEGE AND UNIVERSITY DIRECTORS

(as of April, 1971)

Arthur B. Sinkler, *Chairman*  
*Lancaster*

Patricia Matthews Coghlan, *Beaver Falls*  
Ronald R. Davenport, *Pittsburgh*  
Andrew N. Farnese, *Philadelphia*  
Howard S. Fernsler, *Pottsville*  
John P. Garneau, *Clarion*  
Rebecca F. Gross, *Lock Haven*  
Caryl M. Kline, *Pittsburgh*  
Grant H. Giesch, *Fredericktown*  
Irving O. Murphy, *Fairview*  
Percy D. Mitchell, *Williamsport*  
H. Ray Pope, Jr., *Clarion*  
Mervin G. Sneath, *King of Prussia*  
Dr. John B. Veltri, *Pittsburgh*  
Dr. George D. Wolf, *Camp Hill*



# ADMINISTRATION AND FACULTY, 1970-71

(as of February, 1971)



*Robert J. Nossen*

- ROBERT J. NOSSEN *President*  
University of California, A.B.; Northwestern University, M.A., Ph.D.
- JOHN A. HOCH *Vice President, Dean of the Faculties*  
The Pennsylvania State University, A.B.; Bucknell University, M.A.; The  
Pennsylvania State University, Ed.D. (1946)\*
- DON B. SPRINGMAN *Vice President for Administrative Services*  
Michigan State University, B.A.; Eastern Michigan University, M.A.; Western  
Reserve University, Ed.D. (1971)
- BOYD F. BUCKINGHAM *Associate Vice President for  
Development and External Relations*  
Bloomsburg State College, B.S.; Bucknell University, M.S. (1953)
- ELTON HUNSINGER *Associate Vice President for Student Affairs*  
East Stroudsburg State College, B.S.; Bucknell University, M.A. (1961)
- ROBERT L. BUNGE *Registrar*  
Bloomsburg State College, B.S.; Bucknell University, M.S. (1964)
- CHARLES H. CARLSON *Dean, School of Graduate Studies, and  
Director of Research Activities*  
San Jose State College, B.A.; Teachers College, Columbia University, M.A.,  
Ed.D. (1959)

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\* The date in parentheses represents the date of appointment to the Bloomsburg State College Faculty.



*John A. Hoch*



*Don B. Springman*



*Elton Hunsinger*



Boyd F. Buckingham



Charles H. Carlson



C. Stuart Edwards

- T. L. COOPER *Director of Admissions*  
Morehead State University, A.B.; The Pennsylvania State University, M.Ed.  
(1970)
- JAMES B. CREASY *Director of Continuing Education  
and Summer Sessions*  
Bloomsburg State College, B.S.; Bucknell University, M.S.B.A. (1960)
- FRANK S. DAVIS, JR. *Director of Computer Services Center*  
Shippensburg State College, B.S., M.Ed. (1969)
- THOMAS A. DAVIES *Director of Placement*  
Waynesburg College, B.A.; Duquesne University, M.Ed. (1964)
- EDSON J. DRAKE *Dean, School of Arts and Sciences*  
University of Notre Dame, B.A.; Georgetown University, M.A., Ph.D.  
(1964)
- C. STUART EDWARDS *Dean, School of Professional Studies*  
Bloomsburg State College, B.S.; The Pennsylvania State University, M.Ed.,  
Ed.D. (1958)
- DAVID C. EVANS *Admissions Counselor*  
Slippery Rock State College, B.A.; Rutgers, The State University, M.Ed.  
(1970)
- E. BUREL GUM *Assistant Director of Admissions*  
Bloomsburg State College, B.S.; Bucknell University, M.S.B.A. (1970)
- RUSSELL W. GUTHRIE *Educational Technical Specialist*  
Mansfield State College, B.S. (1970)
- HOBART F. HELLER *Professor-at-Large*  
Gettysburg College, B.S.; Columbia University, M.A., Ph.D. (1970)
- KENNETH C. HOFFMAN *Director of Publications*  
The Pennsylvania State University, B.A. (1970)
- PAUL G. MARTIN *Business Manager*  
Bloomsburg State College, B.S. (1950)
- MARILYN MUEHLHOF *Secretary to the President*
- JOHN R. QUATROCHE *Assistant to the President*  
State University of New York, College at Fredonia, B.A., M.S. (1970)
- EMORY W. RARIG, JR. *Dean, School of Business*  
Bloomsburg State College, B.S.; Teachers College, Columbia University,  
M.A., Ed.D. (1968)



Edson J. Drake



Emory W. Rarig, Jr.



John R. Quatroche

- MERRITT W. SANDERS *Director of Institutional Studies*  
Drew University, A.B., B.D.; New York University, Ph.D. (1966)
- KENNETH D. SCHNURE *Assistant Registrar*  
Bloomsburg State College, B.S. (1970)
- JAMES B. WATTS *Director of Library Services*  
Birmingham-Southern College, A.B.; George Peabody College, M.S.L.S. (1966)

## 1970-71 ACADEMIC YEAR

- WILLIAM A. ACIERNO, Assistant Professor *Speech*  
University of Pittsburgh, B.A.; Carnegie Institute of Technology, M.F.A. (1966)
- BRUCE E. ADAMS, Professor *Geography*  
Lock Haven State College, B.S.; The Pennsylvania State University, M.Ed., Ed.D. (1956)
- H. M. AFSHAR, Professor *Chairman, Educational Studies and Services*  
University of Teheran, B.A.; University of Florida, M.Ed., Ed.D. (1966)
- RICHARD D. ALDERFER, Associate Professor *Speech*  
Bluffton College, B.A.; Temple University, M.Ed. (1967)
- BEN C. ALTER, Assistant Professor *Foreign Languages*  
Susquehanna University, B.A.; University of Maine, M.Ed. (1964)
- M. DALE ANDERSON, Associate Professor *English*  
Nebraska Christian College, B.S.L.; Fort Hays Kansas State College, M.A. (1965)
- RICHARD G. ANDERSON, Associate Professor *History*  
Western Kentucky State College, B.A.; Texas Christian University, M.A., Ph.D. (1968)
- BENJAMIN S. ANDREWS, Associate Professor *Communication Disorders*  
University of Virginia, B.S.; State University of Iowa, M.A. (1968)
- LEE E. AUMILLER, Professor *Chairman, Secondary Education*  
The Pennsylvania State University, B.S., Ed.D.; Bucknell University, M.Ed. (1961)

- JOAN M. AUTEN, Instructor *Health and Physical Education*  
West Chester State College, B.S.; East Stroudsburg State College, M.Ed.  
(1968)
- RAYMOND E. BABINEAU, Assistant Professor *Secondary Education*  
Montclair State College, B.A., M.A. (1969)
- HAROLD J. BAILEY, Assistant Professor *Mathematics*  
Albright College, B.S.; The Pennsylvania State University, M.Ed. (1969)
- J. WESTON BAKER, Assistant Professor *Business*  
University of California at Berkeley, B.S.; Washington State University,  
M.B.A. (1969)
- DONALD R. BASHORE, Associate Professor *Psychology*  
Susquehanna University, B.A.; The Pennsylvania State University, M.Ed.  
(1960)
- UJAGAR S. BAWA, Professor *Economics*  
Punjab University, B.A., M.A.; University of Pennsylvania, A.M.; Cornell  
University, Ph.D. (1970)
- MONA G. EL BAYADI, Instructor *Economics*  
American University, Cairo, Egypt, B.A.; Syracuse University, M.A. (1971)
- CHARLES M. BAYLER, Assistant Professor *Business*  
Susquehanna University, B.S.; Bucknell University, M.S.B.A., C.P.A. (1965)
- JACK S. BEMIS, Associate Professor *Music*  
Ithaca College, B.S.; Eastman School of Music of the University of  
Rochester, M.M., Ph.D. (1968)
- BARRETT W. BENSON, Associate Professor *Chemistry*  
Middlebury College, A.B.; University of Vermont, Ph.D. (1967)
- DAVID A. BENSON, Assistant Professor *Sociology*  
Washington University, A.B. (1970)
- RONALD J. BERCHERT, Assistant Professor *Art*  
Eastern Illinois University, B.S.; University of Illinois, A.M. (1970)
- DEVINDER K. BHATIA, Assistant Professor *Economics*  
Delhi University, B.S.C.; Punjab University, M.A.; The Pennsylvania State  
University, M.A. (1970)
- WESLEY E. BLAMICK, Associate Professor *Secondary Education*  
Bethany College, B.S.; University of Pittsburgh, Ed.M.; University of  
Florida, Ed.S, Ed.D. (1969)
- RODRICK CLARK BOLER, Assistant Professor *Health and Physical Education*  
University of Alabama, B.S., M.A. (1968)
- MICHAEL A. BONACCI, Instructor *Assistant Dean of Student Affairs*  
Bloomsburg State College, B.S., M.Ed. (1970)
- RONALD F. BOWER, Assistant Professor *Art*  
Kutztown State College, B.S., M.Ed. (1969)
- CHARLES M. BRENNAN, Associate Professor *Mathematics*  
Bloomsburg State College, B.S. Ed.; Montclair State College, M.A. (1966)
- STEPHEN M. BRESSETT, Associate Professor *Health and Physical Education*  
Springfield College, B.S.; Rutgers University, M.Ed.; Springfield College,  
P.E.D. (1969)



- RICHARD J. BROOK, Assistant Professor *Philosophy*  
 Antioch College, B.A.; Columbia University, M.A. (1967)
- LEROY H. BROWN, Associate Professor *Mathematics*  
 Lock Haven State College, B.S.; The Pennsylvania State University, M.Ed.  
 (1965)
- JAMES D. BRYDEN, Professor *Chairman, Communication Disorders*  
 College of William and Mary, B.A.; University of Virginia, M.Ed., Ed.D.  
 (1969)
- KAY F. CAMPLESE, Instructor *Student Counselor*  
 West Virginia University, A.B., M.A. (1969)
- WILLIAM L. CARLOUGH, Professor *Chairman, Philosophy*  
 Hope College, B.A.; Western Theological Seminary, B.D.; General Theological  
 Seminary, S.T.M.; New York University, Ph.D. (1964)
- C. WHITNEY CARPENTER, II, Professor *Foreign Languages*  
 Cornell University, A.B.; University of Southern California, M.A.; New York  
 University, Ph.D. (1966)
- JENNIE H. CARPENTER, Assistant Professor *Assistant Dean of Student Affairs*  
 University of Oklahoma, B.A.; University of Alabama, M.A. (1968)
- SUSANNA W. CHANG, Instructor *Library, Cataloger*  
 Providence College, Taichung, Taiwan, A.B.; Syracuse University, M.S.L.S.  
 (1969)
- WILLARD A. CHRISTIAN, Associate Professor *Business*  
 Bloomsburg State College, B.S.; Bucknell University, M.S. (1968)
- JAMES E. COLE, Associate Professor *Biological Sciences*  
 Western Michigan University, B.A., M.A.; Illinois State University, Ph.D.  
 (1968)
- JOSEPH A. CORTESE, Instructor *Assistant Dean of Student Affairs*  
 Bloomsburg State College, B.A.; Ohio State University, M.A. (1969)
- SYLVIA H. CRONIN, Associate Professor *Music*  
 Rhode Island College of Education, B.Ed., M.Ed.; The Pennsylvania State  
 University, M.Ed. (1964)
- ROBERT G. DAVENPORT, Associate Professor *Student Counselor*  
 Bucknell University, B.S., M.S. (1961)
- MARY L. DECKER, Instructor *Music*  
 Eastman School of Music of the University of Rochester, B.S., M.M. (1964)
- WILLIAM K. DECKER, Associate Professor *Chairman, Music*  
 Eastman School of Music of the University of Rochester, B.M., M.M. (1963)
- JOSEPH A. DE FELICE, Assistant Professor *Sociology*  
 The Pennsylvania State University, B.S.; University of Pittsburgh, M.S.W.  
 (1970)
- BLAISE DELNIS, Assistant Professor *Foreign Languages*  
 Lukow University, A.B.; Fordham University, M.A. (1965)
- JOHN E. DENNEN, Assistant Professor *Business*  
 Bloomsburg State College B.S.; Bucknell University, M.S. (1965)
- JERRY L. DENSTORFF, Assistant Professor *Health and Physical Education*  
 Evansville University, B.S.; Indiana University, M.Ed. (1968)

- RICHARD S. DEVLIN, Instructor *English*  
Mansfield State College, B.S. (1969)
- JOHN C. DIETRICH, Associate Professor *History*  
Capital University, A.B.; Ohio State University, M.A. (1965)
- LESTER J. DIETTERICK, Assistant Professor *Business*  
Bloomsburg State College, B.S., M.S. (1966)
- BERNARD C. DILL, Associate Professor *Business*  
The Pennsylvania State University, B.S., M.B.A. (1968)
- BARBARA M. DILWORTH, Assistant Professor *Economics*  
Chestnut Hill, B.A.; University of Pennsylvania, M.A. (1966)
- DOYLE G. DODSON, Assistant Professor *Business*  
Bloomsburg State College, B.S., M.Ed. (1967)
- VIRGINIA C. DOERFLINGER, Assistant Professor *Speech*  
New York University, B.S.; Columbia University, M.A. (1968)
- RICHARD J. DONALD, Assistant Professor *Elementary Education*  
East Stroudsburg State College, B.S.; Kansas State University, M.S. (1968)
- VIRGINIA A. DUCK, Assistant Professor *English*  
The Pennsylvania State University, B.A.; Bucknell University, M.A. (1958)
- ROBERT L. DUNCAN, Associate Professor *Director of Student Financial Aid*  
DePauw University, A.B.; Butler University, M.S. (1969)
- WILLIAM D. EISENBERG, Associate Professor *English*  
University of Delaware, B.A.; Lehigh University, M.A. (1960)
- DONALD E. ENDERS, Associate Professor *Secondary Education*  
Gettysburg College, B.S.; New York University, M.A.; The Pennsylvania State University, Ed.D. (1968)
- JOHN A. ENMAN, Professor *Geography*  
University of Maine, B.A.; Harvard University, M.A.; University of Pittsburgh, Ph.D. (1959)
- PHILLIP A. FARBER, Associate Professor *Biological Sciences*  
King's College, B.S.; Boston College, M.S.; Catholic University, Ph.D. (1966)
- RONALD A. FERDOCK, Associate Professor *English*  
St. Vincent College, A.B.; The Pennsylvania State University, M.A. (1965)
- ROBERT H. FINKS, Instructor *Psychology*  
The Pennsylvania State University, B.S.; Miami University, M.A. (1968)
- JOHN R. FLETCHER, Instructor *Biological Sciences*  
Bloomsburg State College, B.S., M.Ed. (1969)
- VICTOR X. FONGEMIE, Associate Professor *Psychology*  
University of Maine, B.A., M.A., Ph.D. (1970)
- ARIADNA FOUREMAN, Associate Professor *Chairman, Foreign Languages*  
The Ohio State University, B.A., M.A., Ph.D. (1969)
- WENDELIN R. FRANTZ, Professor *Chairman, Geography*  
College of Wooster, A.B.; University of Pittsburgh, M.S., Ph.D. (1968)
- ERICH F. FROHMAN, Associate Professor *Speech*  
Columbia College, B.A.; Syracuse University, M.A. (1966)
- P. JOSEPH GARCIA, Assistant Professor *Physics*  
Kent State University, B.S.; New Mexico Highlands University, M.S. (1968)

- HALBERT F. GATES, Professor *Chairman, Physics*  
Milwaukee State Teachers College, B.S.; University of Wisconsin, Ph.M.;  
Michigan State University, Ph.D. (1969)
- MICHAEL W. GAYNOR, Associate Professor *Psychology*  
Muhlenberg College, B.A.; Lehigh University, M.S.; Colorado State Univer-  
sity, Ph.D. (1970)
- GEORGE J. GELLOS, Associate Professor *Biological Sciences*  
Muhlenberg College, B.S.; Ohio University, M.S.; The Pennsylvania State  
University, Ph.D. (1965)
- MARTIN M. GILDEA, Assistant Professor *Political Science*  
St. Vincent College, B.A.; University of Notre Dame, M.A. (1966)
- NANCY E. GILL, Instructor *English*  
Washington State University, B.A., M.A. (1968)
- GLENN A. GOOD, Associate Professor *Secondary Education*  
Bucknell University, B.S., M.S.; The Pennsylvania State University, Ed.D.  
(1969)
- NIRANJAN GOSWAMI, Assistant Professor *Art*  
Government Sanskrit College, I.A., B.A.; Calcutta University, M.A. (1969)
- DAVID A. GREENWALD, Assistant Professor *Sociology*  
University of Pennsylvania, B.A.; University of California at Berkeley, M.A.,  
Ph.D. (1970)
- JOANNE S. GROWNEY, Associate Professor *Mathematics*  
Westminster College, B.S.; Temple University, M.A.; University of Okla-  
homa, Ph.D. (1969)
- ERVENE F. GULLEY, Instructor *English*  
Bucknell University, A.B.; Lehigh University, M.A. (1970)
- HANS KARL GUNTHER, Professor *History*  
Washington University, A.B., M.A.; Stanford University, Ph.D. (1965)
- DAVID J. HARPER, Professor *Physics*  
University of Nottingham, B.S., Ph.D. (1966)
- PAUL G. HARTUNG, Assistant Professor *Mathematics*  
Montclair State College, B.A.; University of Colorado, M.A. (1968)
- JOHN E. HARTZEL, Assistant Professor *Business*  
Bloomsburg State College, B.S.; Lehigh University, M.Ed. (1970)
- RICHARD B. HAUPT, Instructor *Assistant Dean of Student Affairs*  
Shippensburg State College, B.S., M.Ed. (1968)
- MICHAEL HERBERT, Professor *Biological Sciences*  
University of Maryland, B.S.; Lehigh University, Ph.D. (1963)
- RALPH S. HERRE, Professor *History*  
Colgate University, B.S.; State University of New York at Albany, M.A.;  
The Pennsylvania State University, Ed.D (1947)
- NORMAL L. HILGAR, Associate Professor *Business*  
Grove City College, B.S.; University of Pittsburgh, M.A. (1956)
- CRAIG L. HIMES, Associate Professor *Biological Sciences*  
Clarion State College, B.S.; University of Pittsburgh, M.S. (1961)
- CLAYTON H. HINKEL, Associate Professor *Business*  
Bloomsburg State College, B.S.; Temple University, M.Ed. (1947)

- MELVILLE HOPKINS, Professor *Chairman, Speech*  
 Bucknell University, A.B., M.A.; The Pennsylvania State University, Ph.D.  
 (1960)
- LEE C. HOPPLE, Associate Professor *Geography*  
 Kutztown State College, B.S.; The Pennsylvania State University, M.S.  
 (1961)
- JEAN M. HORN, Instructor *Mathematics*  
 Elmira College, B.A.; The Pennsylvania State University, M.A. (1971)
- WILLIAM A. HORN, Assistant Professor *Special Education*  
 Waynesburg College, A.B.; West Virginia University, M.A. (1970)
- MARK A. HORNBERGER, Assistant Professor *Geography*  
 Bloomsburg State College, B.S.; Southern Illinois University, M.A. (1970)
- RUSSELL E. HOUK, Associate Professor *Chairman, Athletics,  
 Intramurals, and Recreation*  
 Lock Haven State College, B.S.; Bucknell University, M.S. (1957)
- MARGARET J. HYKES, Assistant Professor *Business*  
 Indiana State College, B.S.; The Pennsylvania State University, M.Ed.  
 (1961)
- RALPH R. IRELAND, Professor *Chairman, Sociology*  
 University of Toronto, B.A., M.A.; University of Chicago, Ph.D. (1969)
- CHARLES G. JACKSON, Associate Professor *Political Science*  
 Westminster College, A.B.; University of North Carolina, M.A. (1960)
- ELLAMAE JACKSON, Associate Professor *Dean of Students*  
 West Chester State College, B.S.; The Pennsylvania State University, M.Ed.  
 (1961)
- MARY LOU JOHN, Associate Professor *Foreign Languages*  
 Bloomsburg State College, B.S.; Bucknell University, M.A. (1959)
- BRIAN A. JOHNSON, Assistant Professor *Geography*  
 Indiana University of Pennsylvania, B.S., M.Ed. (1967)
- ROYCE O. JOHNSON, Professor *Elementary Education*  
 Lock Haven State College, B.S.; University of Pittsburgh, M.Ed.; The Penn-  
 sylvania State University, Ed.D. (1958)
- WARREN I. JOHNSON, Associate Professor *Chairman, Elementary Education*  
 West Chester State College, B.S.; The Pennsylvania State University, M.Ed.  
 (1952)
- JACK A. JONES, Professor *Health and Physical Education*  
 Livingston State College, B.S.; University of Alabama, M.A.; Indiana Univer-  
 sity, P.E.D., (1969)
- WILLIAM L. JONES, Professor *Director, Division of Human  
 Resources and Services*  
 University of Nebraska, B.S., M.Ed., Ed.D. (1964)
- PRAKASH C. KAPIL, Associate Professor *Political Science*  
 University of Delhi, B.A., M.A.; University of Rhode Island, M.A. (1967)
- ANDREW J. KARPINSKI, Professor *Special Education*  
 The Pennsylvania State University, B.S., M.Ed., Ed.D. (1967)
- MARTIN M. KELLER, Associate Professor *Secondary Education*  
 Indiana State College, B.S.; University of Pittsburgh, M.Ed. (1961)



- MARGARET A. KELLY, Instructor *Library, Ass't. Reference Librarian*  
College of New Rochelle, A.B.; University of Pittsburgh, M.L.S. (1969)
- LANE L. KEMLER, Instructor *Business*  
Bloomsburg State College, B.S., M.Ed. (1968)
- KENNETH G. KIRK, Assistant Professor *Business*  
Bloomsburg State College, B.S.; The Pennsylvania State University, M.Ed. (1966)
- JEROME J. KLENNER, Associate Professor *Biological Sciences*  
St. Francis College, B.S.; University of Pittsburgh, M.S.; University of Notre Dame, Ph.D. (1966)
- ROBERT L. KLINEDINST, Associate Professor *Mathematics*  
Gettysburg College, B.A. (1966)
- JOEL E. KLINGMAN, Assistant Professor *Elementary Education*  
Lock Haven State College, B.S.; Temple University, M.Ed. (1968)
- JUDITH A. KONCSOL, Instructor *Assistant Dean of Student Affairs*  
North Dakota State University, B.A.; Colorado State College, M.A. (1969)
- CHARLES C. KOPP, Professor *English*  
Frostburg State College, B.S.; West Virginia University, M.A.; The Pennsylvania State University, Ph.D. (1960)
- ROBERT B. KOSLOSKY, Assistant Professor *Art*  
Kutztown State College, B.S., M.Ed. (1970)
- JULIUS R. KROSCHESKY, Professor *Biological Sciences*  
University of Texas, B.A., M.A., Ph.D. (1967)
- HAROLD H. LANTERMAN, Professor *Chemistry*  
Bloomsburg State College, B.S.; New York University, M.A.; The Pennsylvania State University, Ed.D. (1946)
- OLIVER J. LARMI, Assistant Professor *Philosophy*  
Dartmouth College, A.B. (1968)
- MARGARET READ LAUER, Assistant Professor *English*  
University of Michigan, A.B.; Indiana University, M.A. (1966)
- JAMES R. LAUFFER, Assistant Professor *Geography*  
Allegheny College, B.S.; University of Hawaii, M.S. (1966)
- MARGARET LEFEVRE, Professor *Communication Disorders*  
Western Michigan University, A.B.; University of Minnesota, M.A.; Western Reserve University, Ph.D. (1964)
- ELLEN L. LENSING, Professor *Business*  
Wisconsin State College, B.Ed.; University of Wisconsin, M.S.; Ph.D. (1963)
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West Chester State College, B.S.; Temple University, M.Ed.; University of Pennsylvania M.S. (1967)
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University, Ph.D. (1968)
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Fairmont State College, B.S.; University of Pittsburgh, M.S. (1970)
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University of Pennsylvania, B.A.; Southern Illinois University, M.A.;  
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The Pennsylvania State University, B.S., M.Ed.; University of Delaware,  
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 (1965)
- JAMES W. PERCEY, Associate Professor *Political Science*  
 University of Pennsylvania, A.B.; Rutgers University, M.A. (1965)
- JAMES D. PIETRANGELI, Associate Professor *Psychology*  
 University of Virginia, B.A.; Kent State University, M.A. (1970)
- JOSEPH R. PIFER, Instructor *Geography*  
 Clarion State College, B.S.; Arizona State University, M.A. (1969)
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 California State College, B.S.; The Pennsylvania State University, M.Ed.  
 (1960)
- JANE J. PLUMPIS, Associate Professor *Sociology*  
 Lock Haven State College, B.S.; St. Bonaventure University, M.A. (1967)
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 University of Kansas, B.S., M.S. (1969)
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 University of Pennsylvania, A.B.; Drexel Institute of Technology, B.S.L.S.  
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 Drew University, A.B.; Lehigh University, M.A., Ph.D. (1966)
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 Lock Haven State College, B.S.; West Chester State College, M.A. (1966)
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 Duke University, A.B.; Montclair State College, M.A. (1962)
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Ohio State University, A.B., M.A. (1963)
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Washington State University, B.A.; The State University of Rutgers, Ed.M.,  
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Miami University, B.S.; Indiana University, M.S. (1969)
- SUSAN RUSINKO, Associate Professor *English*  
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Ohio State University, B.S., M.S. (1963)
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Knox College, A.B.; State University of Iowa, M.S. (1959)
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Grenoble, Middlebury, Hautes Etudes Diplome Bordeaux-Toulouse (1967)
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University of Pennsylvania, A.B., M.A. (1960)

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Bridgewater College, B.A.; University of Arizona, M.A., Ph.D. (1968)
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Syracuse University, A.B.; Brooklyn College, M.S. (1969)
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Philadelphia College of Bible, B.S.; Temple University, B.M.Ed., M.M.  
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## Part-Time Faculty

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 West Virginia University, M.A., Ed.D. (1971)
- MARY L. HOPKINS, Instructor *Public School Nursing*  
 Teachers College, Columbia University, B.S.; M.A. (1970)
- GERALD L. JOHNSON, Associate Professor *Communication Disorders*  
 Westmar College, B.A.; University of Omaha, M.S. (1971)
- JOAN A. KILE, Instructor *Public School Nursing*  
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 State University of New York, College at Fredonia, B.S. (1970)

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## College Services

LLOYD H. ANDERSON *Purchasing Agent*

HELEN BARKAUSKAS *Manager, College Bookstore*

GEORGE R. BIRNEY *Personnel Officer*

PAUL L. CONARD *Assistant Business Manager*  
 Bloomsburg State College, B.S.

BRUCE C. DIETTERICK *Information Specialist*  
 The Pennsylvania State University, B.A.

THOMAS A. GORREY *Superintendent of Grounds  
 and Buildings*

DONALD E. HOCK *Budget Analyst*  
 Bloomsburg State College, B.A.

C. DONALD HOUSENICK *Assistant Director of  
 Computer Services Center*

CHARLES A. ROBBINS *Assistant Superintendent of  
 Grounds and Buildings*  
 Bloomsburg State College, B.S.

DAVID S. RUCKLE *Chief Security Officer*

JOHN J. TRATHEN *Comptroller,  
 Community Activities*  
 Bloomsburg State College, B.S., M.Ed.

## Faculty Emeriti

HARVEY A. ANDRUSS, President Emeritus (September, 1969)\*

LUCILE J. BAKER (May, 1956)

IVA MAE V. BECKLEY (May, 1970)

ERNEST H. ENGELHARDT (August, 1968)

BEATRICE M. ENGLEHART (August, 1970)

HOWARD F. FENSTEMAKER (May, 1963)

WILLIAM C. FORNEY (May, 1959)

C. M. HAUSKNECHT (July, 1950)

EDNA J. HAZEN (January, 1958)

ELINOR R. KEEFER (July, 1968)

MARGUERITE W. KEHR (June, 1953)

PEARL MASON KELLER (May, 1945)

KIMBER C. KUSTER (May, 1962)



MARY E. MacDONALD (May, 1969)  
LUCY McCAMMON (January, 1958)  
ETHEL A. RANSON (January, 1954)  
J. ALMUS RUSSELL (May, 1965)  
WALTER S. RYGIEL (January, 1968)  
M. BEATRICE METTLER SAHLE (May, 1969)  
RUSSELL F. SCHLEICHER (May, 1962)  
ANNA GARRISON SCOTT (May, 1956)  
MARGARET E. WALDRON (January, 1956)  
ELIZABETH B. WILLIAMS (August, 1969)  
GRACE H. WOOLWORTH (May, 1956)

\*The date in parentheses is date of retirement.







# 1. GENERAL INFORMATION

## 1.1 INTRODUCTION

Bloomsburg State College, one of fourteen state-owned institutions serving the needs for public higher education in Pennsylvania, has been charged to serve as a Center of Learning “for the best possible education of the youth of Pennsylvania in the Arts and Sciences, and to provide able and dedicated teachers . . . .” During the past decade, the college has expanded its physical facilities and has grown significantly in enrollment. More important, however, it has moved in a number of ways to strengthen its academic departments and to expand the range of its services. Pre-professional programs, Continuing Education, opportunities for re-education, and programs in the health-related sciences have been added to the existing programs in Business, Teacher Education, and the Arts and Sciences. Of special importance is the growth of its graduate programs, again for purposes of serving not only in-service teachers, but in helping to meet many of the manpower needs of the region. The faculty must keep abreast of developments in human knowledge, and the college must be concerned, too, for helping persons to make meaningful use of leisure time.

Bloomsburg State College, along with the other state-owned institutions, is only beginning to realize its full potential and to exert its full influence upon the economic, cultural, and social welfare of the Commonwealth. The college seeks to use fully its resources and facilities on behalf of the needs of the people of the state; it welcomes qualified students, faculty, and staff from all racial, religious, ethnic, and socioeconomic backgrounds.

## 1.2 LOCATION

The Town of Bloomsburg, county seat of Columbia County, is an industrial, trading, and residence community of 11,000 located on Route 11, 80 miles north of Harrisburg. It is within two miles of two interchanges of Interstate 80. The 170-acre college campus occupies an attractive site on high ground overlooking the town and the Susquehanna River.

Bloomsburg is served by the Greyhound and Continental Trailways bus lines. Commercial airports are accessible at Hazleton near Route 80, at Wilkes-Barre-Scranton on Route 81, and at Williamsport; each is about an hour’s drive from Bloomsburg.



### 1.3 HISTORY

An academy "to teach youth the elements of a classical education" was established in Bloomsburg in 1839. The academy continued with varied fortunes until 1856, when a charter was prepared and stock issued to reorganize as **Bloomsburg Literary Institute**. A building now known as Carver Hall in memory of Henry Carver, principal at the time, was erected in 1867 on the site of the present campus.

It was largely through the efforts of J. P. Wickersham, Superintendent of Public Instruction, that **Bloomsburg Literary Institute** became **Bloomsburg Literary Institute and State Normal School** in 1869; it continued under this name and organization until 1916, when it was purchased by the Commonwealth and called **Bloomsburg State Normal School**.

Although the high school movement was spreading rapidly in the late nineteenth and early twentieth centuries, the preparatory curriculum was continued until 1920; meanwhile a two-year post high school program dedicated to professional preparation of teachers for the elementary schools was being inaugurated and strengthened. Teacher education became the sole institutional purpose in 1920.

In 1927, the name of the school was changed to **Bloomsburg State Teachers College** and authority was granted to offer the degree, Bachelor of Science in Education, for curricula for teaching in secondary and elementary schools. This, together with changes in teacher certification, led to the phasing out of

the non-degree curricula. In 1930, the offerings were extended to include the special field of business education. A division of Special Education was inaugurated in 1957, although the College had offered certification programs in this area as early as the 1940's.

In 1960 the name of the school was changed to Bloomsburg State College; authorization was received shortly thereafter to grant the degree, Bachelor of Arts, for liberal arts programs in humanities, social sciences, and natural sciences. In 1960 graduate study leading to the Master of Education degree was inaugurated; in 1968 initial approval was received for the degree, Master of Arts.

Current efforts are directed toward development as a multiple-purpose college offering liberal arts and teacher education curricula at the undergraduate and master's degree levels, and business and other professional curricula in vocations other than teaching as these are suited to the resources of the College.

#### **1.4 ACCREDITATION**

Bloomsburg State College is fully accredited by the Middle States Association of Colleges and Secondary Schools, the National Council for the Accreditation of Teacher Education, and the Pennsylvania State Board of Education. The college is also preparing to meet the criteria for specific professional agencies.

#### **1.5 BUILDINGS**

##### **Instructional Buildings**

Bakeless Center for the Humanities, completed in 1970, is an air-conditioned building containing classrooms, lecture halls, faculty offices, and an exhibit area. It is used primarily by the departments of English, art, and foreign languages. The building was named for the Bakeless family, including Professor Oscar H. Bakeless, a graduate of the school and former distinguished member of the faculty; his wife, Sara H. Bakeless, a graduate and former faculty member; their son, Dr. John E. Bakeless, a graduate of the college, an author, and a recipient of the Alumni Distinguished Service Award; their daughter, Mrs. Alex Nason, a graduate and benefactor of the college; and their daughter-in-law, Mrs. Katherine L. Bakeless, a graduate of the school and a nationally-known author.

Hartline Science Center, completed in 1968, is an air-conditioned facility with classrooms, lecture halls, seminar rooms, laboratories, faculty offices and an exhibit area; it





accommodates the departments of chemistry, physics, biology, and earth and space science. The name of the building honors Daniel S. Hartline, a former teacher of biology, and his son, Dr. H. Keffer Hartline, 1968 Nobel Prize laureate and recipient of an Alumni Distinguished Service Award.

Sutliff Hall, completed in 1960, contains classrooms and faculty offices of the School of Business and laboratories and classrooms for chemistry and physics. William Boyd Sutliff, for whom the building was named, was a teacher of mathematics and the first dean of instruction of the Bloomsburg State Normal School.

Benjamin Franklin Hall, completed in 1930 for use as a campus laboratory school, is now used for college classes, administrative offices, and the Computer Services Center.

Navy Hall was constructed in 1939 as a campus laboratory school but was converted during World War II for the use of candidates enlisted in the Navy V-12 Officer Training Program. It now houses the Division of Human Resources and Services and provides a number of other classrooms and offices.

Science Hall, built in 1906, contains classrooms and faculty offices which are currently used for general purposes. This building is to be demolished within the next several years.

Centennial Gymnasium, completed in 1939, contains a gymnasium which seats 1,200, two auxiliary gymnasiums, a swimming pool, and offices and classrooms for physical education and athletics.



## Residence Halls, Dining Rooms, Student Union

**Columbia Hall**, completed in 1970, is a nine story residence for four hundred women. It contains lounges, study rooms, recreation areas, a special projects room, guest rooms, and apartments for counsellors.

**Elwell Hall**, completed in 1968, is a nine story residence hall which can accommodate 678 men. It contains recreation rooms and lounges, guest rooms, study rooms and apartments for staff. Its name honors Judge William Elwell, a former trustee of the College, George E. Elwell, his son, a graduate and former trustee, and G. Edward Elwell, his grandson, a graduate and former instructor in French.

**Luzerne Hall**, a four story residence hall completed in 1967, accommodates 300 women. It includes lounge and recreation areas, study rooms, and apartments for counsellors.

**Montour Hall and Schuylkill Hall**, four story residences completed in 1964, accommodate five hundred women. Each hall is divided into four wings; each has recreation and lounge areas, study rooms, and apartments for counsellors.

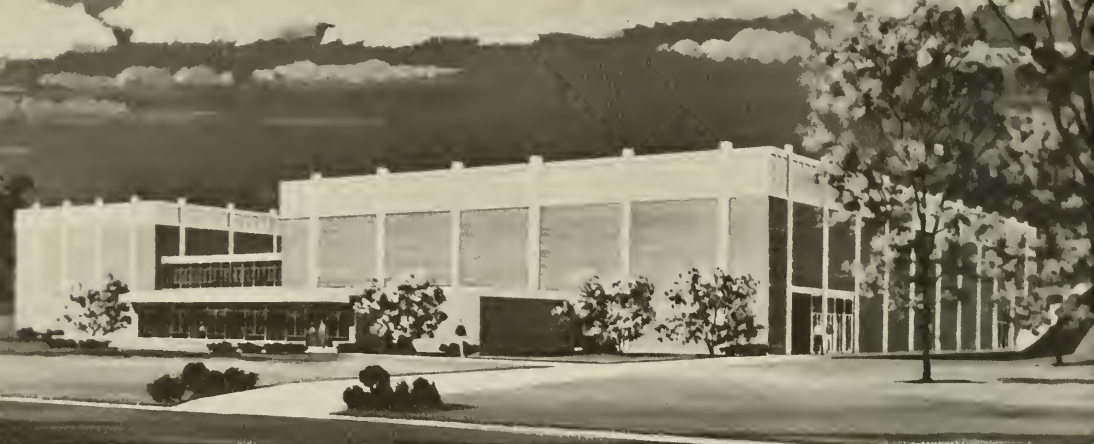
**Northumberland Hall**, completed in 1960, accommodates two hundred men. There are lounge and recreation areas, study rooms, and apartments for counsellors. (Luzerne, Columbia, Montour, Schuylkill, and Northumberland are names of counties from which many students come to Bloomsburg.)

**William W. Scranton Commons**, completed in 1970, is an air-conditioned dining facility with one thousand seats and with capacity to serve two thousand students at each meal. Folding partitions permit flexibility of arrangement. A faculty dining room and two lounges are in the building. It is named for the Governor of Pennsylvania from 1963 to 1967.

**Temporary Student Union**. This building, completed in 1956 and used until 1970 as the College Commons, contains a snack bar, lounges, and recreation areas. When the new student union is completed, this building will again be used as a dining facility.

## Administration and Service Buildings

**Francis B. Haas Center for the Arts**, completed in 1967, contains a two thousand seat auditorium with its stage planned to accommodate dramatic productions as well as general auditorium purposes; the building also contains classrooms, offices and other facilities for music, debating, and drama groups, and lounges and exhibit areas. Dr. Francis B. Haas, for whom the auditorium was named, was President of the College



from 1927 to 1939; prior to and subsequent to this period he served as the Pennsylvania State Superintendent of Public Instruction.

**Andruss Library**, completed in 1966, contains seating for 750 readers, shelving for 200,000 volumes, a projection room, curriculum materials center and an audio-visual materials center. It was named for Dr. Harvey A. Andruss, who served as President of the College from 1939 to 1969 and who during nine years prior to becoming president, established the division of business education and then served as Dean of Instruction.

**Waller Hall**, one of the historic buildings of the campus, consists of wings built at various times in the nineteenth century after a fire destroyed a dormitory in 1875. It now contains administrative offices, faculty offices, the College Store, duplicating rooms, the telephone exchange, and mail facilities for faculty and students. The building was named for Dr. D. J. Waller, Jr., who served for twenty-seven years as Principal of the Normal School.

**Carver Hall**, built in 1867, is the oldest building on the campus. It contains a 900 seat auditorium and offices of the President, the Business Manager and the Vice President for Administrative Services.

**President's House**, originally the home of Charles R. Buckalew, United States Senator from 1863 to 1869 and trustee of the Normal School, was acquired by the Commonwealth for the President's home in 1926.

**Maintenance Building**, completed in 1970, houses offices, storage areas and workshops used by the plant maintenance engineer and his staff.

#### **Buildings in Planning or Under Construction**

**Administration - Supply Building.** This structure will con-

tain administrative offices, a mailroom, vaults for the storage of files and records, conference rooms, a centralized area for the business office, and a large area for receiving, storing, and distributing college supplies and equipment. It is scheduled for completion in 1972.

**Student Center.** The Student Center, to be located within the Living Area, should be completed in 1972. It will house the College Store, a formal lounge, a snack bar and dining area, a multi-purpose room, mailboxes for commuting students, a game room, a television room, a listening room, offices for student organizations and publications, the college infirmary, an information center, and storage area.

**Athletic Fields.** The new football stadium, to be completed in 1972, will have permanent bleachers for approximately 4,000 spectators on one side of the field. The area under the bleachers will provide locker rooms, offices, shower rooms, and storage areas. A baseball diamond and an outdoor track for intercollegiate competition are also part of this project.

**Parking Garage.** A multi-level, concrete structure to accommodate approximately 200 cars is expected to be ready for use late in 1971.

**Recreation Areas.** This project will provide eighteen tennis courts (half of which will be lighted for night activity), a football and soccer field, and a baseball diamond. These facilities are scheduled for completion in 1972; they are designed for use by health and physical education classes and by students and faculty members engaged in informal recreation activities.

**Gymnasium.** A new gymnasium, located on the upper campus, is scheduled for completion in 1971. The largest area will provide a varsity basketball court and folding bleachers for 2,600 spectators; the seating capacity can be expanded to more than 5,000. There will be an indoor track, and a six-lane varsity swimming pool with seating for 500 spectators. Faculty offices, handball courts, classrooms, shower and dressing areas, equipment rooms, and special rooms for physical training and therapy will also be included. The building will be used for health and physical education classes, for varsity athletic contests, and for other activities requiring seating for three to five thousand spectators.

## 1.6 BLOOMSBURG FOUNDATION

The Bloomsburg Foundation was established in 1970 as a non-profit educational corporation designed to assist the College in functions for which state funds should not or cannot be used. The Foundation may solicit, receive and manage gifts

and grants from individuals, corporations, or other foundations; it will use funds to assist the College in carrying out its educational mission. The President of the College is the president and chief executive officer of the Foundation.

### **1.7 COOPERATIVE EDUCATION PROGRAMS**

The Office of Cooperative Education Programs was established in 1970. Its purpose is to coordinate, expand and establish meaningful cooperative relations with educational institutions outside the College. Its functions include: providing forums for the discussion of educational issues; exploring, testing and implementing on a trial basis innovative approaches in education; studying existing curriculum relative to instructional needs; providing in-service institutes and workshops; coordinating other cooperative enterprises.

An Advisory Board consisting of superintendents of participating school districts and the Coordinator of Cooperative Education Programs, the Associate Vice President for Development and External Relations, and the Assistant to the President of the College is the policy-making body. The President of the College, the Academic Vice President, the Dean of the School of Arts and Sciences and the Dean of Professional Studies are ex-officio members of the Board.

Guidelines for participation may be obtained from the Coordinator of Cooperative Education.

### **1.8 CONTINUING EDUCATION**

Through Continuing Education, adults are afforded opportunity to take college courses in regular college classes within the limitations of available space. College-level courses are offered also as evening classes for adults only.

Non-credit short courses, seminars, and workshops will be developed to meet educational needs of industry, business, government and the community-at-large.

Additional information may be obtained from the Director of Continuing Education.

### **1.9 SUMMER SESSIONS**

The Summer Sessions offer courses for undergraduate and graduate students and teachers-in-service. Students may schedule as many semester hours as there are weeks in the session. All Schools of the College participate in the summer program.

Undergraduate courses are open, without filing application, to regularly enrolled students of Bloomsburg State College



who wish to enrich or accelerate their programs or make up academic deficiencies. Others must apply for admission through the Director of Admissions; in the case of a student from another college, admission to a summer session is granted upon the filing of a simplified application form supported by a letter of good standing from the chief academic officer of his college.

Graduate courses are planned for students who wish to continue their education at the Master's degree level and/or to qualify for permanent certification.

A copy of the Summer Session Bulletin may be obtained from the Director of Summer Sessions. Application forms for undergraduate studies may be secured from the Director of Admissions; graduate students may secure application forms and a list of graduate offerings from the Dean of Graduate Studies.

## 1.10 GRADUATE STUDIES

### Degrees

Graduate study was inaugurated in 1960 with programs leading to the Master of Education degree planned for teachers in service. In 1968, approval was granted to offer a program in history to lead to the Master of Arts degree. Additional programs to lead to the Master of Arts and Master of Science degrees are currently in preparation.



The objective of the programs for the degree, Master of Education, is to develop mature, professional teachers. The objective of the Master of Arts programs is to advance the student's scholarship in an academic discipline. The objective of programs leading to the Master of Science degree is to develop mature scholarship and competence related primarily to application.

### Schedule of Classes

Graduate classes taught in the regular academic year are usually scheduled in late afternoons, evenings and Saturdays in order to provide opportunity for teachers and individuals engaged in other full-time occupations to further their education. Graduate courses are offered for full-time students in the summer terms.

### Graduate Catalogue

A graduate catalogue with comprehensive descriptions of courses, programs and regulations is published annually. Requests for copies should be addressed to the Dean of Graduate Studies.



## 2. FEES AND FINANCIAL AIDS

*(Fees are subject to change without notice.)*

### 2.1 COMMUNITY ACTIVITIES FEE

A Community Activities Fee of \$25.00 per semester is charged each full-time undergraduate student. Community Activities fees finance student activities in athletics, lectures, student publications, entertainments, student organizations, etc.

### 2.2 BASIC FEES

#### Semester Fees, Full-time Undergraduate Students.

The basic semester fee for full-time students who are residents of Pennsylvania is set by the Board of Trustees at \$325.

#### Special Fees

Pennsylvania residents who are undergraduate students in the Special Fields pay the following fees in addition to the Basic Semester Fee:

Business Education, \$12.00 per semester

Division of Human Resources and Services, \$10.00 per semester.

#### Fees, Part-time Students, Pennsylvania Residents

Undergraduate students who take fewer than twelve semester hours in a semester pay fees of \$26.00 per semester hour.

#### Fees, Graduate Students, Pennsylvania Residents.

Graduate students who are residents of Pennsylvania pay \$36.00 per semester hour.

#### Fees, Out-of-State Students.

Out-of-State students pay fees of \$43.00 per semester hour; special fees are not assessed. The definition of an Out-of-State student may be obtained from the Business Office.

#### Summer Session Fees.

Undergraduate students who are residents of Pennsylvania

pay fees at the rate of \$26.00 per semester hour, with minimum fee \$78.00. Additional special fees are: Business Education, \$2.00 for a three-week session, \$4.00 for a six-week session; Division of Human Resources and Services, \$5.00 for a three-week session, \$10.00 for a six-week session.

Graduate students who are residents of Pennsylvania pay \$36.00 per semester hour.

Out-of-State students, both undergraduate and graduate, pay \$43.00 per semester hour with a minimum fee of \$129. Special Fees are not assessed to Out-of-State students.

### **2.3 HOUSING FEES**

#### **Residence Halls.**

Room and meals in a campus residence hall cost \$360 per semester, \$120 for a six-weeks summer session, \$60 for a three-week summer session.

The Fall Semester fee is payable before August 15; it may be paid in two installments, \$180 before August 15 and \$180 before November.

#### **Keys.**

A fee of \$1.00 is charged for a room key or locker key. This is refunded when the key is returned.

### **2.4 ADVANCE PAYMENT OF FEES**

An *Advance Registration Fee* of \$25.00 is payable when an individual is approved for admission as an undergraduate student or when a former student is approved for readmission. This fee is credited to the first basic fee payment.

The *Community Activities Fee* for one year (\$50.00) is payable when a student is approved for admission Fall Semester to the College or when a former student is approved for readmission after he had been out of school for one or more semesters.

### **2.5 RULES GOVERNING PAYMENT OF FEES.**

Bank drafts, post-office money orders, or checks must be made out for the exact amount of the fee.

Fees other than the Activities Fee are payable to the Commonwealth of Pennsylvania; money orders should be drawn on the Post Office at Harrisburg.

Activities Fees are payable to Community Activities; money orders must be drawn on the Post Office at Bloomsburg.



Fees are due at times determined by the Business Office.

The College reserves the right to withhold information concerning the record of a student who is in arrears in fees or other charges, including student loans.

The College does not offer a time payment plan. Billing statements of student accounts are mailed prior to registration each semester. Failure to comply with the directive concerning payment excludes the student from registration.

Inquiries concerning fees may be addressed to the Business Manager.

## **2.6 MEALS FOR OFF-CAMPUS RESIDENTS**

Students who live off-campus may take their meals in the dining halls if space is available, at the rate of \$180 per semester.

### **Daily Rate for Transients**

The daily rate for transient meals and lodging is:

Breakfast	\$ .65
Lunch	.85
Dinner	1.25
Room	1.50

*Arrangements for room guests must be approved by the Dean of Women or the Dean of Men.*

## **2.7 MISCELLANEOUS FEES.**

### **Diploma Fees.**

A Diploma Fee is charged at graduation as follows: Baccalaureate degree, \$5.00; Master's degree, \$10.00.

### **Transcript Fee.**

A fee of \$1.00 is charged for the second and each subsequent transcript of a student's record.

### **Late Registration Fee.**

A late registration fee of \$10.00 is charged a student who completes registration after the official registration date.

### **Schedule Change Fee.**

A fee is charged a student who at his own initiative

changes his class schedule after it has been accepted by the scheduling officer. The 1971-72 fee will be stated in the Pilot.

#### **Application Fee.**

An Application Fee of \$10.00 must be paid by each applicant, undergraduate and graduate, at the time of request for registration.

### **2.8 REFUND POLICIES**

#### **Application Fee.**

*The Application Fee (\$10) is not refundable.*

#### **Advance Registration Fee.**

*The Advance Registration Fee (\$25) is not refundable.*

#### **Community Activities Fee.**

Freshmen or other new incoming students may apply for a full refund if written application is made to the Comptroller of Community Activities prior to September 1 and if one of the following circumstances obtains: withdrawal by the College of the offer of admission; induction into the Armed Forces; illness certified by a physician as preventing enrollment. A partial refund (\$25) is granted if written application is made prior to September 1 and if reasons other than those specified above determine the student's decision not to enroll.

A student who has completed at least one semester at the College and who after making advance payment of his Community Activities Fee for a year decides not to return is entitled to a full refund if his written request is received by the Comptroller of Community Activities by September 1; he is entitled to a refund of \$25 for the second semester if the written request is received by February 1.

A student who has been suspended, or who has been dismissed for academic reasons will not be given a refund for the semester involved.

If a student voluntarily withdraws during the first half of the first semester he may receive a refund of half of the first semester fee and the entire second semester fee, a total of \$37.50. If he withdraws during the first half of the second semester, he may receive a refund of \$12.50, or half of the second semester fee. In either case, written application for refund must be received by the Comptroller before the end of the semester during which he withdraws.

## **Other Fee Refunds.**

Refund policies for fees not specifically covered in the preceding statements are as follows:

*No refunds are made to students who are suspended, dismissed, or who withdraw from the College voluntarily.*

In case of personal illness certified to by an attending physician, or in case of other reasons which may be approved by the Board of Trustees, refunds of housing and contingent fees are prorated and the unused portion subject to refund.

## **Notice of Withdrawal.**

In case of withdrawal, any refunds which are due are computed from the date when notice of official withdrawal is received at the Business Office from the Vice-President for Academic Affairs.

## **2.9 BOOKS AND SUPPLIES**

Books and supplies are estimated at \$75 for each semester. Students may secure books and supplies at the College Store. This store is operated on a cash basis.

## **2.10 STUDENT FINANCIAL AID**

Financial aids available include loans, part-time employment, scholarships and grants. Federal and Commonwealth programs fund most of the opportunities.

Federal programs include the College Work-Study Program, the National Defense Student Loan Program, and the Educational Opportunity Grant Program.

Commonwealth programs include the Pennsylvania State Student Employment Program, the State Guaranty Loan Program (with Federal subsidy on interest payment for certain income levels), and the Pennsylvania State Scholarship Program.

The State Guaranty Loan Program and the State Scholarship Program are administered by the Pennsylvania Higher Education Assistance Agency (PHEAA). Information may be obtained from guidance counsellors in high schools or from PHEAA regional representatives.

Limited financial assistance is available through the Bloomsburg State College Alumni Association Loan Program and the Bloomsburg State College Scholarships.

Students who wish to take advantage of financial assistance must file a Parent's Confidential Statement with the College through the College Scholarship Service, Box 176,

Princeton, New Jersey 08540. High school counsellors can help students find information concerning this statement.

Further information concerning financial aid opportunities may be obtained from the Director of Financial Aid at Bloomsburg State College.





## 3. STUDENT LIFE AND SERVICES

### 3.1 INTRODUCTION

It is desirable for each student to become involved in extracurricular organizations and residence hall programs; these provide opportunities to learn and grow as a human being within an atmosphere of a living-learning center. Residence hall programming is intended as a framework for emotional, social, academic, and personal development; the programs involve dining service, social gatherings, cultural events, discussion groups, athletics, judicial proceedings, and a variety of student organizations.

The commuting student is urged to work out a travel schedule which permits him to spend as much time as possible on campus and to participate in the groups of his choice.

The educational value of these services depends upon the effort and involvement of each student, whether resident or commuter.

### 3.2 COLLEGE POLICY

Individual rights and freedoms will be respected within the context of the educational mission. No community, however, can survive when extreme pressure for undirected change or unyielding resistance to necessary change produce an irreconcilable paralysis. Disruption is easy, but unnecessary disruption fosters an atmosphere of uneasiness, dissatisfaction, and stagnation. Mutual respect for both reason and reasonableness leads to constructive action.

*Students are responsible for the rules, policies, and regulations as stated in the Catalogue, Pilot (Student book), and the Residence Hall Manuals.*

### 3.3 STUDENT HOUSING

#### General rules

The College reserves the right to assign rooms and roommates in residence halls; personal preferences are considered when possible.

Housing and food services are provided only on a combined basis for students living in residence halls. Housing and food service contracts may not be transferred or assigned.

Freshman resident students are assigned on-campus housing whenever possible.

During summer sessions, all students must reside in college residence halls unless they are living with their parents or are eligible for independent housing.

### Residence Halls

The Residence Halls are described in Section 1.5, Buildings.

Freshman, Sophomore, and Junior women with less than 90 semester hours of credit are required to live in residence halls unless they qualify for sorority or independent housing, or extenuating circumstances exist. Senior women must live off-campus unless employed as Resident Advisers or receptionists in the residence halls.

Freshman men are required to live on campus; they are given the opportunity to apply for rooms when they become Sophomores; a waiting list is maintained by the Director of Housing. Senior men are required to live off-campus unless employed by the Office of Student Affairs.

Details of rules and regulations are printed in the Pilot and in the residence hall Manuals.

### Approved Off-Campus Housing

Approved housing is subject to the standards of the College and the safety requirements of the state Department of Labor and Industry. The Housing List is available in the Office of the Director of Housing.

Women: Sorority houses are on the list of approved housing; they are under the supervision of the Office of Student Affairs.

Men: Sophomores and Juniors who do not qualify for independent housing must find their housing from the Approved List or live in the residence halls. Copies of housing contracts must be filed in triplicate with the Director of Housing *prior* to registration.

Because of the shortage of available space, apartments are limited to Seniors and married students.

Fraternities are classified as Approved Housing during the semesters of the regular year; they are subject to supervision by the Office of Student Affairs.

### Independent Housing

To be eligible for independent housing in any semester, an unmarried student must be 21 years of age on the date of registration for the semester, or must have finished six semesters

of 90 semester hours credit. Eligible students may seek housing of their own choice after declaring their intentions to the Director of Housing by March 15 preceding the college year.

Students residing off-campus in independent housing are regarded as both citizens of the town and members of the college community. The College cannot provide sanctuary from the law nor can it be indifferent to its reputation in the community. The College does not and cannot supervise the health, safety, living standards, and contractual arrangements of students living in independent housing.

Students who do not have commuter status or eligibility to live off-campus must live in residence halls if rooms are available. They may not move from residence halls during a semester.

### 3.4 COMMUNITY GOVERNMENT ASSOCIATION

All students carrying 12 or more semester hours and all faculty, who care to join, are considered voting members of the Community Government Association (CGA).

The College Council, which meets the second and fourth Monday of each month, acts as the executive board of CGA. The membership of College Council and the constitution of CGA are printed in the Pilot, the Student handbook.

### 3.5 STUDENT ORGANIZATIONS AND ACTIVITIES

Students are encouraged to take part in one extra-curricular activity one semester each year. The approved clubs and activities in 1970-71 are:

Amateur Radio Club	LeCercle Francais
American Chemical Society	Literary and Film Society
Archaeology Club	Maroon and Gold Band
B Club	Mathematics Club
Black History Club	Men's Glee Club
Biology Club	Philosophy Club
Bridge Club	Psychology Club
Chess Club	Rifle Club
Concert Chior	Russian Club
Council for Exceptional Children	Society of Science Students
Dramatic Club (Bloomsburg Players)	Sociology Club
Economics Club	Spanish Club
Fellowship of Christian Athletics	Student PSEA
Flying Club	Student Union Program Board
Forensic Society	Studio Band
German Club	Veterans Club

Huski Club  
Ideas Unlimited  
Inter-varsity Christian Fellowship

Women's Choral Ensemble  
Women's Recreational Association  
Young Democrats  
Young Republicans

Additional information may be obtained from the Office of the Director of Student Activities located in the Student Union.

## Publications

### MAROON AND GOLD

The college paper, published twice weekly, is regarded as the official student voice on campus. It is funded by the CGA budget and distributed free to the college community.

### OBITER

This is the college annual pictorial publication of the activities of the past year.

### OLYMPIAN

This annual publication provides an outlet for literary expression in the fields of poetry and prose.

### PILOT

The official student handbook is edited by a student under the supervision of the Associate Vice President for Student Affairs. It contains essential information about student life and services, the Constitution of CGA, the Joint Statement of Students Rights, Privileges, and Responsibilities, and the Judicial System.

### TODAY

A daily publication from the Office of the Director of Student Activities announces activities and meetings, and carries news of organizations and departments.

## Honor and Professional Fraternities

National honor and professional fraternities foster educational ideals through scholarship, social activities, and moral development. Campus chapters with dates of organization are:

Alpha Phi Gamma (Journalism)  
Alpha Psi Omega (Coeducational Honorary Dramatic Fraternity) 1928  
Gamma Theta Upsilon (Coeducational Geography Fraternity) 1931  
Delta Phi Alpha (Coeducational Honor Society in German) 1967



Kappa Delta Pi (Coeducational Honor Society in Education) 1931  
 Phi Sigma Pi (Professional Education Fraternity for Men) 1930  
 Phi Beta Lambda (Coeducational Business Fraternity) 1967  
 Pi Kappa Delta (Coeducational Debate Fraternity) 1963  
 Pi Omega Pi (National Business Teacher Education Honor Society) 1935  
 Psi Chi (National Honor Society for Psychology) 1970  
 Sigma Alpha Eta (Honor Speech and Hearing Fraternity) 1965  
 Sigma Tau Delta (Coeducational English Fraternity) 1965

### Social Fraternities and Sororities

The Inter-Fraternity Council (IFC) serves as the governing body of the seven social fraternities, and co-ordinates rushing, pledging, and programming. The membership at this date, with dates of organization, comprises:

Sigma Iota Omega	1965	
Delta Omega Chi	1965	
Zeta Psi	1966	national November 1969
Phi Sigma Epsilon	1966	national April 1970
Sigma Pi		national May 1970
Lambda Chi Alpha	1967	national September 1970
Phi Sigma Kappa	1966	national September 1970

The Inter-Sorority Council (ISC) is composed of representatives of the five social sororities. The Council coordinates the rushing and pledging activities and endeavors to enhance friendship and social relations between sororities and individual women. The group consists of:

Delta Epsilon Beta	October 1966
Theta Gamma Phi	March 1967
Tau Sigma Pi	September 1967
Chi Sigma Rho	October 1967
Theta Tau Omega	September 1968

### Service Fraternities and Sororities

These organizations are dedicated to providing service to the campus, community, and the world. Alpha Phi Omega (1963) is open to all college men regularly enrolled in the institution. Lambda Alpha Mu (1964) is open to all Sophomore and Junior women having at least a 2.0 cumulative quality point average.

### Student Union

The Student Union is located in the former College Commons pending the completion of a new Student Union Building.

The Union contains the office of the Director of Student Activities and the Student Union Program Board, a combination television and reading lounge, an information desk, a recreational area for billiard tables, an area for playing cards and games, and a snack bar. Many social events are conducted in this facility.

### 3.6 SERVICES

#### Dining Room

Four dining rooms are located in William Scranton Commons. The food services are catered by a commercial organization.

The meal tickets are purchased through the Business Office each semester; in order that the price may remain at a minimum, meal tickets are not transferable.

Students who live off-campus are permitted to purchase meal tickets within the limits of the capacity of the dining hall and service lines. Currently, all student requests are honored.

Faculty and visitors may eat in the dining room at the transient rate, currently, breakfast 60¢, lunch 85¢, dinner \$1.25.

#### College Infirmary

Nurses are on duty in the Infirmary in Waller Hall from 7:30 a.m. to 11:30 p.m. Monday through Friday; from 8:00 to 1:00 p.m. Saturday and from 12:00 noon to 5:00 p.m. on Sunday. There is student coverage at other hours Saturday and Sunday to provide help from 8:00 a.m. to 10:00 p.m.

When a doctor's services are required, the patient can be transported to the local hospital by the Security Officer on duty. The college physician and the hospital are contracted to care for students on a 24-hour basis seven days a week.

The College offers to students a voluntary insurance policy which covers most expenses incurred at the hospital or in consultation with the doctor up to \$1,000.00. This policy is in force 24 hours a day and begins with the first visit.

#### Financial Aid

The Director of Financial Aid is under the supervision of the Associate Vice President for Student Affairs. The functions of the office are described in the chapter on Fees and in the *Pilot*.

## **Counseling**

The Counseling Center makes available the services of three professionally trained counselors. Services of the center are available to any regularly enrolled student with problems in the areas of educational, vocational, personal, social, or emotional concern.

Students should ask for help without hesitation when a problem adversely affects their education. Counseling interviews are held rigorously confidential.

## **Banking**

The Community Activities Office, located near the College Store, is prepared to accept deposits of cash for students and to provide for withdrawals at convenient times. Personal checks up to \$50.00 may be cashed at the bank.

## **College Store**

The College Store sells books and supplies needed during the year; it is open from 8:30 a.m. to 5:00 p.m. Monday through Friday and from 8:30 a.m. until noon on Saturday.

## **Post Office**

The College maintains a post office in each residence hall, and one in Waller Hall for commuters and faculty. A combination or key lock box is assigned to each student.

## **Artists and Lectures Series**

Each semester the Community Government Association sponsors programs of cultural import by professional artists and groups. A series of lectures feature outstanding speakers from the national and international scene. Students are admitted to these events without charge upon presentation of the I.D. card.

The Bloomsburg Civic Music Association presentations are open to the student body and faculty.

## **Art Gallery**

Works of art are exhibited throughout the year in the Haas Gallery under the direction of the Department of Art. Exhibitions of student work are held annually in the Fall and Spring.

## **Center for Learning and Communication Disorders**

This Center, located in Navy Hall, provides a number of

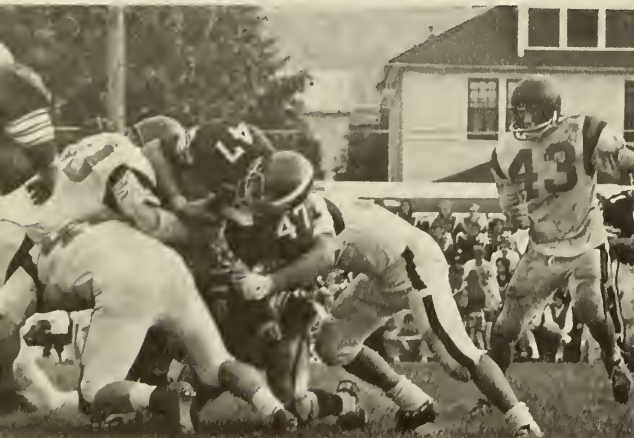
services to students, faculty, staff and the total community. Evaluative services available are: speech, voice, language, hearing, hearing aid evaluation, and educational-psychological services. Therapeutic services offered are speech and language therapy, auditory training, speech reading, educational therapy, and parent counseling. Services of the Center are free to Bloomsburg State College students, faculty, and staff.

### Placement Office

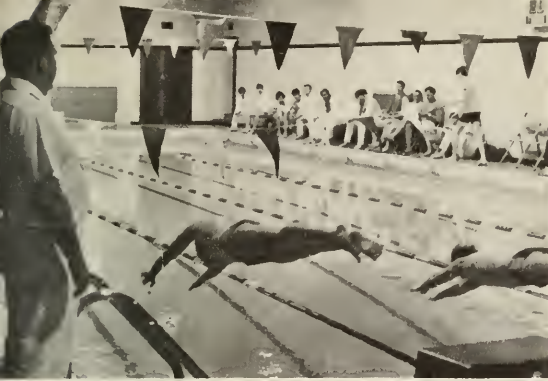
The function of the Placement Office is to assist graduating seniors and alumni in securing jobs or continuing their education. It operates through keeping accurate student records, providing vocational counseling when needed, collecting, organizing, and distributing materials from school districts and various companies, listing job vacancies, and operating as a liason between school administrators and company personnel officers in finding competent graduates to fill their positions as well as the graduates' placement needs.

The Placement Office maintains confidential files of students; these consist of personal and faculty recommendations, personal data, and, for students in the education curricula, student teaching records. Credentials are provided to employers without charge.

Alumni are urged to regard the placement service as a permanent part of their contact with the college. Placement services are available through credentials, interviews, and vacancy lists. Communications relating to the placement office should be addressed to the Director of Placement.







### 3.7 ATHLETICS

The College is a member of the National Association of Intercollegiate Athletics, National Collegiate Athletic Association, The Pennsylvania State College Conference, and Eastern College Athletic Conference.

The intercollegiate program includes baseball, basketball, football, golf, swimming, tennis, track, wrestling, cross-country, and field hockey (women).

Intramural sports for men include: bowling, archery, baseball, football, swimming, tennis, track, chess, cross-country, horseshoes, shuffleboard, soccer, water polo, weight training, softball, basketball, table tennis, volleyball, and wrestling.

Women students find intramural hiking, tennis, skating, swimming, basketball, softball, volleyball, and archery.

### 3.8 AUTOMOBILE REGISTRATION

It is required that all motor vehicles brought to the town of Bloomsburg be registered annually by the Security Office. Commuters, Seniors, Juniors with six semesters of 90 hours credit, veterans eligible for the G.I. Bill, students over 21 years of age, graduate students, Evening Division students, and all faculty and staff are eligible to bring motor vehicles. During

Summer Sessions, all students except trial Freshmen are eligible.

Students who do not meet eligibility requirements may neither register nor possess a motor vehicle on the campus, nor in the town of Bloomsburg.

PHEAA restricts a student recipient of a grant from possessing an automobile while attending school, unless that student is a commuter or has been granted permission by the PHEAA office. A student found guilty of violating this regulation will be required to refund the grant.



## **4. ADMISSION AND READMISSION**

### **4.1 INSTRUCTIONS FOR CORRESPONDENCE**

Correspondence concerning admission, and documents which pertain to admission, should be addressed to:

Director of Admissions  
Bloomsburg State College  
Bloomsburg, Pa. 17815

### **4.2 CRITERIA FOR EVALUATION**

Admission to Bloomsburg State College is determined by the applicant's academic and personal qualifications. Decisions are reached without regard to race, color, creed, or national origin.

Applicants must be graduates of or seniors in accredited secondary schools or must have secondary school equivalency as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education.

Acceptance is determined by the Director of Admissions upon evaluation of secondary school preparation, achievement, rank in class, scores on the Scholastic Aptitude Test, personal characteristics, and institutional capacity.

Acceptances are tentative if based on evaluation of transcripts which show work in progress; final action is taken after complete transcripts have been received and evaluated.

If the previous cumulative Quality Point Average of a readmitted student is less than 2.0, his grades recorded prior to readmission will not enter into subsequent computations of Quality Point Averages, but his previous record will be included in computations of cumulative credit and semesters attended. A student may invoke this provision only once.

### **4.3 APPLICATION PROCEDURES**

Application materials and instructions for submitting application may be secured by writing the Director of Admissions.

To be a candidate for admission, one must complete and submit an official application to the Office of Admissions. A secondary school transcript and personal evaluation report must be sent to the Director of Admissions by the proper official of the secondary school at the request of the applicant.





The non-refundable application fee of ten dollars must be paid prior to consideration of the application.

#### **4.4 ENTRANCE TEST**

Applicants must have on file scores of the Scholastic Aptitude Test of the College Entrance Examination Board. It is the responsibility of applicants to arrange for the test and to request the forwarding of the scores directly from the Educational Testing Service; no other test scores will be substituted.

#### **4.5 TRANSFER STUDENTS**

An applicant who has ever been enrolled in another college or university or who at the time of application is enrolled in a transfer student regardless of whether or not he earned credit.

The information supplied in section 4.2, Criteria for Evaluation, 4.3, Application Procedures, and 4.4, Entrance Test, also applies to transfer applicants. Transfer students must also request each college attended to send an official transcript and a clearance form to the Director of Admissions.

In order for a transfer student to be considered for admission, he must be certified as in good standing academically and otherwise in the college last attended and must have a quality point average in that college of 2.0 or better on a 4.0 system.



#### 4.6 READMISSION OF FORMER STUDENTS

Students who were formally admitted to degree study and who have attended Bloomsburg State College and have withdrawn for any academic semester, regardless of the reason, must apply for readmission if they wish to re-enter.

Applicants for readmission who are attending or have attended other colleges during their separation must conform to the requirement of transfer students.

Readmitted students are responsible for the graduation requirements and academic policies which exist at the time of re-entrance.

The Director of Admissions may require an applicant for readmission to file a letter containing such supplementary information as is needed for proper consideration.

Students under academic dismissal are ineligible for consideration for readmission for one calendar year; they should present evidence of successful achievement at another college or university as part of any application for readmission.





#### **4.7 HEALTH RECORD**

Students who are offered admission must submit a medical examination report from their physician prior to enrollment. The appropriate medical examination report form will be forwarded to the applicant at the time of acceptance.

Final permission to enroll is contingent upon a favorable review of the medical report by the College Physician.

#### **4.8 CAMPUS VISITS**

A personal interview is not required for admissions consideration; if it is deemed desirable, however, an appointment will be made for the applicant by the Director of Admissions.

A number of campus visitation days are held during the academic year. Visitation days consist of a general meeting with Admissions personnel, students, and Administrative personnel—including a question-answer session—and a tour of the campus. Specific information and dates are available upon request from the Director of Admissions.

#### **4.9 ADVANCED PLACEMENT TESTS**

Bloomsburg State College cooperates with the College Entrance Examination Board in awarding college credit to the high school student who successfully completes Advanced Placement Examinations. Results of the Advanced Placement Examinations should be submitted to the Director of Admissions for evaluation.

#### **4.10 ADVANCED STANDING FOR MILITARY SERVICE EDUCATIONAL EXPERIENCES**

The recommendations of the American Council on Education as stated in its Guide to Evaluation are followed. The applicability of such credit to the requirements of the student's curriculum is determined by recommendation of the dean of the school and confirmation by the Vice President for Academic Affairs. USAFI courses validated through college-level examinations are subject to the provisions for accepting of correspondence courses.

#### **4.11 INTERNATIONAL STUDENTS**

Residents of foreign countries should initiate their application well in advance of the semester they plan to enroll. Special application forms are required and may be obtained by writing to the Director of Admissions. Students whose native language is other than English are required to submit the results of the Test of English as a Foreign Language (TOEFL) Examination administered by the Educational Testing Service, Princeton, New Jersey 08540. Certificates of educational training should be accompanied by certified translations if they are presented in a language other than English. Brief course descriptions of subjects successfully completed should be included with credentials.





## 5. ACADEMIC POLICIES AND PRACTICES

*Academic policies and practices are subject to change; the policies of this chapter are those authorized as of February 15, 1971. If there are subsequent changes which are effective for 1971-72, insofar as possible these will be announced in the Pilot; changes made after publication of the Pilot are announced in the Maroon and Gold.*

### 5.1 REGISTRATION POLICIES AND PRACTICES

#### Student Responsibility

It is the responsibility of the student to know and observe the academic policies and regulations of the College, to confine his registration to courses for which he has satisfied the prerequisites, and to meet the requirements for his graduation.

In case of changes by the College in graduation or curriculum requirements, a student who attends as a full-time student without interruption may choose to satisfy either the requirements as they existed at the time of his entrance or the new requirements; if he elects to satisfy the new requirements he is responsible for them *in toto*. A student who withdraws



from the College for one or more semesters must apply for readmission and be governed in this matter by the rules for readmission. A part-time student must apply to the Vice President for Academic Affairs for permission to be graduated under his original requirements.

### **Pre-scheduling and Registration**

Prior to the beginning of each semester, the student, after consultation with his adviser, submits a list of courses for the semester. When this list has been approved by the appropriate officer, a schedule of classes is prepared in the Computer Services Center; this becomes the basis for his registration.

The curriculum outlines in this catalogue list requirements without indication of an order in which courses should be taken. Some departments translate the lists into sequences which are made available to students through their advisers; these can serve as guides in the preparation of semester schedules. When such sequences are not made available, the student is responsible for planning each semester's courses for most effective learning experience. This responsibility should not be taken lightly; the student should seek assistance of his adviser in making decisions concerning sequence as well as decisions involving the identity of elective courses.

Specific instructions are issued for each pre-scheduling and registration period; failure to follow announced procedures may result in forfeiture of privileges pertaining to registration.

A student is granted credit for a course only if he has attended the class listed on his official class schedule.

### **Change of Schedule**

A student may change his semester schedule prior to the close of the second Friday following the first day of classes upon approval by the dean of the school and the confirmation of the Vice-President for Academic Affairs. A fee is charged for a change of schedule; the amount of the fee for 1971-72 will be set after a study of the cost of processing changes.

### **Transfer of Curriculum**

A student may transfer from one curriculum to another curriculum within the same School by obtaining permission of the Dean of that School. Permission may depend upon such factors as available space in the curriculum to which transfer is requested and recommendations from advisers and counsellors.

A student who wishes to transfer from his present curriculum to a curriculum in another school must apply for transfer by using an application form which he obtains from the Registrar and which he returns to the Registrar after obtaining the signatures indicated thereon. The filing of this application must be completed before the end of the semester preceding the proposed transfer, preferably before the pre-scheduling period. Each signature implies approval in the light of the factors for which that officer is responsible. Ordinarily, academic Good Standing is prerequisite to transfer; students with lower averages may apply for transfer only with permission of the Vice-President for Academic Affairs.

### Withdrawal from a Course

A student is permitted to withdraw from a course at any time prior to the last week of classes for the semester; the grade is determined by the following policy: If withdrawal is initiated by the student prior to the close of the day established as the





end of the first half of the semester, the grade of "W" is reported; if withdrawal is initiated later, a grade of "W" is reported only if the student is currently passing while the grade of "E" is required if the student is failing the course. The faculty member concerned determines this grade.

A withdrawal application card may be obtained from the Registrar's office; the student has initiated his withdrawal when he has complied with instructions which accompany the card and has filed the card with the Registrar. His grade is determined as of the date when he initiated withdrawal, except that in case of prolonged absence, reliably confirmed as due to causes beyond the student's control, the Vice-President for Academic Affairs will request the instructor to make the grade retroactive to the first day of absence due to this cause.

### **Withdrawal from the College**

A student may withdraw from the College by securing the Official Withdrawal Form from the Counseling Center and completing and filing it as directed. Grades are given in accordance with policies stated above under "Withdrawal from a Course." An individual who discontinues attendance without completing official withdrawal and clearing of all obligations to the College waives the right to a transcript and is denied future readmission.

Policies which govern reimbursements are stated in the chapter on Fees.

### **Pass-Fail Registration and Rules**

After his first year in college, a student may elect courses on a pass-fail basis in accordance with the following rules:

A maximum of four courses (not more than 13 semester hours in total) may be included as part of the minimum graduation requirement of 128 semester hours.

The courses must be electives in disciplines of the arts and sciences other than the major area.

No more than two courses may be taken on this plan in any semester or summer term.

The instructor is not informed that the course is being taken on a pass-fail basis; his grades of A, B, C, D, or E are translated later into grades of P or F, with the grade of P recorded for a grade of D or higher and the grade F recorded for E.

The grades P and F do not enter into the computation of a quality point average.



If, subsequent to his registration for a course on a pass-fail basis, the student should change his major to one in which the instructor's original grade is required, the record is revised accordingly.

The student may not revoke a decision to take a course on a pass-fail basis.

### **Normal Load and Overload**

The normal load of a student in any semester is 16 semester hours. A student in Good Standing may register for a maximum of 18 semester hours in a semester. An overload to a maximum of 19 semester hours requires a Cumulative Quality Point Average of 3.0 and permission of the Vice President for Academic Affairs.

### **Repeating Courses**

A student may repeat up to four courses in which he has grades of E. He may not repeat a course in which he has previously earned a passing grade.

A student who has received a grade of E in a course may not take it later on a Pass-Fail basis.

### **Auditing of Courses**

A full-time student who is enrolled for less than seventeen semester hours of course work may, with consent of the Vice-President for Academic Affairs, register for one course as an auditor. If he attends at least three-fourths of the regular class meetings the grade "V" will be reported by the instructor and the course will be entered on his academic record without credit. No assignments are made to an auditor and no papers or examinations are accepted by the instructor for grading or record either during the period of enrollment or subsequent thereto.

A part-time student may register as an auditor, subject to the provision that when computing the fee paid by the student the course audited will be counted the same as if it were taken for credit.

### **Class Standing**

A student has academic standing as a freshman until he has 32 semester hours of credit; as a sophomore from 32 to 63 semester hours, a junior from 64 to 95 semester hours, and a senior if he has 96 or more semester hours of credit. Transfer

credit, if any, is included in these figures.

*For purposes of social and housing privileges and regulations, the definitions of class standing are as follows: freshman, to and including 29 semester hours; sophomore, 30 to 59 semester hours; junior, 60 to 89 semester hours; senior, 90 or more semester hours or 6 semesters as a full time student.*

### **Definition of Full-Time Student.**

An individual who registers for twelve or more semester hours is classified as a full-time student. One who registers for less than twelve semester hours is a part-time student. Where the word "student" appears in this catalogue without modification either by word or context, "full-time student" is implied. A full-time student retains this classification if he drops courses to the point where he is carrying less than a twelve semester hour load.

### **Progress Reports.**

At the mid-point of each semester, instructors may file a deficiency report for any student whose work to date is unsatisfactory.

At the end of a semester of summer term, the final grade for each course is recorded on the student's permanent record; a copy of the semester grades is sent to the student at his home address.

## **5.2 CLASS ATTENDANCE**

A student who is absent from a class for a reason which can be verified as urgent is entitled to a reasonable amount of assistance from the instructor in making up the work which was missed. This includes permission to make up an examination given the class during his absence and the late submitting of assignments that were due during the period of absence. Urgent reasons are defined as illness of the student, serious illness or death of a member of the student's family, and other events beyond the control of the student and of such nature as to prevent attendance. Students whose absences do not fall within this category may not claim the privilege of making up work. It is the responsibility of the student to provide adequate verification of the reason for absence when applying for the privilege of making up work missed.

### 5.3 GRADES, QUALITY POINTS AND QUALITY POINT AVERAGES

#### Definition of Grades.

The grades given at Bloomsburg State College are defined as follows:

C — Satisfactory. The work meets the instructor's concept of satisfactory performance and/or is equivalent in quality to that of the "average" or "typical" students.

A — Excellent or Distinguished or Superior. This is interpreted both as excellent when judged by the instructor's standards and superior when compared with the performance of the students graded "C".

B — Good. This is a measure which indicates work intermediate between that properly rated "C" and that rated "A".

D — Minimum Passing Grade. The student has met the instructor's minimum standards, but the quality of the work is lower than that graded "C".

E — Failure; No Credit. The student has not met the minimum standards. If the course is prerequisite to another course the student should not continue in the sequence.

W — Withdrawn from the course while passing. This grade is discussed more fully in the paragraph on Withdrawal.

I — Incomplete. This grade is given when because of circumstances beyond his control the student has been unable to complete certain of the obligations of the course and when a plan exists and is understood by both instructor and student whereby the work which remained to be done may be completed and graded. When the work has been completed, a permanent grade is submitted to replace the grade of "I".

P — Passed. This grade is recorded when a student takes a course on a Pass-Fail basis and does work which would ordinarily lead to a passing grade.

F — Fail. This grade is recorded when a student has taken a course on a Pass-Fail basis and does work which would ordinarily lead to a grade of "E".

V — Audit. This grade is recorded when a student has registered as an auditor and attends the class for three-fourths or more of its regular meetings. The entire set of rules governing auditing of courses appears in Section 5.1.

R — Research in Progress. This grade is recorded when a graduate research project is in progress but not yet completed.

## Quality Points

Grades of A, B, C, D, and E have quality point values as follows:

Grade	Quality Points
A	4
B	3
C	2
D	1
E	0

## Quality Point Average

A number called the Quality Point Average (abbreviated QPA) is computed from the record of courses taken at Bloomsburg State College with grades of A, B, C, D, and E. The computation process is as follows:

- (1) Multiply the number of semester hours for each course by the number of quality points for the grade in the course, and add the products.
- (2) Divide the sum obtained in the first step by the total number of semester hours represented by the courses.

The "Semester QPA" is computed by including only the courses of a single semester. The "Cumulative QPA" is that computed by including all courses taken to date at Bloomsburg State College; if a course has been repeated, both grades enter into the computation.

## Change of Grade

After a grade has been reported to the Registrar's office it may be changed only to correct a computational or clerical error; a recommendation for change of grade must be made in writing by the instructor and approved by the department chairman and the Vice President for Academic Affairs.

## 5.4 HONORS

The name of a student whose Semester QPA is 3.5 or higher is included in the Dean's List for that semester.

Graduation honors are recognized as follows: A student whose Cumulative Quality Point Average is 3.50 to 3.59 is graduated *cum laude*; 3.60 to 3.74, *magna cum laude*; 3.75 to 4.00 *summa cum laude*.



## 5.5 ACADEMIC GOOD STANDING

A student whose record at the end of any semester or summer term meets the standard described in this table is in Academic Good Standing.

TOTAL NUMBER OF SEMESTER HOURS IN COURSES PASSED, INCLUDING GRADES OF P AND TRANSFER CREDIT	CUMULATIVE QUALITY POINT AVERAGE REQUIRED FOR GOOD STANDING
to and including 18 sem. hrs.	1.25 or higher
19 - 30 sem. hrs.	1.50 or higher
31 - 54 sem. hrs.	1.75 or higher
55 - - -	2.00 or higher

## 5.6 RETENTION POLICIES

### Academic Probation

A student in one of the following three categories may be permitted to attend on Academic Probation for the next semester (one semester only);

- (a) an entering freshman whose Quality Point Average at the end of his first final grading period is at least 1.00 but less than 1.25;
- (b) a transfer student whose Quality Point Average at the end of his first final grading period is less than, but within 0.1 of, that required for Good Standing;
- (c) a full-time student who has been in Good Standing continuously for at least two consecutive final grading periods immediately prior to a grading period in which his Cumulative Quality Point Average drops below, but within 0.1 of, that required for Good Standing.

The record of a student in any of these categories is marked "Academic Probation."

There are three final grading periods in each calendar year: at the close of the last summer term and at the end of each semester.

### Academic Dismissal

A student who at the end of any semester or summer term is neither in Good Standing nor qualified to attend for a semester on academic probation is excluded from registration and his record is marked "Academic Dismissal."

A student under academic dismissal is ineligible to attend any courses offered by the College for a period of at least one calendar year. Readmission regulations are stated in Chapter 4.

## Appeals

A student under academic dismissal may petition the Academic Review Board for reinstatement. If reinstatement is granted, the conditions pertaining thereto are stated, and the student's record is marked "*Reinstated*." If the student does not attain Good Standing by the end of the period granted by the conditions of reinstatement he is excluded from registration and his record is again marked "Academic Dismissal."

Petitions to the Academic Review Board *must be in writing* and must be filed with the Vice President for Academic Affairs within 48 hours of receipt of notification.

This board consists of the Deans of the Schools of Arts and Sciences, Professional Studies, and Business; a representative of the Associate Vice President for Student Affairs; the Director of the Counseling Center; the Director of Admissions; the Director of the Summer Sessions and Continuing Education; the Registrar of the College; and the Chairman of the department in which the student is enrolled.

In its evaluation of a petition for reinstatement, the Academic Review Board is charged to consider: the degree to which external factors beyond the student's control temporarily prevented optimum academic achievement; the likelihood that these or similar factors would not recur if reinstatement were granted; the likelihood that the student, if reinstated, can complete his curriculum successfully within a reasonable extension of the normal four year period; an evaluation of the plan for attaining Good Standing proposed by the student as a part of his petition; and such other factors as may seem pertinent. Reinstatement is an expression of confidence on the part of the Board in the student's potential for successful completion of his curriculum and his fulfillment of its purposes.

A student whose petition for reinstatement has been denied by the Academic Review Board may appeal the decision within 48 hours to a special panel consisting of the four vice-presidents of the College, provided the dean of the school in which the student has been enrolled supports the appeal by certifying that in his judgment it presents evidence concerning pertinent factors that either were not placed before the Board or were given insufficient attention. The appellant must petition in writing through the Vice President for Academic Affairs; he may also be required to appear before the panel in person. All

members of the panel must concur in any decision to reverse the Academic Review Board. *The decision of the panel is final.*

## 5.7 EVALUATION OF TRANSFER CREDITS

Evaluation of credit earned in other institutions is made by the dean of the school in which the student has chosen his curriculum, subject to confirmation by the Vice-President for Academic Affairs.

Initial evaluations are tentative; they are subject to revision in the light of the student's first semester experience.

Acceptable courses must have been completed in an accredited college or university or in a recognized or accredited junior college or community college. Courses must be applicable to the student's curriculum either as substitutes for required courses or as electives; credit may be deleted if the student subsequently registers for courses which substantially duplicate the content of courses accepted for transfer.

A student is entitled to an opportunity to validate by examination a course presented for transfer when the substitution of transfer credit for a required course is in question because the course was taken in an unaccredited institution or because of uncertainty concerning the syllabus of the course. When they are available, standardized examinations are used.

Correspondence courses are subject to acceptance to a total that does not exceed fifteen semester hours if taken from an accredited college or university and acceptable by that institution toward graduation in a baccalaureate degree curriculum.

Courses taken in another institution on a Pass-Fail basis are acceptable if they conform to the conditions for such grades at Bloomsburg State College.

A transfer student is issued an evaluation sheet which stipulates the requirements for graduation which remain to be met; this is subject to revision in the light of subsequent changes in the evaluation of the transcript.

Students of Bloomsburg State College may take courses in other accredited institutions and submit the credit for transfer, provided the courses have been approved in advance by the Vice-President for Academic Affairs.

## 5.8 CHEATING AND PLAGIARISM

Attempts by students to improve grades by cheating in tests and examinations or by plagiarism in papers submitted to the instructor are offenses subject to penalties which may be as

severe as suspension or expulsion.

The instructor may assess penalties ranging from a privately administered reprimand to a grade of E in the course. If the offense appears to merit a more severe penalty, the instructor is responsible for initiating a request for formal consideration by the Student-Faculty Judiciary.

In order to avoid the appearance of plagiarism resulting from ignorance of the proper use of source materials, the student should familiarize himself with the conventions governing use of sources. Such information can be obtained from instructors, or from handbooks found in the Library.

## 5.9 TESTING PROGRAMS

Each new student is required to take entrance classification tests during the orientation period. The results of the tests are used for advisement, counseling, research, and reports. No fee is charged for these tests.

Each candidate for graduation is required to take the Undergraduate Record Examination in his area of specialization. This examination is given three times a year; it is required during the last semester or term of residence.\* An examination fee of \$6.00 is payable by the student. The scores become a part of the student's permanent record and appear in any transcript of that record.

A number of other tests are administered by the College; these are offered as a service to students who may need them for special purposes. Among the tests currently available are the National Teacher Examination, Admission Test for Graduate Students in Business, Graduate School Foreign Language Tests, Law School Admission Test, Test of English as a Foreign Language, Graduate Record Examination. Information concerning these and other tests may be obtained from the Office of Institutional Research.

## 5.10 RESIDENCE REQUIREMENT

At least 32 of the last 64 semester hours credited toward baccalaureate degree must be taken in residence in the College. Former students of the College who were certificated for teaching by completing two or three years of college work and who are candidates for the degree, Bachelor of Science in Education, must complete at least one half of the remaining

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\* Students in secondary education who are majoring in a foreign language are required to take the MLA Proficiency Test. The fee of \$5 is payable by the student.



work for the degree in residence. Residence credit is given for courses taught on the Bloomsburg State College campus in a semester, a summer term, in evening or Saturday classes for teachers, and for off-campus student teaching.

#### **5.11 GRADUATE COURSES IN SENIOR YEAR**

Seniors who in their last semester of residence need fewer than fifteen semester hours of course work to satisfy their requirements for the baccalaureate degree may apply to the Dean of Graduate Studies for permission to supplement their undergraduate courses with graduate courses providing the total of undergraduate and graduate courses will not exceed 16 semester hours. If permission is granted, credit in the graduate courses is held in reserve.

#### **5.12 GRADUATION REQUIREMENTS**

A candidate for graduation with a baccalaureate degree must have satisfied the residence requirement and completed all course requirements of one of the curricula as these are stated in the catalogue. (See Section 5.1, Student Responsibility.)

The minimum acceptable Cumulative Quality Point Average is 2.0.

At least 64 semester hours of the credit toward graduation earned after a student has attained junior standing must be in courses taken in four-year baccalaureate degree granting colleges. (For the minimum residence requirement in this College, see Section 5.10).

The candidate must have taken the Undergraduate Record Examination and paid the examination fee (\$6.00). Secondary majors in foreign languages must have satisfied the MLA examination requirement.

The Diploma Fee (\$5.00) must have been paid.

All financial obligations to the College (library fines, parking fines, any unpaid tuition or housing fees, loans, etc.) must have been cleared.

The candidate must have arranged an exit interview with the Director of the Office of Student Financial Aid.



## 6. UNDERGRADUATE CURRICULA: INTRODUCTION

### 6.1 CHOICE OF CURRICULUM

The undergraduate curricula are administered by three schools, The School of Arts and Sciences, the School of Professional Studies and the School of Business. The requirements of the curricula are stated in the chapters which deal with these schools.

A student must have committed himself to a curriculum and secured his admission thereto by the end of his sophomore year.

Students who upon initial entrance into the College declare an interest in the School of Business are assigned at once to that School; other students are assigned initially to the School of Arts and Sciences. Students upon entrance to either school may make a tentative choice of curriculum or may declare themselves undecided; if they have made a tentative choice this becomes one of the determinants for selection of courses during the period which precedes the final commitment, but admission to *courses* of a curriculum does not bind the School or the College to official admission of the student to the curriculum in cases where admission is selective or restricted. In particular, admission to any teacher education curriculum is selective.

### 6.2 CREDIT

Each curriculum which leads to a baccalaureate degree requires the successful completion of 128 semester hours of credit. A semester hour is defined as the credit for one weekly period of fifty minutes in lecture, discussion or recitation for one semester; in case a course requires laboratory, shop or studio experience, two or in some cases three such periods are considered as equivalent to one period of lecture, discussion or recitation.

### 6.3 GENERAL EDUCATION REQUIREMENTS

Regardless of the School, the curriculum, or the degree sought, sixty semester hours of the total graduation requirement of the four-year baccalaureate programs must be taken in general education courses in accordance with the following pattern:

A. Required Courses ..... 7 or 10 semester hours

These courses consist of English Composition and Health and Physical Education as follows:

**English Composition:** Depending upon the student's preparation as indicated by his entrance test scores, he must take either English 20.101 and 20.102 (six semester hours) or 20.103 (three semester hours).

**Health and Physical Education:** This requirement totals four semester hours, fulfilled as follows: HPE 05.100 or one course in the series 05.101 - 05.120; one course in aquatics from the series 05.150 - 05.155; two courses from the series 05.200 - 05.222. Students who have passed the age of thirty should consult the chairman of the Department of Health and Physical Education for modifications. Students who have served twelve months in the armed services may apply for credit and exemption from this requirement.

B. Restricted Electives ..... 36 semester hours

This requirement is fulfilled by taking twelve semester hours of work in each of the following three groups of disciplines, with at least two of the disciplines of each group represented in the choice of courses:

**Group I, Humanities:** Art, English, foreign languages, music, philosophy, speech.

**Group II, Social Sciences:** Economics, geography, history, political science, psychology, sociology.

**Group III, Sciences and Mathematics:** Biology, chemistry, mathematics, physics, earth science.

C. Free Electives

This requirement is fulfilled by electing courses sufficient in credit to complete the total of 60 semester hours in general education; these courses must be elected from the three groups defined in "B" above.

The courses in the disciplines named in the three groups must be chosen from those designated as general education courses in the course descriptions.

The pattern of general education outlined above reflects a belief that a college must accept responsibility for insuring that the standards of an educated person in reading and writing have been attained and must require the student to have experiences in the three recognized broad areas of knowledge: the humanities for their influence upon intellectual and ethical



values, the social sciences for enlightenment basic to understanding problems of society, and the sciences and mathematics for mature appreciation of the contribution of these branches of knowledge in determining the nature of an industrial-technical society.

Prescription of general education courses has been set at a minimum in order to give each student, with the help of an adviser, the opportunity to survey his previous background and to choose new intellectual experiences that provide opportunity for optimum growth. This policy places important responsibility upon the student for discrimination in making decisions.

If the student's chosen curriculum requires courses which are also designated as acceptable for general education group requirements, the student may elect to apply them toward both his specialization and his general education requirements; the credit for such courses is counted only once in fulfilling the total graduation requirement.



# 7. SCHOOL OF ARTS AND SCIENCES

## 7.1 GENERAL INFORMATION

### Degrees

The degrees, Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) are conferred for programs offered in the School of Arts and Sciences.

The aim of a program which leads to the degree, Bachelor of Arts, is to offer the student opportunity for a liberal education through study in both breadth and depth of disciplines in the humanities, the social sciences and the natural sciences and mathematics.

The aim of a program which leads to the Bachelor of Science degree is to offer opportunity for liberal education together with a specialization that has the potential of application.

There are two patterns for the Bachelor of Arts degree, a pattern of emphasis upon a broad field and a pattern with a major in one of the academic disciplines.

## 7.2 BROAD AREA PROGRAM FOR THE BACHELOR OF ARTS DEGREE

This program offers opportunity for a student to build his own curriculum with a minimum of restrictions. The student selects one of the three areas, the Humanities, the Social Sciences, and the Natural Sciences and Mathematics for his emphasis; he takes the core courses prescribed for that area, fulfills the general education requirements, and elects the remainder of the work from his chosen area. It is required that prior to the close of his sophomore year he submit for his adviser's endorsement a plan for the completion of his studies. At least 40 semester hours of the total graduation requirement of 128 semester hours must be in courses numbered 300 or higher.

### Core Courses in the Humanities:

English 20.260; any additional course in English literature;  
Philosophy 43.301 or 43.302; Speech 25.208 or 25.321;  
One course in art history; one course in music history.

#### Core Courses in the Social Sciences:

Political Science 44.101, 161; Economics 40.211, 212;  
Sociology 45.211 and one elective in sociology;  
Anthropology 46.200; Psychology 48.101 and one elective in  
psychology;  
History 42.111, 42.112 or 42.113;  
Geography 41.101 or 41.102.

#### Core Courses in the Sciences and Mathematics:

Mathematics 53.121, 53.122;  
One full year's work in each of two sciences.

### 7.3 PRE-PROFESSIONAL CURRICULA

The broad area curricula described in Section 7.2 can be adapted to a modern approach to undergraduate study preliminary to the study of medicine, law, and other learned professions. Students who plan to apply for admission to professional colleges of medicine, law, dentistry, pharmacy, veterinary medicine or others should be guided by any requirements for admission set in colleges in which they are interested.

### 7.4 PROGRAMS WITH MAJOR SPECIALIZATION. (DEGREES B.A. and B.S.)

The General Education requirements for all baccalaureate degrees are given in Section 6.3. These requirements must be satisfied; the major requirements must be fulfilled; elective credit in disciplines of the humanities, social sciences and natural sciences and mathematics must be added to reach a total of 128 semester hours.

The prescriptions for a major in a discipline appears at the beginning of the section which describes the courses of that discipline. (Section 7.5)



## 7.5 COURSE DESCRIPTIONS

### HEALTH AND PHYSICAL EDUCATION

Professor Clarence A. Moore (Chairman), Jack A. Jones; Associate Professors Stephen M. Bresett, Russell E. Houk, Eli W. McLaughlin, Jerry K. Medlock, Ronald E. Puhl, Mary E. Wray; Assistant Professors Rodrick Clark Boler, Jerry L. Denstorff, Joanne E. McComb, Burton T. Reese, William J. Sproule, Henry C. Turberville, Jr., Earl W. Voss; Instructor Joan M. Auten.

### COURSES

(Code 05)

**05.100 PERSONAL AND COMMUNITY HEALTH ..... 1 sem. hr.**

Basic concepts and understandings concerning personal and community health.

**05.101-125 PHYSICAL EDUCATION I ..... 1 sem. hr.**

(separate for men and women)

Men . . Theory and practice in the following activities: Apparatus, Field Hockey, Soccer, Speedball, Stunts and Tumbling, Track and Field, Volleyball, Weight Training, and Wrestling.

Women . . Theory and practice in the following activities: Apparatus, Field Hockey, Slimnastics, Stunts and Tumbling, and Volleyball.

**05.150 AQUATICS (Beginning - Co-ed)..... 1 sem. hr.**

Provides opportunity to make the proper physical and mental adjustment to water; basic skills as provided by the American Red Cross with specific emphasis on becoming safe in, on, or about a body of water.

**05.151 AQUATICS (Intermediate - Co-ed)..... 1 sem. hr.**

Preview of basic aquatic skills; Advanced skills and swimming strokes with emphasis on form and efficiency; elementary rescues and aquatic games.

**05.152 AQUATICS (Senior Lifesaving - Co-ed) ..... 1 sem. hr.**

Opportunity to attain or renew the American Red Cross Senior Lifesaving Certificate. Demonstrated ability or instructor approval is a prerequisite.

**05.153 ADVANCED AQUATICS (WSI - Co-ed)..... 1 sem. hr.**

*Prerequisite: Successful completion of 05.152 or a valid Senior Lifesaving Certificate.*

Part I. Preview of the nine basic swimming strokes; techniques of lifesaving; other skills.

Part II. Improvement of skills and practice in teaching.

Prerequisite: Part I.

WSI, or Instructor of Beginning Swimming certificates, may be awarded upon completion of all requirements and instructor approval, but certification is not required for credit.

Activities courses 05.201 - 05.226 are intended to develop knowledge, skill, and appreciation of the activity being taught. Primary emphasis has been placed on those activities possessing "lifetime" recreational values. All are coeducational.

05.201—Archery and Badminton	1 sem. hr.
05.202—Archery and Bowling (fee required)	1 sem. hr.
05.203—Archery and Golf	1 sem. hr.
05.204—Archery and Square Dance	1 sem. hr.
05.205—Badminton and Bowling (fee required)	1 sem. hr.
05.206—Badminton and Golf	1 sem. hr.
05.207—Badminton and Square Dance	1 sem. hr.
05.208—Bowling and Golf (fee required)	1 sem. hr.
05.209—Bowling and Square Dance (fee required)	1 sem. hr.
05.210—Golf and Square Dance	1 sem. hr.
05.211—Bowling and Billiards (fee required)	1 sem. hr.
05.212—Billiards and Square Dance (fee required)	1 sem. hr.
05.213—Fencing and Badminton	1 sem. hr.
05.214—Fencing	1 sem. hr.
05.215—Skiing and Square Dance (fee required)	1 sem. hr.
05.216—Skiing and Golf (fee required)	1 sem. hr.
05.217—Roller Skating and Golf (fee required)	1 sem. hr.
05.218—Badminton	1 sem. hr.
05.219—Tennis and Fencing	1 sem. hr.
05.220—Tennis and Square Dance	1 sem. hr.
05.221—Tennis and Golf	1 sem. hr.
05.222—Dancing	1 sem. hr.
05.223—Roller Skating and Archery (fee required)	1 sem. hr.
05.224—Tennis and Bowling (fee required)	1 sem. hr.
05.225—Riflery and Badminton (fee required)	1 sem. hr.
05.226—Riflery and Fencing (fee required)	1 sem. hr.

**05.242 PHYSIOLOGICAL AND MEDICAL ASPECTS OF  
ATHLETIC COACHING.....3 sem. hrs.**

Basic anatomical and physiological factors affecting movement, endurance, strength, and conditioning in sports; equipment, training, care of injuries, safety problems, and medical research relating to athletics.

**05.251 TECHNIQUES OF COACHING BASEBALL.....2 sem. hrs.**

Development of individual skills and techniques of teaching and coaching baseball.

**05.252 TECHNIQUES OF COACHING BASKETBALL.....2 sem. hrs.**

Analysis of techniques and development of personal skills in basketball.

**05.253 TECHNIQUES OF COACHING FOOTBALL ..... 2 sem. hrs.**

Advanced instruction and practice in offensive and defensive fundamentals for each position; organizational methods and coaching principles.

**05.256 TECHNIQUES OF COACHING CROSS COUNTRY,  
TRACK AND FIELD..... 2 sem. hrs.**

Advanced instruction and practice; rules and officiating techniques; organizational methods for conducting meets, tournaments, and clinics; coaching principles.

**05.257 TECHNIQUES OF COACHING WRESTLING  
AND GOLF ..... 2 sem. hrs.**

Advanced instruction and practice; rules and officiating techniques; organizational methods for conducting meets, tournaments, and clinics; coaching principles.

**05.258 TECHNIQUES OF COACHING SWIMMING  
AND TENNIS..... 2 sem. hrs.**

Strategy, techniques, and theory for interscholastic competition in swimming and tennis.

**05.262 WOMEN'S EXTRAMURAL PROGRAM ..... 2 sem. hrs.**

Theory, techniques, and strategy applicable to coaching women's varsity team sports.

**05.301 BASIC ACTIVITIES I ..... 1 sem. hr.**

Instruction and participation in elementary school rhythms, dance, and movement exploration. Includes classroom and laboratory work.

**05.302 BASIC ACTIVITIES II ..... 1 sem. hrs.**

Instruction and practice in elementary school conditioning exercises; stunts and tumbling; games of low organization including running, circle tag, and classroom games; relays; and games for special occasions.

**05.303 BASIC ACTIVITIES III ..... 1 sem. hrs.**

Instruction and practice in ball-type activities (elementary), lead-up games to team sports, simple team games, team sports, skill testing, and physical fitness testing.

**05.311 METHODS AND MATERIALS IN ELEMENTARY SCHOOL  
HEALTH AND PHYSICAL EDUCATION..... 3 sem. hrs.**

Provides principles and procedures to meet the needs and interests of elementary age children in the area of health and physical education. Not open to HPE Area of Interest students.

**05.320 HEALTH AND SAFETY IN THE  
ELEMENTARY SCHOOL ..... 2 sem. hrs.**

Provides students with health knowledge and training in the areas of elementary school environment and health appraisal techniques for teaching elementary school health, the elementary school health program, and safety education in the elementary school.

**05.321 FIRST AID AND SAFETY.....2-3 sem. hrs.**

Designed for the elementary-secondary teacher who needs training in first aid and safety. Red Cross Standard, Advanced, and Instructor certification may be obtained.

**05.331 RECREATIONAL EDUCATION.....2-3 sem. hrs.**

A discussion of, and practice in, recreation activities used in school and playground situations. Emphasis is placed on recreation planning, techniques of leadership, and worthy use of leisure time.

**05.333 SCHOOL CAMPING AND OUTDOOR EDUCATION..3 sem. hrs.**

Designed to acquaint students with the scope of organized camping and the acquisition of and practice in the basic skills required of teachers involved in camping and outdoor education training. Field experiences are included.

**05.400 SEMINAR IN ELEMENTARY SCHOOL HEALTH  
AND PHYSICAL EDUCATION.....3-6 sem. hrs.**

Designed for the in-service teacher who wishes to acquire the latest knowledge and techniques in health and physical education at the elementary school level.

**05.409 PRINCIPLES AND PROBLEMS OF SECONDARY  
SCHOOL ATHLETICS .....3 sem. hrs.**

The planning and promoting of athletic programs; history, organization, administration, business procedures, public relations, and formulation of policy.

**05.410 THE PLANNING AND ADMINISTRATION OF ELEMENTARY  
SCHOOL HEALTH AND PHYSICAL EDUCATION ....3 sem. hrs.**

Philosophy, objectives, values, and techniques necessary to plan and evaluate a sound program in health and physical education for the elementary school.

**05.411 ADAPTED PHYSICAL EDUCATION .....3 sem. hrs.**

Study and practice in techniques used by physical educators to recognize and meet problems of the handicapped.

**05.412 THE TEACHING OF HEALTH AND PHYSICAL EDUCATION IN  
THE ELEMENTARY GRADES.....3 sem. hrs.**

Methods, materials, and practice in teaching health and physical education for primary, intermediate, and upper grades. Area of interest and in-service teachers only.



**05.420 TECHNIQUES IN HEALTH AND PHYSICAL EDUCATION FOR SPECIAL EDUCATION TEACHERS .....3 sem. hrs.**

Sound principles and procedures for meeting physical, emotional, and social needs for the mentally retarded.

**GROUP I: HUMANITIES**

**FOREIGN LANGUAGES**

Professors Charles Whitney Carpenter II, Eric W. Smithner, Alfred E. Tonolo; Associate Professors Ariane Foureman (Chairman), Mary Lou John, George W. Neel; Assistant Professors Ben C. Alter, Blaise C. Delnis, Edilberto A. Marban, Christine T. Whitmer.

**Placement and Proficiency Tests.**

Incoming freshmen with two or more years of study in their major language should schedule the Intermediate course 103. Those with one year's study or no language background should schedule Elementary course 101.

All freshmen with two or more years of study in their language major are required to take placement tests the first week of classes. Test results are evaluated by the Foreign Language Faculty. It may be suggested that the student be changed from the Intermediate 103 class to a course more commensurate with his abilities in the four language skills.

**Language Laboratory**

Weekly laboratory sessions are required in all elementary and intermediate courses. Students are encouraged to make additional use of the language laboratory facilities on a voluntary basis.

**Programs Abroad**

Each summer, the Department offers study programs abroad. Language majors are encouraged to participate in one of these programs before graduating.

**Art and Sciences Majors**

Majors are offered in French, German and Spanish. A major for the B.A. degree requires a minimum of 30 semester hours in the language in courses beyond 101, 102; if a student is exempt from either or both of courses numbered 103, 104, he takes additional advanced electives as substitutes.

It is recommended that students who take a major in one of the languages also elect related courses in fields such as English, fine arts, a second language, history, philosophy, theatre.

## FRENCH

Arts and Sciences major for the B.A. degree:

French 10.103, 104, 201, 202, 211, 212;

Elective courses in French numbered above 200 to complete the minimum credit of 30 semester hours: courses chosen from 10.231, 310, 401, 410 are recommended for students interested primarily in study of language and culture; courses chosen from 10.230, 321, 322, 330, 331, 430, 431, 432, 433, 434 are recommended for students who plan to attend graduate school or who are interested primarily in literature.

## COURSES

(Code 10)

Courses designated † may be used toward General Education. Courses numbered 400 and above may also be used with special permission of the department.

(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

### 10.101 ELEMENTARY FRENCH I †.....4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall*.

### 10.102 ELEMENTARY FRENCH II † .....4 sem. hrs.

Continuation of Fr. 10.101. Reading and writing given additional emphasis. Weekly laboratory sessions required. *Spring*.  
*Prerequisite: 10.101 or equivalent.*

### 10.103 INTERMEDIATE FRENCH I † .....3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions are required. *Fall*.  
*Prerequisite: 10.102 or equivalent.*

### 10.104 INTERMEDIATE FRENCH II † .....3 sem. hrs.

Continuation of French 10.103. *Spring*.  
*Prerequisite: 10.103 or equivalent.*

### 10.201 GRAMMAR AND COMPOSITION † .....3 sem. hrs.

In-depth study of French grammar. Stress on application of grammatical principles in controlled and free written compositions. *Fall*.  
*Prerequisite: 10.103 or equivalent.*

### 10.202 CONVERSATION † .....3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary. *Spring*.  
*Prerequisite: 10.104 or equivalent.*

**10.204 FRENCH STUDIES ABROAD † .....6 sem. hrs.**

*Prerequisite: Minimum 2 semesters of French.*

**10.205 PHONETICS † .....3 sem. hrs.**

Structural analysis of the French sound system. Drills on accurate pronunciation and intonation. Selections of prose and poetry presented for imitation. *Fall.*

*Prerequisite: 10.102 or equivalent.*

**10.211 (210) FRENCH CULTURE AND CIVILIZATION I † .....3 sem. hrs.**

Major developments of French culture from the historical viewpoint. *Fall.*

*Prerequisite: 10.201 and 202.*

**10.212 (210) FRENCH CULTURE AND CIVILIZATION II † .....3 sem. hrs.**

Major aspects of life in France today. *Spring.*

*Prerequisite: 10.201 and 202.*

**10.230 INTRODUCTION TO THE STUDY OF LITERATURE † .....3 sem. hrs.**

Techniques of literary analysis. Comparative literary criticism: poem, play, novel, and essay. Basic concepts of genres, literary currents and schools. *'Spring '72 and '74.*

*Prerequisite: 10.201 and 202.*

**10.231 SELECTED READINGS † .....3 sem. hrs.**

French for reading knowledge; selected modern works. *Spring '73 and '75.*

*Prerequisite: 10.201 and 202.*

**10.301 STRUCTURE AND TRANSLATION † .....3 sem. hrs.**

Study of structural patterns of French in comparison with English. Problems of translation. Recommended for students planning a career in international affairs. *Fall '71 and '73.*

*Prerequisite: 10.201 and 202.*

**10.310 FOLKLORE † .....3 sem. hrs.**

Study of folk genres based on both social and literary aspects of French folklore. Recommended for students in Elementary Education. *Spring '72 and '74.*

*Prerequisite: 10.201 and 202.*

**10.321 SURVEY OF FRENCH LITERATURE I † .....3 sem. hrs.**

Literature of France since the French revolution. *Fall.*

*Prerequisite: 10.201 and 202.*

**10.322 (320) SURVEY OF FRENCH LITERATURE II †....3 sem. hrs.**

Literature of France since its earliest beginning to the Revolution.  
*Spring.*  
*Prerequisite: 10.201 and 202.*

**10.330 SHORT STORY OF SHORT NOVEL †.....3 sem. hrs.**

Selected works are read and discussed. Voltaire, Maupassant, Daudet and modern writers. Intended to promote literary appreciation. *Fall.*  
*Prerequisite: 10.201 and 202.*

**10.331 CONTEMPORARY PLAYS †.....3 sem. hrs.**

Selected readings and discussion of major modern French playwrights: Cocteau, Sartre, Giraudoux, Anouilh, Camus, Ionesco, Beckett.  
*Spring.*  
*Prerequisite: 10.201 and 202.*

**10.341 FRENCH LITERATURE IN TRANSLATION I †.....3 sem. hrs.**

Reading, analysis and discussion of major French works in translation, beginning with the *Song of Roland* and continuing with authors such as Rabelais, Pascal, Moliere, Voltaire, Rousseau, and Diderot. *Fall '72 and '74. Not open to French majors.*

**10.342 FRENCH LITERATURE IN TRANSLATION II †....3 sem. hrs.**

Readings in the novel and the theatre of 19th and 20th century with authors such as Balzac, Stendhal, Flaubert, Gide, Proust, Camus, Genet, Ionesco, and others. *Spring '73 and '75. Not open to French majors.*

**10.401 (405) ADVANCED FRENCH LANGUAGE .....3 sem. hrs.**

Thorough review of phonology, morphology, syntax and semantics.  
*Fall '71 and '73.*  
*Prerequisite: 10.201 and 202.*

**10.410 FRENCH AREA STUDIES.....3 sem. hrs.**

Significant contemporary problems of France. Its position in the world today and its relation to the United States. Reading of current French periodicals and magazines. Recommended for students planning to study abroad. *Spring '72 and '74.*  
*Prerequisite: 10.211 and 212.*

**10.430 20TH CENTURY FRENCH LITERATURE.....3 sem. hrs.**

Readings, discussions, and reports on the literature and ideas of the current century beginning with short works in prose and including novels, plays, and some poetry. *Fall '71 and '73.*  
*Prerequisite: 10.321.*

**10.431 (430) 19TH CENTURY FRENCH LITERATURE .....3 sem. hrs.**

Readings, discussions, and reports on 19th century masters of the romantic, realistic, and naturalistic movements. *Spring '72 and '74.*  
*Prerequisite: 10.321.*



**10.432 (425) THE ENLIGHTENMENT.....3 sem. hrs.**

Readings, discussions and reports on the ideas of the "philosophes." Works of Diderot, Voltaire, Rousseau, Montesquieu. *Fall '72 and '74.*  
*Prerequisite: 10.322.*

**10.433 (420) CLASSICISM .....3 sem. hrs.**

The formation of the classic spirit. Readings, discussions, and reports on major dramatic works of Corneille, Moliere, and Racine. *Spring '73 and '75.*  
*Prerequisite: 10.322.*

**10.434 (415) MIDDLE AGES AND RENAISSANCE .....3 sem. hrs.**

Readings, discussions, and reports on the origin of French theatre, poetry, and prose. Works of Villon, Marot, Rabelais, and Montaigne. *Spring '73 and '75.*  
*Prerequisite: 10.322.*

**10.498 (499) DIRECTED STUDIES.....3 sem. hrs.**

Special area of language or literature. Allows the student to cover a particular aspect under special circumstances. Open to advanced French students with permission of the instructor. *Fall '72 and '74 and upon student needs.*

**GERMAN**

Arts and Sciences major for the B.A. degree:

German 11.103, 104, 201, 202, 211, 212;  
Elective courses in German numbered above 200 to complete the minimum credit of 30 semester hours: courses chosen from 11.301, 310, 401, 410 are recommended for students interested primarily in the study of language and culture; courses chosen from 11.231, 321, 322, 330, 430, 431 are recommended for students who are interested primarily in literature or who plan to attend graduate school.

**COURSES**

(Code 11)

Courses designated † may be used toward General Education. Courses numbered 400 or above may also be used with special permission of the department.  
(Note: Where course numbers have been changed, the former numbers appear in parenthesis.)

**11.101 ELEMENTARY GERMAN I †.....4 sem. hrs.**

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall.*

- 11.102 ELEMENTARY GERMAN II †** .....4 sem. hrs.  
 Continuation of German 11.101. Reading and writing given additional emphasis. Weekly laboratory sessions required. *Spring*.  
*Prerequisite: 11.101 or equivalent.*
- 11.103 INTERMEDIATE GERMAN I †** .....3 sem. hrs.  
 Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly laboratory sessions required. *Fall*.  
*Prerequisite: 11.102 or equivalent.*
- 11.104 INTERMEDIATE GERMAN III†**.....3 sem. hrs.  
 Continuation of Ger. 11.103. *Spring*.  
*Prerequisite: 11.103 or equivalent.*
- 11.107 SCIENTIFIC GERMAN I †**.....3 sem. hrs.  
 Intensive training in the use of German for purposes of understanding scientific articles and excerpts. Accuracy of translation is stressed. *Fall*.  
*Prerequisite: 11.102 or equivalent.*
- 11.108 SCIENTIFIC GERMAN II †** .....3 sem. hrs.  
 Continuation of Ger. 11.107. *Spring*.  
*Prerequisite: 11.107.*
- 11.201 GRAMMAR AND COMPOSITION †** .....3 sem. hrs.  
 In-depth study of German grammar. Stress on application of grammatical principles in controlled and free written compositions. *Fall*.  
*Prerequisite: 11.104 or equivalent.*
- 11.202 CONVERSATION †** .....3 sem. hrs.  
 Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary. *Spring*.  
*Prerequisite: 11.104 or equivalent.*
- 11.204 GERMAN STUDIES ABROAD †** .....6 sem. hrs.  
*Prerequisite: Minimum 2 semesters of German.*
- 11.211 (210) GERMAN CULTURE AND CIVILIZATION I †**.....3 sem. hrs.  
 An understanding of the geography, government, customs, education, arts, and history of the German-speaking countries, as well as a vivid sense of the current scenes in these countries. *Fall*.  
*Prerequisite: 11.201 and 202.*

**11.212 (210) GERMAN CULTURE AND CIVILIZATION II † .....3 sem. hrs.**

Continuation of Ger. 11.211. *Spring*.  
*Prerequisite: 11.201 and 202.*

**11.231 SELECTED READINGS † .....3 sem. hrs.**

German for reading knowledge; selected modern works. *Spring '73 and '75*.  
*Prerequisite: 11.201 and 202.*

**11.301 (202) TEXTE ZUM NACHERZAHLEN † .....3 sem. hrs.**

Short descriptive pieces of prose are read which the student repeats from memory. Structure from simple to complex, and vocabulary building are stressed so that the student may achieve a more effective form for thought-expression. *Fall '71 and '73*.  
*Prerequisite: 11.201 and 202.*

**11.302 (421) GERMAN RADIO PLAY † .....3 sem. hrs.**

A study of this genre in Germany, Switzerland, and Austria from its beginning to the present. Most important authors to be studied: Borchert, Frisch, Durrenmatt. *Spring '72*.  
*Prerequisite: Two German 200-level courses.*

**11.310 FOLKLORE † .....3 sem. hrs.**

Study of folk genres on both social and literary aspects of German Folklore. Recommended for students in Elementary Education. *Fall '72 and '74*.  
*Prerequisite: 11.201 and 202.*

**11.321 (320) SURVEY OF GERMAN LITERATURE I † .....3 sem. hrs.**

Readings and discussions of representative works from the following periods: Old High German, Middle High German, Renaissance, Reformation, and Baroque. *Fall*.  
*Prerequisite: 11.201 and 202.*

**11.322 (321) SURVEY OF GERMAN LITERATURE II † .....3 sem. hrs.**

Continuation of Ger. 11.321. Readings and discussions of representative works from the Enlightenment to the present. *Spring*.  
*Prerequisite: 11.201 and 202.*

**11.330 INTRODUCTION TO THE STUDY OF LITERATURE † .....3 sem. hrs.**

Techniques of literary analysis. Comparative literary criticism: poem, play, novelle, short-story, novel, and essay. Basic concepts of genres, literary currents, and schools. *Spring '73 and '75*.  
*Prerequisite: 11.201 and 202.*

- 11.333 THE GERMAN NOVELLE †.....3 sem. hrs.**
- The *Novelle* as a literary form, its several types, and readings of well-known examples of the genre. *Spring '72 and '74.*  
*Prerequisite: 11.201 and 202.*
- 11.401 (409) ADVANCED GERMAN LANGUAGE .....3 sem. hrs.**
- Through review of phonology, morphology, syntax and semantics. *Fall '71 and '73.*  
*Prerequisite: 11.201 and 202.*
- 11.402 HISTORY OF THE GERMAN LANGUAGE.....3 sem. hrs.**
- The history of the German language covering the Primitive Germanic, Gothic, Old High German, Middle High German, and Early New High German stages, also a review of the precedents of the Germanic tongue and significant aspects of its linguistics. *Fall '72 and '74.*  
*Prerequisite: 11.401.*
- 11.403 WORKSHOP.....3 sem. hrs.**
- Selected materials for practical use. Recommended for Secondary Education majors. *Summer session.*  
*Prerequisite: 11.401.*
- 11.410 GERMAN AREA STUDIES.....3 sem. hrs.**
- Significant contemporary problems of German speaking countries. Their position in the world today and relation to the United States. Reading of current German periodicals and magazines. Recommended for students planning to study abroad. *Spring '73 and '75.*  
*Prerequisite: 11.211 and 212.*
- 11.430 LESSING-GOETHE-SCHILLER.....3 sem. hrs.**
- The life and works of these best-known of German authors and the effect their writings had in their time and subsequently. *Spring '72 and '74.*  
*Prerequisite: 11.322.*
- 11.431 GERMAN ROMANTICISM .....3 sem. hrs.**
- A study of the Romantic movement. Its best-known representatives: Tieck, Brentano, Novalis, the Schlegels, E.T.A. Hoffman, Heine, and others. *Spring '72 and '74.*  
*Prerequisite: 11.322.*
- 11.498 (499) DIRECTED STUDIES.....3 sem. hrs.**
- Special area of language or literature. Allows the student to cover a particular aspect under special circumstances. Open to advanced German students with permission of the instructor. *Spring '74 and upon student needs.*



## SPANISH

Arts and Sciences major for the B.A. degree:

Spanish 12.103, 104, 201, 202; 12.210 and/or 211;

Elective courses in Spanish numbered above 200 to complete the minimum credit of 30 semester hours: courses chosen from 12.231, 310,401, 410 are recommended for students interested primarily in the study of language and culture; courses chosen from 12.230, 321, 322,323, 324, 330, 430,431,440, 450,460 are recommended for students who are interested primarily in literature or who plan to attend graduate school.

### COURSES

(Code 12)

Courses designated † may be used toward General Education. Courses numbered 400 or above may also be used with special permission of the department.

(Note: Where course numbers have been changed, the former numbers appear in parentheses.)

#### 12.101 ELEMENTARY SPANISH I † .....4 sem. hrs.

Audio-lingual approach leads to development of the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall.*

#### 12.102 ELEMENTARY SPANISH II † .....4 sem. hrs.

Continuation of 12.101. Reading and writing given additional emphasis. Weekly laboratory sessions required. *Spring.*  
*Prerequisite: 12.101 or equivalent.*

#### 12.103 INTERMEDIATE SPANISH I † .....3 sem. hrs.

Basic grammar is reviewed and new grammatical concepts are presented. Course taught in target language. Weekly lab sessions required. *Fall.*  
*Prerequisite: 12.102 or equivalent.*

#### 12.104 INTERMEDIATE SPANISH II † .....3 sem. hrs.

Continuation of 12.103. *Spring.*  
*Prerequisite: 12.103 or equivalent.*

#### 12.201 GRAMMAR AND COMPOSITION † .....3 sem. hrs.

In-depth study of Spanish grammar. Stress on application of grammatical principles in Controlled and free written compositions. *Fall.*  
*Prerequisite: 12.104 or equivalent.*

#### 12.202 CONVERSATION † .....3 sem. hrs.

Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports are assigned. Grammar reviewed when necessary. *Spring.*  
*Prerequisite: 12.104 or equivalent.*

**12.204 SPANISH STUDIES ABROAD † ..... 6 sem. hrs.**

*Prerequisite: Minimum 2 semesters of Spanish.*

**12.205 PHONETICS † ..... 3 sem. hrs.**

Contrastive analysis of English and Spanish sound systems. Consonantal sounds stressed. Outside reading and oral reports assigned. *Fall.*

*Prerequisite: 12.102 or equivalent.*

**12.210 SPANISH CULTURE AND CIVILIZATION † ..... 3 sem. hrs.**

An understanding of Spain through geography, education, customs, fine arts, and history. *Fall.*

*Prerequisite: 12.201 and 202.*

**12.211 (210) SPANISH-AMERICAN CULTURE AND CIVILIZATION † ..... 3 sem. hrs.**

An understanding and appreciation of the present and past life of the Spanish-American Republics. *Spring.*

*Prerequisite: 12.201 and 202.*

**12.230 INTRODUCTION TO THE STUDY OF LITERATURE † ..... 3 sem. hrs.**

Basic analysis of selected literary works of poem, play, novel, and essay. Basic concepts of genres, literary currents and schools. *Fall.*

*Prerequisite: 12.201 and 202.*

**12.231 SELECTED READINGS † ..... 3 sem. hrs.**

Spanish for reading knowledge; selected modern works. *Spring.*

*Prerequisite: 12.201 and 202.*

**12.301 STRUCTURE AND TRANSLATION † ..... 3 sem. hrs.**

Study of structural patterns of Spanish in comparison with English. Problems of translation. Recommended for students planning a career in international affairs. *Fall '71 and '73.*

*Prerequisite: 12.201 and 202.*

**12.310 FOLKLORE † ..... 3 sem. hrs.**

Study of folk genres based on both social and literary aspects of Spanish folklore. Recommended for students in Elementary Education. *Spring.*

*Prerequisite: 12.201 and 202.*

**12.321 (301) SURVEY OF SPANISH LITERATURE I † ..... 3 sem. hrs.**

Literature of Spain covering the 19th and 20th centuries. *Fall '71 and '73.*

*Prerequisite: 201 and 202.*

**12.322 (301) SURVEY OF SPANISH LITERATURE II †....3 sem. hrs.**

Literary genres are traced from the medieval period through the 18th century. Principal writers and representative works are emphasized. *Spring '72 and '74.*  
*Prerequisite: 12.201 and 202.*

**12.323 (302) SURVEY OF SPANISH-AMERICAN LITERATURE I †.....3 sem. hrs.**

Emphasis on Modernism, Post-Modernism, Vanguardismo, Essay, Theatre, and Novel. *Fall '72 and '74.*  
*Prerequisite: 12.201 and 202.*

**12.324 (302) SURVEY OF SPANISH-AMERICAN LITERATURE II †.....3 sem. hrs.**

Literature of Spanish-America from discovery to middle of 19th century. Presentation of most significant figures. *Spring '73 and '75.*  
*Prerequisite: 12.201 and 202.*

**12.330 SHORT STORY †.....3 sem. hrs.**

First genre course. Intended to promote literary appreciation. Selected works are read and discussed. *Fall.*  
*Prerequisite: 12.201 and 202.*

**12.401 ADVANCED SPANISH LANGUAGE.....3 sem. hrs.**

Thorough review of phonology, morphology, syntax, and semantics. *Spring '72 and '74.*  
*Prerequisite: 12.201 and 202.*

**12.410 SPANISH AREA STUDIES .....3 sem. hrs.**

Significant contemporary problems of Spain or Spanish-America. Their position in the world today and relation to the United States. Reading of current Spanish periodicals and magazines. Recommended for students planning to study abroad. *Spring '73 and '75.*  
*Prerequisite: 12.210 and/or 211.*

**12.430 SPANISH NOVEL .....3 sem. hrs.**

Emphasis on realistic novel of the 19th century. Such writers as Valera, Pereda, Galdos, "Clarín" are included. *Fall '71, '74, and Spring '73.*  
*Prerequisite: 12.321.*

**12.431 SPANISH-AMERICAN NOVEL.....3 sem. hrs.**

Representative trends from beginning to present time. *Spring '72, '75, and Fall '73.*  
*Prerequisite: 12.323 and 324.*

**12.440 CONTEMPORARY PLAYS.....3 sem. hrs.**

Reading and discussion of selected authors from late 19th century to the present. *Fall '72 and '74.*  
*Prerequisite: 12.321 and/or 323.*

**12.450 CONTEMPORARY POETRY..... 3 sem. hrs.**

A study of representative poets of Spain or Spanish-America. *Spring '72, '74.*

*Prerequisite: 12.321 or 323.*

**12.460 DRAMA OF THE GOLDEN AGE ..... 3 sem. hrs.**

The theatre of Cervantes, Lope de Vega, Tirso de Molina, Mira de Amescua, Ruiz de Alarcon, Calderon, Rojas Zorrilla, Moreto. *Fall '72, '74.*

*Prerequisite: 12.322.*

**12.498 (499) DIRECTED STUDIES..... 3 sem. hrs.**

Special area of language or literature. Allows the student to cover a particular aspect under special circumstances. Open to advanced Spanish students with permission of the instructor. *Fall '71, '73. and Spring '75.*

## RUSSIAN

### COURSES

(Code 13)

† General Education courses.

**13.101 ELEMENTARY RUSSIAN I †..... 4 sem. hrs.**

Audio-lingual and structural approach toward rapid development of acceptable pronunciation, vocabulary accumulation in a textual frame of reference. Understanding and speaking are stressed. Students learn to read and write the cyrillic alphabet. *Fall.*

**13.102 ELEMENTARY RUSSIAN II † ..... 4 sem. hrs.**

Continuation of the development of the basic skills of understanding, speaking, reading, and writing. *Spring.*

*Prerequisite: 13.101 or equivalent.*

**13.103 INTERMEDIATE RUSSIAN I †..... 3 sem. hrs.**

Maximum class use of the spoken language. Review of grammar and syntax based on excerpts from noted Russian authors. *Fall.*

*Prerequisite: 13.102 or equivalent.*

**13.104 INTERMEDIATE RUSSIAN II †..... 3 sem. hrs.**

Continuation and reinforcement of skills acquired in 13.103. A cultural reader and a scholastic Russian magazine are read. *Spring.*

*Prerequisite: 13.103 equivalent.*



## ENGLISH

Professors Louis F. Thompson (Chairman), Charles C. Kopp, Cecil C. Seronsy, Janet Stamm, Thomas G. Sturgeon; Associate Professors Gerald H. Strauss, Dale M. Anderson, William D. Eisenberg, Ronald A. Ferdock, John McLaughlin, Alva W. Rice, Jordan P. Richman, William C. Roth, Susan Rusinko, Richard C. Savage; Assistant Professors Virginia A. Duck, Margaret Read Lauer, Dorothy O. McHale, Robert G. Meeker, B. Joyce Miller; Instructors Richard S. Devlin, Nancy E. Gill, Ervene F. Gulley.

Arts and Sciences major for the B.A. degree:

English 20.260; 20.311 or 20.312 or 20.411; 20.490, 20.493; nine semester hours of survey courses chosen from 20.120, 121, 220, 221, 222, 223, 341, 342, 343, 344, 345; one course chosen from 20.251, 280, 333, 360, 361, 362, 370, 371, 372, 373, 374, 380.

Certificate in Journalism.

This certificate is granted by the College when the student completes English 20.105, 205, 255 and at least two years of satisfactory service as a staff member of the *Maroon and Gold*, *Obiter*, or *Olympian*.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

## COURSES

(Code 20)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

### 20.101 ENGLISH COMPOSITION .....3 sem. hrs.

Study intended to produce proficiency in reading and writing. Frequent themes; principles of rhetoric and grammar.

### 20.102 WRITING PROFICIENCY EXAMINATION .....3 sem. hrs.

Three compositions written under examination conditions on topics provided by the staff. Students whose performance is adequate receive credit for the course; others are referred to the writing laboratory for further study before repeating the examinations.

### 20.103 WRITING PROFICIENCY EXAMINATION .....3 sem. hrs.

Experiences similar to those of 20.102 but reserved for freshmen who have been exempted from 20.101 on the basis of admissions criteria.

### 20.105 (203) INTRODUCTION TO JOURNALISM.....3 sem. hrs.

Emphasis on principles and techniques of reporting. Development of journalism, theory and practice of its principles; organizational patterns of news stories; methods of gathering news and writing various types of news stories; fundamentals of editing.

- 20.111 LANGUAGE AND SOCIAL INTERACTION † .....3 sem. hrs.**  
 A survey of the history, varieties, forms and purposes of language and of the ways in which it may be used, understood, and described.
- 20.120 (207) WORLD LITERATURE I † .....3 sem. hrs.**  
 Important literary works of the Western world, classic Greece to the Renaissance, in terms of genres and literary movements.
- 20.121 (208) WORLD LITERATURE II † .....3 sem. hrs.**  
 A continuation of English 120, covering works of more recent date.
- 20.151 INTRODUCTION TO LITERATURE † .....3 sem. hrs.**  
 A basic course exploring literature as experience and the techniques by which it communicates in short story, novel, drama, and poem. Not accepted for a major in English.
- 20.153 FOLKLORE † .....3 sem. hrs.**  
 A survey of such traditional forms of oral literature as epic, ballad, folksong, folktale, and superstitions, examined in terms of origin, transmission, and influence on literature.
- 20.205 (204) FEATURE WRITING .....3 sem. hrs.**  
 Methods of writing articles for newspapers and magazines. Techniques of gathering information and developing various types of feature articles. Study and discussion of published articles.
- 20.220 (231) BRITISH WRITERS I † .....3 sem. hrs.**  
 Survey of selections from Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Boswell, and Johnson.
- 20.221 (232) BRITISH WRITERS II † .....3 sem. hrs.**  
 Survey of selections from Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot.
- 20.222 (381) AMERICAN LITERATURE I † .....3 sem. hrs.**  
 Survey of American Literature from its Colonial beginnings through the Civil War, with emphasis on the writers of the American Renaissance.
- 20.223 (382) AMERICAN LITERATURE II † .....3 sem. hrs.**  
 Continues English 222, covering major writers and significant social and literary movements to the present day.
- 20.251 (209) LITERARY GENRES.....3 sem. hrs.**  
 Literary form as a vehicle for expression of ideas. Designed for English majors.

**20.255 (301) INTRODUCTION TO MASS COMMUNICATIONS.....3 sem. hrs.**

The role of mass communications: theories and realities of the freedom of the press; growth of the print media; media of radio, television, and film; mass communications industries and professions; education for mass communication.

**20.260 (249) SHAKESPEARE † .....3 sem. hrs.**

Study of eighteen of Shakespeare's plays with emphasis on Shakespeare as poet and playwright and with attention to conditions of the Elizabethan Theatre and the history of the Shakespearean text.

**20.280 (325) POETRY † .....3 sem. hrs.**

Designed to permit student exploration of the genre, under guidance of instructor. The nature of poetry — its aims, how it is created, historical and individual changes and variations in manner and matter.

**20.301 (202) CREATIVE WRITING † .....3 sem. hrs.**

Original creative work in one or more of the genres, as determined by the instructor, receives critical analysis by the instructor and the class in group discussion.

**20.302 ADVANCED COMPOSITION.....3 sem. hrs.**

Designed for English majors and concentrators, though other students are admitted. Aims to develop in the student a greater mastery over the elements of effective writing. Attention is given to the problem of evaluative writing.

*Prerequisite: Junior standing.*

**20.311 (401) STRUCTURE OF ENGLISH † .....3 sem. hrs.**

A descriptive study of the phonology, morphology, syntax, and graphic formulas of modern American English.

*Prerequisite: Junior standing.*

**20.312 (402) HISTORY OF THE ENGLISH LANGUAGE .....3 sem. hrs.**

A descriptive study of the causes and effects of phonemic, morphological, syntactic, and semantic change in the English language from the Anglo-Saxon conquest to the present.

*Prerequisite: Junior standing.*

**20.331 (312) IDEAS IN LITERATURE † .....3 sem. hrs.**

Examines such recurrent concepts in literature as the conflict between freedom and fate, the place of good and evil in the scheme of things, and the role of the individual in society.

**20.332 (307) RUSSIAN LITERATURE IN TRANSLATION † .....3 sem. hrs.**

An introduction to the "golden age" of Russian literature — from Pushkin to Sholokhov. Readings in English of novels, poems, plays, and short stories. Attention given to ideas reflected in the works as well as to the medium through which they are dramatized.

**20.333 (386) LATER AMERICAN PROSE † ..... 3 sem. hrs.**

Study of prose works of American literature, both fiction and non-fiction, from the late 19th Century to the present, emphasizing literary merit and social significance. Such writers as Riis, Steffens, Sinclair, Allen, E. B. White, Thurber, Baldwin, Ellison, Claude Brown, Steinbeck, and John Williams are included.

**20.341 EARLY AND MIDDLE ENGLISH LITERATURE † ..... 3 sem. hrs.**

A study of *Beowulf* and other Old English works in translation and of medieval chronicles and romances including *Sir Gawain and the Green Knight* and *Le Morte d'Arthur*.

**20.342 (347) 16TH CENTURY LITERATURE † ..... 3 sem. hrs.**

The non-dramatic prose and verse of the period, emphasizing the last quarter of the century. The humanists: Erasmus, More, Castiglione, Elyot, Ascham; Renaissance forms and ideas in Lyly, Sidney, Spenser, Daniel, Drayton, Shakespeare, Marlowe, Chapman, Greene, and others.

**20.343 (352) 17TH CENTURY LITERATURE † ..... 3 sem. hrs.**

Poetry and prose, beginning with Jonson. The rival traditions of Donne and Jonson in such poets as Herbert, Vaughan, Quarles, Cowley, Herrick, and Marvell. Principal prose writers: Burton, Browne, Taylor, Fuller, Baxter, Bunyan, and Dryden.

**20.344 (357) 18TH CENTURY LITERATURE † ..... 3 sem. hrs.**

Survey of literature of the Augustan Age in England: Addison and Steele, Swift, Pope, Boswell, and Johnson; forerunners of the Romantic Revival; beginnings of the British novel; the plays of Addison, Steele, Sheridan, and Goldsmith.

**20.345 (364) 19TH CENTURY LITERATURE † ..... 3 sem. hrs.**

Covers the major poets such as Wordsworth, Keats, Tennyson, Arnold, as well as major prose writers: Hazlitt, Lamb, DeQuincey, Peacock, Newman, Huxley, Carlyle, and others.

**20.351 (316) CHILDREN'S LITERATURE ..... 3 sem. hrs.**

Examination and study of literature for children, with emphasis on criteria for selecting literature for the classroom and the library, suggestions for presenting literary works in the elementary classroom, and basic literary concepts.

*Prerequisite: Junior standing.*

**20.360 (342) EARLY ENGLISH DRAMA † ..... 3 sem. hrs.**

Early native drama, including miracle and mystery plays, morality plays, and interludes. Elizabethan dramatists: Heywood, Marlowe, Kyd, Jonson, Webster, Middleton, and Ford.



**20.361 (356) RESTORATION AND LATER DRAMA † .....3 sem. hrs.**

Wycherly, Etherege, Congreve, Farquhar, Dryden, and Otway, with consideration of Moliere's influence in Restoration drama. Eighteenth century sentimental comedy and tragedy, and reaction against it in Goldsmith and Sheridan. Trends in 19th century drama.

**20.362 (322) MODERN DRAMA † .....3 sem. hrs.**

Major Continental, English, and American plays from Ibsen to Beckett, with emphasis on contemporary attitudes, themes, and structure as contrasted with those of traditional dramatists.

**20.370 (358) 18TH CENTURY NOVEL † .....3 sem. hrs.**

Emphasizes major novels of Defoe, Richardson, Fielding, Smollett, Sterne, and Austen; traces the development of the English novel from picaresque to realistic.

**20.371 (363) 19TH CENTURY NOVEL † .....3 sem. hrs.**

The major British writers of the Victorian Period, with supplementary readings in the works of the great Continental novelists.

**20.372 (324) MODERN NOVEL † .....3 sem. hrs.**

A study of major modern novelists, exclusive of American and Russian writers. Emphasizes developments in fictional art, particularly realism, naturalism, impressionism, and expressionism. Begins in the turn-of-the-century novel of Conrad and moves through the writings of Mann, Proust, Lawrence, Kafka, Woolf, Joyce, and/or one or two others of the instructor's choice.

**20.373 (385) AMERICAN NOVEL † .....3 sem. hrs.**

Studies the development of the novel in America from its beginnings about 1800 to the present. Emphasizes highlights of form, theme, and reflections of American literary and social movements. Some attention to parallel developments in the European novel.

**20.374 (321) SHORT STORY † .....3 sem. hrs.**

A study of the history, characteristics, and techniques of the modern short story through reading and analysis of representative samples — American, British, Continental, and Latin-American.

**20.380 (326) MODERN POETRY † .....3 sem. hrs.**

An introduction to contemporary poetic movements through study of Emily Dickinson, T. S. Eliot, E. E. Cummings, Robert Lowell, Allen Ginsberg, Thomas Hardy, Gerard Manley Hopkins, W. B. Yeats, W. H. Auden, Dylan Thomas, and other poets.

**20.381 (343) CHAUCER † .....3 sem. hrs.**

Study of Chaucer's major poetry, with practice in speaking and reading Middle English and with major emphasis on Chaucer's literary achievement and his humanism.

20.382 (354) MILTON † .....3 sem. hrs.

A comprehensive study of the poetry and prose of John Milton.

20.383 (332) BLAKE AND YEATS † .....3 sem. hrs.

A study of two great poets united by their search for a vision and by having created in this search perhaps the most original and complete mythological systems in English literature.

20.411 (403) GENERATIVE-TRANSFORMATIONAL GRAMMAR .....3 sem. hrs.

Explores the most recent theories of grammatical analysis with particular attention to transformational grammar.

*Prerequisite: Eng. 312, or permission of instructor.*

20.490 SEMINAR.....3 sem. hrs.

Independent study with opportunity to explore a literary subject not offered in regularly scheduled courses. Content, determined by instructor, varies each time the course is offered.

*Prerequisite: Junior standing. Open to non-majors.*

20.491 HONORS SEMINAR .....3 sem. hrs.

Independent study in depth of a literary topic, approved in prior consultation with the instructor, deriving from the student's work in other English courses. Limited to ten outstanding majors or non-majors with consent of instructor after an interview.

*Prerequisite: Junior standing.*

20.492 (405) CRITICISM.....3 sem. hrs.

For advanced students majoring in English. Examines works of major critics: Plato, Aristotle, Longinus, Sidney, Boileau, Coleridge, and others. Applies critical principles to literary texts.

20.493 BIBLIOGRAPHY AND LITERARY RESEARCH.....3 sem. hrs.

History of literary scholarship, study of book production, and practice in preparing specialized bibliographies and in planning scholarly projects.

## SPEECH

Professors Melville Hopkins (Chairman); Associate Professors Richard Alderfer, Erich Frohman, Michael McHale, Robert D. Richey; Assistant Professors William Acierno, Virginia Doerflinger, Janice Youse; Instructors Henry Strine.

Arts and Sciences major for the B.A. degree:

Speech 25.103, 206, 241, 325, 412; Speech 25.208 or 321; Elective: Twelve semester hours in Public Address courses 25.231, 285, 307, 418, 421, 492 or twelve semester hours in Theatre courses 25.211, 311, 318, 319, 411, 414, 415, 416, 490.  
Total, 36 semester hours.

## COURSES

(Code 25)

Courses marked † may be used toward General Education.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

**25.103 INTRODUCTION TO SPEECH † .....3 sem. hrs.**

A basic course in speech, with emphasis on interpersonal communication.

**25.105 COMMUNICATION THEORY AND RHETORIC † .....3 sem. hrs.**

Surveys classical rhetoric and contemporary theories in communication; includes behavioral science, semantics, and philosophy of language.

**25.206 ORAL INTERPRETATION OF LITERATURE † .....3 sem. hrs.**

Practice in skills necessary for intellectual and emotional meanings of poetry and prose read to an audience.

**25.208 INTRODUCTION TO THEATRE ARTS † .....3 sem. hrs.**

A survey: criticism, direction, play production, theatre history, stage design, and acting.

**25.211 THEATRE PRODUCTION † .....3 sem. hrs.**

Planning, executive and supervising production work and business procedures.

**25.218 DISCUSSION † .....3 sem. hrs.**

Survey of and practice in types and patterns of public discussion.

**25.231 INTRODUCTION TO RADIO AND TELEVISION † .....3 sem. hrs.**

A survey of communication practices in radio and television. Laboratories in classroom.

**25.241 VOICE AND DICTION † .....3 sem. hrs.**

A study of vocal organs and phonetics; practice for vocal effectiveness.

**25.285 PARLIAMENTARY LAW † .....3 sem. hrs.**

Parliamentary procedure and practice in its usage.

**25.307 BUSINESS AND PROFESSIONAL SPEECH † .....3 sem. hrs.**

Business and professional communication; policy conferences and interviewing.

**25.311 SCENE DESIGN †.....3 sem. hrs.**

Studies of design problems in various styles and periods; application of research and preparation of working drawings.  
*Prerequisite: Consent of Instructor.*

**25.312 FUNDAMENTALS OF ACTING †.....3 sem. hrs.**

Introduction to the theories and techniques of acting. Individual group exercises.

**25.318 CREATIVE DRAMATICS †.....3 sem. hrs.**

Improvisational techniques for the classroom for playmaking with children.

**25.319 CHILDREN'S THEATRE †.....3 sem. hrs.**

Theories, techniques and literature of theatre for children. Lab. hours.

**25.321 ARGUMENTATION †.....3 sem. hrs.**

Basic principles of argument. Practice through debate; written practice through a brief.

**25.325 EXTEMPORE SPEECH †.....3 sem. hrs.**

Platform speaking. Composition and delivery of extemporaneous speech.

**25.411 PLAY DIRECTION .....3 sem. hrs.**

Study of the principles and techniques of play direction, with demonstrations, exercises, and production.

**25.414 COSTUMING FOR THE STAGE.....3 sem. hrs.**

Historical developments and elements of design. Lab. hours.

**25.415 HISTORY OF THE THEATRE .....3 sem. hrs.**

Survey of structures, production practices, and plays from the beginnings to Ibsen.

**25.416 MODERN THEATRE.....3 sem. hrs.**

Practice and philosophy of theatre since Ibsen, with emphasis on American theatre.

**25.421 PERSUASION .....3 sem. hrs.**

Ethical and scientific approaches of human motivation. Principles and oral practice.

**25.490 SPEECH SEMINAR: THEATRE .....3 sem. hrs.**

A concentration may be offered on an individual artist, a period, or a movement in theatre.



**25.492 SPEECH SEMINAR: PUBLIC ADDRESS..... 3 sem. hrs.**

Investigation in depth of a speaker, a period, or a movement.

**PHILOSOPHY**

Professor William L. Carlough (Chairman); Associate Professor Seymour Schwimmer; Assistant Professors Richard J. Brook, Oliver J. Larmi.

Arts and Sciences Major for the B.A. degree:

Philosophy 43.302, 43.221, 43.230; Philosophy 43.314 or 43.315;  
18 semester hours elective.

**COURSES**

(Code 43)

Courses marked † may be used toward General Education.

**43.211 INTRODUCTION TO PHILOSOPHY †..... 3 sem. hrs.**

Reflective inquiry into selected problems of general philosophic interest. Some of these are types of knowledge, nature of reality, individual and social values, and existence of God.

**43.221 HISTORY OF ANCIENT PHILOSOPHY †..... 3 sem. hrs.**

A study of the origins of Western Philosophy in Ancient Greece. Plato's philosophical writings are examined in light of pre-Socratic speculation on the one hand and in terms of Aristotle's criticisms and developments on the other.

**43.230 HISTORY OF MODERN PHILOSOPHY †..... 3 sem. hrs.**

Examination of the beginnings of modern philosophy in the writings of 17th century Rationalists, 18th century Empiricists, and Kant. Topics include knowledge and scepticism, theory of abstractionism, mind-body problem, and problem of personal identity.

**43.301 ETHICS †..... 3 sem. hrs.**

Analysis of prominent theories: ethical relativism, hedonism, utilitarianism, duties, rights, justice; meaning and use of terms.

**43.302 LOGIC †..... 3 sem. hrs.**

Methods and principles of correct reasoning and their application in distinguishing correct from incorrect arguments. The syllogism of predicate calculus, quantification logic, and induction are examined.

**43.303 PHILOSOPHY OF SCIENCE †..... 3 sem. hrs.**

Analysis of the logic and inquiry in the natural and social sciences; the nature of scientific explanation, problems of causality, measurement, prediction, and verification.

**43.306 PHILOSOPHY OF RELIGION † .....3 sem. hrs.**

Critical analysis of the origins and nature of religious faith. Particular attention is given to types of religion, evidence supporting religious belief, and problems in and challenges to religion.

**43.309 WORLD RELIGIONS † .....3 sem. hrs.**

Study of the development of beliefs and practices of living religions. Includes Hinduism, Buddhism, Confucianism, Taoism, Shinto, Judaism, Christianity and Islam.

**43.314 EXISTENTIALISM AND PHENOMENOLOGY † .....3 sem. hrs.**

Consideration of writings of such men as Kierkegaard, Nietzsche, Husserl, Sartre, and Tillich. Major themes include of human subjectivity, human freedom, Alienation and meaning.

**43.315 CONTEMPORARY ANALYTIC PHILOSOPHY † .....3 sem. hrs.**

Examination of a 20th century philosophical movement concerned with logical analysis. Emphasis on analysts' reconstruction of the relation between language and philosophy, particularly theory of knowledge, ethics and religion.

**43.351 THEORY OF KNOWLEDGE † .....3 sem. hrs.**

Inquiry into the problem of knowledge, certainty and skepticism. The theory of perception is considered as well as the concepts of meaning and truth.

**43.402 CONTEMPORARY MORAL PROBLEMS † .....3 sem. hrs.**

Investigation of some of the major contemporary (and perennial) moral problems facing mankind: crime and its punishment; freedom, compulsion and limits; the problem of priorities; conflict and community of interests.

**43.431 PHILOSOPHY OF HISTORY .....3 sem. hrs.**

Philosophic issues of interest to the working historian, e.g., historical objectivity, historical explanation, history and the physical sciences, and the role of values in historical writing. The role of speculative philosophies of history in the writing of history.

*Prerequisite: 3 semester hours of philosophy or 9 semester hours of history.*

**43.470 INDEPENDENT STUDY .....3 sem. hrs.**

Individual study of a particular philosophical problem under the guidance of the staff. Emphasis upon independent research on topics selected by student and faculty.

*Prerequisite: 12 semester hours of philosophy and approval of the Department.*

## ART

Professor Percival R. Roberts III (Chairman); Associate Professor Kenneth T. Wilson; Assistant Professors Ronald J. Berchert, Roland F. Bower, Niranj an Goswami, Robert B. Koslosky, Barbara Strohman.

### Art and Sciences Major for B.A. Degree:

**Option I, Art History Concentration:** Art 31.315, 325, 335, 345, 365, 375, 415; 32.490.

**Option II, Studio Concentration:** Art 30.150; 32.250, 275, 300, 310, 320, 330; 12 semester hours in one of the following: Ceramics, Painting, Drawing, Sculpture, Weaving-Fabric Design.

## COURSES

### GENERAL — ART EDUCATION

(Code 30)

Courses marked † may be used toward General Education.

**30.101 INTRODUCTION TO ART † ..... 3 sem. hrs.**

Great works of art, past and present, with an analysis of the structure of art as determined by civilization, communication, and expression.

**30.150 ART COLLOQUY ..... 3 sem. hrs.**

A seminar type, orientation course specifically designed for the art major in the liberal arts curriculum.

**30.305 CHILDREN'S ART..... 3 sem. hrs.**

Art of children and ways to promote attitudes of discovery and invention, with emphasis on growth of expression.

**30.385 PHILOSOPHY AND PSYCHOLOGY OF ART..... 3 sem. hrs.**

A study of major philosophical points of view governing an understanding and criticism of the arts, past and present, together with 20th century readings in the psychology of art, the content and biology of artistic form.

**30.450 ART EDUCATION IN THE ELEMENTARY SCHOOL..... 3 sem. hrs.**

Theories and techniques behind the use of art in the elementary school.

### ART HISTORY

(Code 31)

**31.315 AMERICAN ART HISTORY †..... 3 sem. hrs.**

A detailed study of the history of the visual arts in America.



**31.325 HISTORY OF ARCHITECTURE † .....3 sem. hrs.**

A detailed study-survey of great architectural works of the past and present, including examples from both the East and West, with emphasis on sources for 19th and 20th century architectural design.

*Prerequisite: 30.101.*

**31.335 EUROPEAN ART HISTORY † .....3 sem. hrs.**

A detailed study of the history of the visual arts on the European continent from the Greek era to the nineteenth century.

**31.345 ORIENTAL ART HISTORY † .....3 sem. hrs.**

A detailed study of the history of the visual arts in Japan, China, India, and the countries of the Near East.

**31.355 HISTORY OF MODERN ART † .....3 sem. hrs.**

Contemporary movements in art from the nineteenth century to the present.

**31.365 RENAISSANCE ART .....3 sem. hrs.**

A specialized study of the art forms of Northern Europe and Italy from 1300 to 1700, utilizing illustrated lectures covering the areas of painting, sculpture, architecture, the minor arts, and related fine arts of literature and music of the period; readings, seminar reports, and standard scholarship and research tools.

**31.415 PRIMITIVE ARTS † .....3 sem. hrs.**

This course is also listed as Anthropology 46.410. Offered in cooperation with the Department of Sociology; includes a survey of graphic arts, literature, music and the dance of ancient and non-European cultures throughout the world, with slides, films, specimens, and recordings.

**31.375 INDEPENDENT STUDY IN ART HISTORY ..... 1-3 sem. hrs.**

Independent study involving research and scholarship in art history under the supervision of a faculty member and resulting in a scholarly contribution to the field and/or a published paper on a selected topic related to the student's research.



**31.495 (499) VISUAL AESTHETICS.....**

Seminar study of the "silent image" emphasizing artistic concern with environmental relationships, and theories of aesthetics and art criticism.

**STUDIO**

(Code 32)

Note: Studio courses meet 6 periods per week for 3 semester hours credit.

**32.250 DESIGN I † ..... 3 sem. hrs.**

An introduction to the basic principles of design and the organization of the visual elements, involving both two and three dimensional problems, lettering, and layout.

**32.251 DESIGN II ..... 3 sem. hrs.**

Continued experimentation with and exploration of various design problems at the intermediate level, color theory, and application in both two and three dimensional problems.

*Prerequisite: Art 250.*

**32.252 DESIGN III..... 3 sem. hrs.**

Advanced design problems will be undertaken stressing individualized productions, and what will become future involvement and individual expression through design.

*Prerequisite: Design 251.*

**32.275 GENERAL CRAFTS † ..... 3 sem. hrs.**

A broadly conceived program structured to introduce the art student to a varied program of crafts methods, tools, materials and techniques, which will serve as a basis for selection of more specialized electives.

**32.300 CERAMICS I † ..... 3 sem. hrs.**

Introduction to ceramic processes and design.

**32.301 CERAMICS II ..... 3 sem. hrs.**

Emphasis upon quality ceramic design, throwing on the wheel, experiments in decorative processes and mixing clays and glazes.

*Prerequisite: 32.300.*

**32.302 CERAMICS III.....**

Advanced work planned for individual needs.

*Prerequisite: 32.301.*

**32.310 DRAWING I † ..... 3 sem. hrs.**

The course will consist of a basic analysis and understanding of form, structure, and personal expression in drawing.

**32.311 DRAWING II.....3 sem. hrs.**

The course will emphasize experimentation with various media as well as development in composition and individuality in drawing.

*Prerequisite: 32.310.*

**32.312 DRAWING III.....3 sem. hrs.**

The course will develop individual creativity and ability in drawing, stressing what will become future personal involvement in art.

*Prerequisite: 32.311.*

**32.320 FABRIC DESIGN I †.....3 sem. hrs.**

An introductory course in fabrics and textile decoration, block printing, silk screen printing and dyeing of fabrics, including the nature of fabrics.

*Prerequisite: Design I.*

**32.321 FABRIC DESIGN II .....3 sem. hrs.**

Resistive techniques in the dyeing of fabrics both natural and synthetic, batik and starch.

*Prerequisite: 32.320.*

**32.322 FABRIC DESIGN III .....3 sem. hrs.**

An exploration of fabric decoration techniques, including applique, embroidery and special processes in silk screen printing; the canning and quilting of fabrics.

*Prerequisite: 32.321.*

**32.330 PAINTING I † .....3 sem. hrs.**

Introduction to form, color, and composition through studio experience.

**32.331 PAINTING II .....3 sem. hrs.**

Continued sensitive development toward a maturing style in painting.

*Prerequisite: 32.330.*

**32.332 PAINTING III.....3 sem. hrs.**

Advanced work planned for individual needs and use of a constant style.

*Prerequisite: 32.331.*

**32.340 SCULPTURE I †.....3 sem. hrs.**

Studio exploration of three-dimensional expression.

**32.341 SCULPTURE II .....3 sem. hrs.**

Continued sensitive development toward a maturing style in sculpture.

*Prerequisite: 32.340.*

**32.342 SCULPTURE III.....3 sem. hrs.**

Advanced work planned for individual needs.

*Prerequisite: 32.341.*

**32.350 WEAVING I †.....3 sem. hrs.**

An introduction to weaving, including hand weaving, off the loom, sample warps, woven forms and wall hangings.

*Prerequisite: 32.250.*

**32.351 WEAVING II .....3 sem. hrs.**

Continued experiences in weaving techniques, including rug and tapestry, rya and flossa, and the dyeing of yarns.

*Prerequisite: 32.350.*

**32.352 WEAVING III.....3 sem. hrs.**

Advanced weaving processes and techniques with double weaving, experimental warps, and wall hangings of flat sculptural forms.

*Prerequisite: 32.351.*

**32.360-361 GRAPHICS I AND II\* † .....6 sem. hrs.**

Creative experiences in printmaking and an exploration of the graphic art processes of wood block and linoleum printing, wood engraving, etching, intaglio, agua and messotint, lithography, and serigraphy.

**32.370 ENAMELLING\* † .....3 sem. hrs.**

Enamelling on metals, exploring the multifaceted applications in jewelry and sculpture and wall plaques and investigating the basic processes such as cloisonne, plique-a-jour, inlay, basse-taille, etc.

**32.380 JEWELRY MAKING\* † .....3 sem. hrs.**

A study of jewelry forms past and present from standpoint of both utility and design. Problems in wood and metals, ceramics, glass, and plastics, exploring contemporary jewelry forms and processes.

† may be used toward the general education requirement.

\* Courses offered every other year or as sufficient student enrollments are obtained.

**32.390 SERIGRAPHY\* †.....3 sem. hrs.**

Personal expression in the silk screen processes including the traditional methods of tusche, glue, stencil and the experimental.

*Prerequisite: Art 250; or Art 360.*

**32.395 MEDIA .....3 sem. hrs.**

Exploratory experiences in sensory-aesthetic-perceptual problems in the plastic arts, individual as well as participatory, without emphasis on the finished product, to heighten the student's awareness and sensitivity to as wide a range of materials as possible, as well as innovative uses and applications of certain selected media.

**32.400 FIGURE STUDY\*\* .....3 sem. hrs.**

A study of the theory and practice of depicting the human figure in a variety of media, both male and female, draped and undraped, from still and action poses, singly and in groups, including analysis of outstanding figurative works of the past and present.

*Prerequisite: 310, 311, 330, 340, 341; or consent of the instructor and the department chairman.*

\*Courses offered every other year or as sufficient student enrollments are obtained.

\*\* Note: The figure may also be incorporated in other advanced studio areas as well at the discretion of the instructor.

**32.475 SPECIAL PROBLEMS IN ART ..... 1-3 sem. hrs.**

Emphasis on specialized, individualized independent study in studio areas. Amount of course credit awarded determined by instructor and written proposal of student with the consent of the department chairman on the basis of substance and depth of project to be undertaken.

*Prerequisite would be satisfactory completion of three levels of studio area or its equivalent.*

**32.490 ART GALLERY\* † .....3 sem. hrs.**

A study of works by classical and contemporary masters first hand in four to six major museums in New York, Pennsylvania, and Washington, D.C. with emphasis on technique, visual concepts, relative proportions, aesthetics and historical context in both 2-d and 3-d forms and study of the role of the art museum culturally and educationally. Visits to selected galleries in Philadelphia, New York City, Washington D.C., and Harrisburg will be followed up with in-depth study on campus together with special problems assigned in conjunction with the college art gallery arranged by its director.

\* Courses offered every other year or as sufficient student enrollments are obtained.

**MUSIC**

Associate Professors William K. Decker (Chairman), Jack S. Bemis, Sylvia H. Cronin, Nelson A. Miller; Assistant Professors Richard J. Stanislaw, Stephen C. Wallace.

Courses marked (†) may be applied toward the General Education requirement.

**COURSES**

(Code 35)

**35.101 INTRODUCTION TO MUSIC.....3 sem. hrs.**

An approach to music listening through basic vocal and instrumental study. Analysis of varied masterpieces, composers, musical forms, and styles. No previous musical experience necessary.



**35.102 SURVEY OF MUSIC.....3 sem. hrs.**

Comparable in approach to 35.101, but designed for students who have had pre-college study in a musical instrument or voice; analyses are more detailed than in the above course.

**35.131 THEORY I †.....3 sem. hrs.**

Harmony, including tonic, subdominant, and dominant chords. Sight-singing and keyboard harmonizations. Four hours per week.

**35.132 THEORY II †.....3 sem. hrs.**

Continuation of Theory I, including study of supertonic, submediant, and mediant chords, and common-chord and chromatic modulation, Melodic and harmonic dictation, sight-singing, and keyboard training. Four hours per week.

*Prerequisite: 35.131.*

**35.151 (171) ORGAN I..... 1 sem. hr.**

Private lessons for students who have previously studied organ or who have strong piano backgrounds. Pedal and manual technique; simple three staff compositions. Number of students limited to available faculty. One half hour lesson per week.

**35.152 (172) ORGAN II..... 1 sem. hr.**

Continuation of Organ I. Technical development, hymn playing, registration; broadening of repertoire. Number of students limited to available faculty. One half hour lesson per week.

*Prerequisite: 35.151.*

**35.153 (173) ORGAN III..... 1 sem. hr.**

Continuation of Organ II with aim of mastery of hand and feet and broadening of repertoire to include compositions of the difficulty of the Bach Orgelbucklein. Number of students limited to available faculty. One half hour lesson per week.

*Prerequisite: 35.152.*

**35.161 (171) BRASS I..... 1 sem. hr.**

Private lessons for students who have previously studied trumpet, French horn, trombone or bass. Number of students limited to available faculty. One half hour lesson per week.

**35.162 (172) BRASS II..... 1 sem. hr.**

Continuation of private instruction in the instrument studied in 31.161. Technical development stressed. Number of students limited to available faculty. One half hour lesson per week.

*Prerequisite: 35.161.*

**35.163 (173) BRASS III..... 1 sem. hr.**

Continuation of private instruction in the instrument studied in

31.162. Technical development stressed; appropriate solo literature. Number of students limited to available faculty. One half hour lesson per week.

*Prerequisite: 35.162.*

**35.171 VOICE I..... 1 sem. hr.**

Private lessons for students with demonstrated vocal ability. Basic vocal techniques; art songs. Number of students limited to available faculty. One half hour lesson per week.

**35.172 VOICE II ..... 1 sem. hr.**

Continuation of private instruction stressing vocal technique and art songs in original language. Number of students limited to available faculty. One half hour lesson per week.

*Prerequisite: 35.171.*

**35.173 VOICE III..... 1 sem. hr.**

Continuation of private instruction including operatic and contemporary repertoire. Number of students limited to available faculty. One half hour lesson per week.

*Prerequisite: 35.172.*

**35.181 (171) PIANO I..... 1 sem. hr.**

Private lessons for students who have had pre-college piano study. Music such as the Bach Two-Part Inventions and the Mozart Sonatas. Number of students limited to available faculty. One half hour lesson per week.

**35.182 (172) PIANO II..... 1 sem. hr.**

Continuation of private instruction stressing technical development and literature appropriate to the broadening of the student's repertoire. Number of students limited to available faculty. One half-hour lesson per week.

*Prerequisite: 35.181.*

**35.183 (173) PIANO III ..... 1 sem. hr.**

Continuation of private instruction in technique and all styles of piano literature. Number of students limited to available faculty. One half-hour lesson per week.

*Prerequisite: 35.182.*

**35.191 (171) WOODWIND I..... 1 sem. hr.**

Private lessons for students who have had pre-college study in oboe, flute, clarinet, bassoon, or saxophone. Number of students limited to available faculty. One half-hour lesson per week.

**35.192 (172) WOODWIND II ..... 1 sem. hr.**

Continuation of private instruction in the instrument studied in 35.191. Technical development stressed. One half-hour lesson per week. Number of students limited to available faculty.

*Prerequisite: 35.191.*

**35.193 (173) WOODWIND III ..... 1 sem. hr.**

Continuation of private instruction in the instrument studied in 35.191. Technical development; appropriate solo literature. Number of students limited to available faculty. One half-hour lesson per week.

*Prerequisite: 35.192.*

**35.221 (121) HISTORY OF MUSIC † ..... 3 sem. hrs.**

Music from antiquity to the present day; active listening; development of a technical vocabulary.

**35.222 (322) MUSIC OF THE ROMANTIC ERA † ..... 3 sem. hrs.**

Nineteenth century European music; composers; relationship of music to the culture of the time.

*Prerequisite: 35.101.*

**35.241 CLASS PIANO † ..... 3 sem. hrs.**

Group piano instruction for the beginner. Emphasis on creating and playing accompaniments for songs, and sight reading. Four hours per week.

**35.251 AESTHETICS AND MUSIC CRITICISM † ..... 3 sem. hrs.**

Comparison of music objectives and philosophies of schools, eras, and individual composers. Principles of criticism that apply to music and its performance.

**35.311 MUSIC IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.**

Designed to provide prospective elementary school teachers with the skills, understanding, and attitudes which will help them to function effectively in the area of music in the self-contained classroom.

*Prerequisite: juniors and seniors only.*

**35.323 TWENTIETH CENTURY MUSIC ..... 3 sem. hrs.**

Compositions by composers from Debussy to the present; listening and analysis of representative works.

*Prerequisite: 35.101 or 35.102.*

**35.324 AMERICAN MUSIC ..... 3 sem. hrs.**

Analysis of works of selected American composers with reference to characteristics indigenous to American music.

*Prerequisite: 35.101.*

**35.325 OPERA AND MUSIC THEATRE ..... 3 sem. hrs.**

Great works of the lyric stage. Listening and readings concerning opera, operetta, and the popular theatre.

*Prerequisite: 35.101 or 35.102.*

**35.326 MUSIC OF THE BAROQUE PERIOD ..... 3 sem. hrs.**

Important forms of the Baroque era as presented in the works of Monteverdi, Bach, Handel, Vivaldi and their contemporaries.

*Prerequisite: 35.101 or 35.102.*

**35.341 CHORAL TECHNIQUES †..... 3 sem. hrs.**

Development of techniques and abilities for participating in and supervising choral ensembles. Tone production, proper breathing, conducting, and appropriate literature.

**35.412 LITERATURE AND MATERIALS OF CHILDREN'S MUSIC ..... 3 sem. hrs.**

Designed to provide elementary education students with a broad knowledge of the music program in the elementary grades. Review of basic texts, recordings, filmstrips, films; development of a repertoire of songs and rhythmic activities.

*Prerequisite: 35.311.*

**35.421 THE CLASSICAL SONATA FORM ..... 3 sem. hrs.**

Symphony, sonata, and chamber music from the Classical period with emphasis on the sonata form of the late 18th century. Key schemes, thematic development, and harmonic vocabulary.

*Prerequisite: 35.101 or 102, 131, 132.*

## **GROUP II: SOCIAL SCIENCES AND HISTORY**

### **ECONOMICS**

Professors T. S. Saini (Chairman), U. S. Bawa; Associate Professors, Robert Ross, Philip Siegel; Assistant Professors D. K. Bhatia, Barbara Dilworth.

Arts and Sciences Majors for the B.A. and B.S. degrees:

Economics 40.211, 212, 311, 312, 346; and one of the options I, II, or III.

Option I, B.A. degree, intended for general study of economics: One course from Economics 40.315, 423, 434, 424; one course from 40.313, 316, 317, 422; one course from Sociology 45.466, Economics 40.470, 490; one course from Geography 41.221, Psychology 48.351, Philosophy 28.301, Biology 50.351, Political Science 44.336, Sociology 45.316, History 42.378, 471, 472; fifteen semester hours elective in economics.

Option II, B.S. degree, intended for the student who is interested in analytical study of economics related to business: Business 91.221, 222; 93.343, 344, 345; twelve semester hours elective in economics.



**Option III**, B.A. degree, intended for the student whose interest is in Political Economy and who hopes to enter a career in some aspect of international relations or trade: Political Science 44.161, 336; Economics 40.460; twelve semester hours elective in economics; six semester hours elective in political science. (The following pairs of courses in economics and political science are recommended as especially pertinent to the purposes of Option III: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.383; 40.316 with 44.313; 40.312 with 44.336; 40.415 with 44.326.)

Electives in economics, business and political science in any of the options require the adviser's approval.

Study of a foreign language is recommended for any of the options.

## COURSES

(Code 40)

Courses marked † may be used toward General Education.

**40.211 PRINCIPLES OF ECONOMICS I †.....3 sem. hrs.**

The nature of economics; economic concepts and institutions; introduction to supply and demand and the price system; national income; employment and fiscal policy; monetary policy and economic stability and growth.

**40.212 PRINCIPLES OF ECONOMICS II †.....3 sem. hrs.**

The economics of resource allocation; price and output determination; current domestic economic problems; international economics and economic problems of newly developing countries.

*Prerequisite: 40.211.*

**40.246 BUSINESS AND ECONOMICS MATHEMATICS †.....3 sem. hrs.**

Introduction to the basic mathematical tools most frequently employed in intermediate economics and business, e.g. elementary and matrix algebra, analytical geometry, functions, differential and integral calculus, difference and differential equations, and linear programming.

**40.311 INTERMEDIATE MICRO-THEORY AND  
MANAGERIAL ECONOMICS.....3 sem. hrs.**

Theory of how a competitive market system determines the composition of output, allocation of resources, and distribution of income; comparison of theoretical and actual behavior of competitive, monopolistic and oligopolistic firms; general equilibrium and welfare economics. Modern theories of business decision making and actual business practices.

*Prerequisite: 40.212.*

**40.312 INTERMEDIATE MACRO-ECONOMIC THEORY .....3 sem. hrs.**

Theory of determination of G.N.P., employment, and price level.

Federal, state and local fiscal policy in the light of modern theory; principles of taxation and government spending; management of the national debt.

*Prerequisite: 40.212.*

**40.313 LABOR ECONOMICS ..... 3 sem. hrs.**

Practical questions in our modern industrial organization in the fields of management and labor unions; the economic life of members of the working force. The history of organized labor and the growth of theories in management; current policies in the national and state governments to control industrial relations.

*Prerequisite: 40.212.*

**40.315 BUSINESS AND GOVERNMENT ..... 3 sem. hrs.**

A survey of government policies for maintaining competition, for substituting regulation in place of competition and for substituting public for private enterprise; tests of various government policies in the light of economic theory and historical experience.

*Prerequisite: 40.212.*

**40.316 URBAN ECONOMICS ..... 3 sem. hrs.**

The application of economic theory and recent empirical findings to urban resource use. Problems analyzed include employment, housing, education, transportation, pollution and minorities.

*Prerequisite: 40.212.*

**40.317 POPULATION AND RESOURCE PROBLEMS ..... 3 sem. hrs.**

Classical theories of population growth, recent economic models of population correlating natural resources, capital accumulation, technological change. Population problems in North American, European and developing countries. Recent trends in birth and death rates as factors in population growth. Study of measurement of population and labor force, their distribution by age, sex, occupation, regions; techniques for projecting population levels.

*Prerequisite: 40.212.*

**40.346 BUSINESS AND ECONOMICS STATISTICS I ..... 3 sem. hrs.**

Descriptive statistics, averages, dispersion, elements of probability, index numbers, time series, introduction to regression and correlation analysis, theory of estimation and testing of hypothesis as applied to business and economic problems.

*Prerequisite: 40.212.*

**40.400 INTRODUCTION TO ECONOMETRICS ..... 3 sem. hrs.**

The application of modern statistical methods to economic problems; time series and cross-sectional analysis of measurements of demand and costs; macro-economic models; income distribution and growth model.

*Prerequisite: 40.212.*

**40.410 PUBLIC FINANCE.....3 sem. hrs.**

Analysis of revenues and expenditures of local, state and national government in light of micro- and macro-theory; criteria and models of government services; subsidies etc.; principles of taxation, public borrowing and public debt management; impact of fiscal and budgetary policy on resource and income allocation, internal price and employment stability; the rate of growth and world economy.

*Prerequisite: 40.212.*

**40.413 MONEY AND BANKING.....3 sem. hrs.**

The historical background and development of monetary practices and principles of banking, with special attention to commercial banking and credit regulations, and current monetary and banking development.

*Prerequisite: 40.212.*

**40.422 CONTRASTING ECONOMIES .....3 sem. hrs.**

Theories of capitalism and socialism with special emphasis on Marxian theory. Comparison of theoretical and actual performance of capitalism, socialism and communism.

*Prerequisite: 40.212.*

**40.423 HISTORY OF ECONOMIC THOUGHT.....3 sem. hrs.**

Survey of economic theories propounded in the past and their effect on present day thinking about economic, business and political systems. The surplus value theory; economic planning as a part of government responsibility; relation of family budgets to Engel's Law; government responsibility for employment and rent control.

*Prerequisite: 40.212.*

**40.424 ECONOMIC HISTORY OF THE WESTERN WORLD..3 sem. hrs.**

Comparative analysis of the economic theory of Europe and the United States, with particular attention to the interplay of changes in business, financial and labor institutions, products and production, adaptations to resource differences, and conflicting economic doctrines.

*Prerequisite: 40.212.*

**40.433 INTERNATIONAL ECONOMICS .....3 sem. hrs.**

Theory of international trade. Gains from trade, free trade, and protection; balance of payments; foreign exchange and capital movements; the dollar and the international monetary system and international liquidity shortage.

*Prerequisite: 40.212.*

**40.434 ECONOMIC GROWTH OF UNDERDEVELOPED AREAS.....3 sem. hrs.**

A study of stagnating economies: theories of underdevelopment; operative resistances to economic growth; role of capital, labor, population growth, and technological advance; development planning and trade in development setting.

*Prerequisite: 40.212.*

**40.446 BUSINESS AND ECONOMICS STATISTICS II .....3 sem. hrs.**

Sampling and sampling distributions; probability; tests of hypothesis; decision making; simple correlation analysis; contingency tables; analysis of variance; computer applications; designs of experiments.  
*Prerequisite: 40.212, 40.346.*

**40.460 ADVANCED POLITICAL ECONOMY .....3 sem. hrs.**

Application of economic and political models of social-decision making to historical problems from local through international levels; evaluation of market, political and mixed techniques in particular areas from the 18th through the 20th centuries.  
*Prerequisite: 40.212.*

**40.470 SENIOR SEMINAR .....3 sem. hrs.**

Discussion of current literature on economic theory and economic policy. Each student reads one journal article a week on which he writes a report and makes a seminar presentation.  
*Prerequisite: Senior standing or permission of the instructor.*

**40.490 INDEPENDENT STUDY ..... credit to be arranged  
with the department**

Open only to the final semester seniors. Topic and outline must be approved by the department during the preceding semester of residence.

**45.466 RESEARCH METHODS IN THE SOCIAL SCIENCES.3 sem. hrs.**

This course is offered in the department of sociology and described with the sociology courses.  
*Prerequisite for students of economics: 40.346 and permission of Economics Department.*

## **GEOGRAPHY AND EARTH SCIENCE**

Professors Wendelin R. Frantz (Chairman), Bruce E. Adams, John A. Enman, William B. Sterling; Associate Professors Lee C. Hopple, Lavere W. McClure; Assistant Professors Mark A. Hornberger, Brian A. Johnson, James R. Lauffer, James T. Lorelli, John Serff, Jr.; Instructor Joseph R. Pifer.

Arts and Science major in Geography for the B.A. degree:

41.101, 41.102, 41.493; at least 21 semester hours elective credit in geography and earth science with at least one course from each of four areas: Systematic Physical, 41.253, 41.256, 51.101, 51.255, 51.259; Human Geography, 41.213, 41.221, 41.258, 41.310, 41.324, 41.463; Regional, 41.321, 41.333, 41.343, 41.345, 41.346; Techniques, 41.354, 41.462.

## **COURSES**

### **GEOGRAPHY**

(Code 41)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.



Courses marked † may be applied toward general education requirements. Any other courses may also be applied provided one of these has been taken.

**41.101 WORLD PHYSICAL GEOGRAPHY † .....3 sem. hrs.**

Earth-sun relationships, land masses, oceans, landforms, weather and climate, and natural resources as elements and controls related to the adjustments man makes to his environment.

**41.102 WORLD CULTURAL GEOGRAPHY † .....3 sem. hrs.**

Designed to show the relationship of man, land, culture and economic activities.

**41.125 (225) WEATHER AND CLIMATE .....3 sem. hrs.**

A study of the interrelationships between the elements of weather and climate; the functional application of these elements is elaborated upon through a study of climatic realms.

**41.213 (323) POLITICAL GEOGRAPHY**

An analysis of physical, human, and economic factors which influence the changing pattern of the political map of the world.

**41.221 (121) ECONOMIC GEOGRAPHY .....3 sem. hrs.**

A study of the economic regions of the world and their relationship to current world economic problems.

**41.253 (353) PHYSIOGRAPHY .....3 sem. hrs.**

The study of the dynamic, tectonic, and gradational forces, which, in conjunction with climatic and biologic forces, have shaped the earth into its present form and continuously refashion and modify it.

**41.256 (356) CLIMATOLOGY.....3 sem. hrs.**

An analysis of climate (temperature, moisture, pressure, wind, air masses and storms) and the world-wide distribution of climates.

**41.258 (358) CONSERVATION OF NATURAL RESOURCES.....3 sem. hrs.**

The importance of vital resources to economy and to human existence with emphasis upon this country; conservation of soils, forests, grasslands, water, minerals, air, and human resources.

**41.310 POPULATION GEOGRAPHY .....3 sem. hrs.**

A quantitative analysis of demographic data and qualitative examination of population characteristics.

**41.321 (223) GEOGRAPHY OF ANGLO-AMERICA.....3 sem. hrs.**

Physical setting, present inhabitants, occupations, resources, present use of resources, and future outlook for U.S. and Canada.

- 41.324 (224) GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY ..... 3 sem. hrs.**  
 Relationship between the historical movements and the natural environment in the United States.  
*Prerequisite: 42.203.*
- 41.333 (233) GEOGRAPHY OF EUROPE ..... 3 sem. hrs.**  
 Europe's physical characteristics, topography, transportation systems, resources, population, and trade.
- 41.343 (243) GEOGRAPHY OF ASIA ..... 3 sem. hrs.**  
 Physical characteristics of Asia and its social, cultural, and economic aspects.
- 41.344 (244) GEOGRAPHY OF LATIN AMERICA ..... 3 sem. hrs.**  
 Human and physical factors of the geographic environment of South America, Central America and the islands of the Caribbean Sea.
- 41.345 (245) GEOGRAPHY OF AFRICA..... 3 sem. hrs.**  
 Physical geographic elements as they relate to agriculture, grazing, mining, manufacturing, transportation, communication, and political boundaries of the continent.
- 41.346 (246) GEOGRAPHY OF THE SOVIET REALM..... 3 sem. hrs.**  
 Physical and human geography of the Soviet Union with some emphasis upon the relationship between that country and the so-called "satellite" nations.
- 41.354 CARTOGRAPHY ..... 3 sem. hrs.**  
 Use, construction, and interpretation of maps, models, globes, charts, and geographic diagrams.
- 41.462 THEORETICAL AND QUANTITATIVE GEOGRAPHY ..... 3 sem. hrs.**  
 Conceptual frameworks, theoretical developments, methods of measuring intensity and dispersion of geographical distributions, and quantitative approaches in geographical analyses.
- 41.463 (363) URBAN GEOGRAPHY..... 3 sem. hrs.**  
 Designed to provide a conceptual and methodological framework in which to view the process of urbanization.
- 41.475 SPECIAL PROBLEMS IN GEOGRAPHY ..... 1-3 sem. hrs.**  
 Independent, investigative research oriented to studies of specific geographical problems.  
*Prerequisite: for Junior and Senior Geography majors.*

**41.492 GEOGRAPHY SEMINAR.....3 sem. hrs.**

Student pursues in depth topics and problems involving the literature, techniques, and practical application of Geography.  
*Prerequisite: 21 semester hours in Geography.*

**For courses in Earth and Space Science see Code 51.**

## HISTORY

Professors Robert D. Warren (Chairman), Hans K. Gunther, Ralph S. Herre, Craig A. Newton, John J. Serff, Sr.; Associate Professors Richard G. Anderson, John C. Dietrich, H. Benjamin Powell, James P. Rodechko, Ralph W. Sell, Ralph Smiley, James R. Sperry, Anthony J. Sylvester, George A. Turner, James R. Whitmer, John B. Williman; Assistant Professors Arthur Lysiak, Theodore Shanoski; Instructors James H. Neiswender.

**Arts and Sciences major for the B.A. degree:**

History 42.398; 21 semester hours elective in courses in history including at least 15 semester hours numbered above 300.

## COURSES

(Code 42)

Courses marked † may be used toward General Education.

**42.111 WORLD HISTORY TO 1500 †.....3 sem. hrs.**

Survey of the development of man and his culture throughout the world from earliest times to 1500.

**42.112 WORLD HISTORY, 1500 to 1815 † .....3 sem. hrs.**

Political, social, economic and cultural forces in the Western and non-Western world, 1500 to 1815.

**42.113 WORLD HISTORY SINCE 1815 † .....3 sem. hrs.**

Political, social, economic and cultural forces since the Napoleonic period with emphasis upon increasing importance of the non-Western world in the development of the modern world.

**42.203 UNITED STATES HISTORY SURVEY:  
CONSTITUTION TO WORLD WAR I † .....3 sem. hrs.**

Major movements of American history from the formation of the constitution to World War I with emphasis on the evolution of political and economic institutions and other cultural aspects of American society.

**42.204 UNITED STATES HISTORY SURVEY: WORLD WAR I  
TO THE PRESENT † .....3 sem. hrs.**

Analyzes complexities of American history in the twentieth century: the two world wars; depression; Korean War; Civil Rights movement; Viet Nam; atomic power; the Cold War; emerging nations and American society.

**42.208 CONTEMPORARY ISSUES IN UNITED STATES**

**HISTORY † .....3 sem. hrs.**

Study of issues such as the black American, dissent, urban America, the role of the military and labor, the United States as a global power. *History 42.204 and 42.208 may not both be taken for credit.*

**42.312 CLASSICAL WORLD .....3 sem. hrs.**

The ancient world from the ancient Near East to the fall of the Roman Empire in the West, with an intensive emphasis upon Greece, Rome, the rise of Christianity, and their influence on Western European civilization.

*Prerequisite: 6 sem. hrs. of history.*

**42.314 MEDIEVAL EUROPE .....3 sem. hrs.**

Study of the peoples and countries which emerged following the fall of the Roman Empire in the West; critical analysis of feudalism and manorialism; development of Western institutions and of the church and temporal authorities to the late 14th century.

*Prerequisite: 6 sem. hrs. of history.*

**42.318 ENGLAND TO 1688 .....3 sem. hrs.**

Political, economic, social, and cultural life in England to the Glorious Revolution.

*Prerequisite: 6 sem. hrs. of history.*

**42.319 ENGLAND SINCE 1688.....3 sem. hrs.**

Political, social, economic, and cultural development in England from the Glorious Revolution to the present with emphasis upon the development of democracy, the Industrial Revolutions, and the growth and decline of the British Empire.

*Prerequisite: 6 sem. hrs. of history.*

**42.322 RENAISSANCE AND REFORMATION ERAS.....3 sem. hrs.**

Political, social, economic, literary, artistic, and intellectual developments from ca. 1300 in Italy and including the spread of the Renaissance throughout Europe; also a critical study of the Protestant and Catholic reformations in relation to the political, economic, social, and cultural developments in Western Europe in the 16th and 17th centuries.

*Prerequisite: 6 sem. hrs. of history.*

**42.323 EUROPEAN IMPERIALISM .....3 sem. hrs.**

A survey of the rise, course and decline of European penetration of the non-western world from the 16th century to the present; motivations, types and patterns of European colonial activity; the process of decolonization and its impact on world history.

*Prerequisite: 6 hrs. of history.*



**42.324 THE AGE OF ABSOLUTISM, 1600-1789 .....3 sem. hrs.**

Rise of the modern nation states, the growth of absolutist power in Eastern and Western Europe, and the colonial wars between the major Western powers.

*Prerequisite: 6 sem. hrs. of history.*

**42.327 EUROPE 1789 - 1850: THE AGE OF REVOLUTION. 3 sem. hrs.**

The Revolutionary Age beginning with the French Revolution: The Napoleonic Era; restoration and reaction; the rise of 19th century nationalism; the reforms and revolts of the 1830's and 1840's; the Industrial Revolution; the rise of democracy and totalitarianism; romanticism and realism.

*Prerequisite: 6 hrs. of history.*

**42.328 EUROPE 1850 - 1914: THE AGE OF NATIONALISM AND IMPERIALISM.....3 sem. hrs.**

A study of the later Industrial Revolution and the age of technology, and the new doctrines of materialism, socialism, and imperialism: the unification of Germany and Italy; the Second Empire in France; the growth of liberalism in England and Russia; rise of East European Nationalism; French, German, and British home policies.

*Prerequisite: 6 hrs. of history.*

**42.346 (428) INTELLECTUAL HISTORY OF EUROPE SINCE THE ENLIGHTENMENT.....3 sem. hrs.**

Changes in currents of thought during the period are related to political, economic, and social developments. Special attention given to various interpretations of major intellectual movements.

*Prerequisite: 6 sem. hrs. of history.*

**42.348 CONTEMPORARY EUROPE CULTURE TOUR .....6 sem. hrs.**

Professionally guided study tour of Western Europe, usually scheduled each summer. Research paper required.

**42.352 LATIN AMERICA SINCE 1820 .....3 sem. hrs.**

After brief summary of course and results of the revolutionary era, attention is devoted to the economic, social, and political development of individual nations.

*Prerequisite: 6 sem. hrs. of history.*

**42.354 THE MODERN FAR EAST .....3 sem. hrs.**

Eastern Asiatic civilizations with emphasis upon cultural change and political response in consequence of European expansion and the spread of nationalism.

*Prerequisite: 6 sem. hrs. of history.*

**42.356 RUSSIA TO 1917.....3 sem. hrs.**

Survey of Russia from the beginning of the Russian State in the ninth century through the Kievan, Muscovite, and Imperial periods to the

Bolshevik Revolution of 1917.  
*Prerequisite: 6 sem. hrs. of history.*

**42.357 (452) SOVIET RUSSIA.....3 sem. hrs.**

Critical analysis of the political, social, economical, and cultural evolution of the Soviet Union, and a study of Soviet foreign policy and international relations.  
*Prerequisite: 6 sem. hrs. of history.*

**42.358 MODERN AFRICA .....3 sem. hrs.**

Surveys the transformation of the societies of Sub-Sahara Africa from colonialism to national independence.  
*Prerequisite: 6 sem. hrs. of history.*

**42.362 THE NEAR AND MIDDLE EAST SINCE 1800 .....3 sem. hrs.**

Beginning with the gradual dismemberment of the Ottoman Empire and the extension of European interests in the nineteenth century, surveys the West's continuing involvement in the area and the rise of nationalism.  
*Prerequisite: 6 sem. hrs. of history.*

**42.371 AFRO-AMERICAN IN UNITED STATES HISTORY ..3 sem. hrs.**

Afro-American background in Africa; the travail of slavery; release from bondage; accomodation and protest; the black revolution; the significance and influence of the Afro-American in United States History.  
*Prerequisite: 6 sem. hrs. of history.*

**42.372 COLONIAL PERIOD OF AMERICA TO 1783.....3 sem. hrs.**

European colonization in the New World with attention to the establishment and development of England's thirteen colonies and emphasis upon the problems which produced conflict between the colonies and the British Empire resulting in the American Revolution.  
*Prerequisite: 6 sem. hrs. of history.*

**42.374 EARLY NATIONAL PERIOD OF THE UNITED STATES.....3 sem. hrs.**

Major periods — Confederation, Federalist, and Jeffersonian administrations, War of 1812, Era of Good Feelings — analyzed as to their contributions to the establishment of the United States from 1783 to 1828.  
*Prerequisite: 6 sem. hrs. of history.*

**42.376 AMERICAN EXPANSION AND DISUNION, 1828 - 1865.....3 sem. hrs.**

Jacksonian Democracy, Manifest Destiny, and the Mexican War; the issue of slavery and expansion, and the Civil War.  
*Prerequisite: 6 sem. hrs. of history.*

**42.378 EMERGENCY OF INDUSTRIAL AMERICA, 1865-1898.....3 sem. hrs.**

Economic, social, cultural, and political problems inherent in the

transformation of the United States from an agrarian nation into a modern industrial world power.

*Prerequisite: 6 sem. hrs. of history.*

**42.382 EARLY TWENTIETH CENTURY UNITED STATES,  
1898 - 1932 ..... 3 sem. hrs.**

Domestic and international issues concerning the United States from the Spanish-American War to the Great Depression: the Progressive Era and its contributions; the role of the United States as a world power; World War I and the League of Nations; expansion of the American economy; the tensions of the 1920's.

*Prerequisite: 6 sem. hrs. of history.*

**42.384 CONTEMPORARY UNITED STATES,  
1932 TO THE PRESENT ..... 3 sem. hrs.**

The Great Depression; entry into World War II; problems of the cold war; domestic issues from the Truman Presidency to the present. Varying interpretations of the era examined to understand conflicting views of the present.

*Prerequisite: 6 sem. hrs. of history.*

**42.388 PENNSYLVANIA ..... 3 sem. hrs.**

Major contributions of Pennsylvania to national life; relations between state and national movements.

*Prerequisite: 6 sem. hrs. of history.*

**42.391 DIPLOMATIC HISTORY OF THE  
UNITED STATES TO 1898 ..... 3 sem. hrs.**

A critical analysis of United States foreign relations from the Colonial period to the 1898 war with Spain.

*Prerequisite: 6 sem. hrs. of history.*

**42.392 DIPLOMATIC HISTORY OF THE  
UNITED STATES SINCE 1898 ..... 3 sem. hrs.**

A critical analysis of United States foreign relations from the war with Spain in 1898 to the present.

*Prerequisite: 6 sem. hrs. of history.*

**42.398 (399) BIBLIOGRAPHY AND RESEARCH ..... 3 sem. hrs.**

Basic historical bibliography with exercises in location and use; analysis of the problems and tools of historical research and a practical application of research methods.

*Prerequisite: 6 sem. hrs. of history or consent of instructor.*

**42.412 CENTRAL EASTERN EUROPE SINCE 1815 ..... 3 sem. hrs.**

Survey of the political and cultural development of the nations of Europe which lie between Germany and Italy on the west and Russia on the east since their emergence as independent nation-states in the nineteenth and twentieth centuries.

*Prerequisites: 9 sem. hrs. of history.*

**42.424 EUROPE 1914 - 1939; THE FIRST WORLD WAR  
AND THE AGE OF THE DICTATORS.....3 sem. hrs.**

The decline and fall of European hegemony in world affairs and the traditional standards of Western society under the impact of the "Great War" and the "Great Depression." The phenomenon of totalitarianism as it manifested itself in fascist Italy, Nazi Germany, and communist Russia.  
*Prerequisite: 9 sem. hrs. of history.*

**42.425 EUROPE SINCE 1939.....3 sem. hrs.**

A survey of the major European powers in the late 1930's, emphasizing the policies of the dictators leading to war; military and diplomatic developments of World War II and the causes of the East-West rift; the reconstruction of democracy in Europe; the formation of the Soviet bloc; European integration; important current political trends in the major power systems.

*Prerequisite: 9 sem. hrs. of history.*

**42.454 CHINA AND JAPAN IN THE  
TWENTIETH CENTURY .....3 sem. hrs.**

Political, social, and economic problems in the rise of these nations to international power.

*Prerequisite: 3 sem. hrs. of history.*

**42.455 SOUTHEAST ASIA.....3 sem. hrs.**

Influences from India, from China and from the Arabs and from Europe. Treats individual countries, with emphasis on geographical, political, cultural, literary, religious, philosophical, and international factors.

*Prerequisite: 9 sem. hrs. of history.*

**42.456 SELECTED PROBLEMS IN AFRICA AND IN THE  
NEAR AND MIDDLE EAST .....3 sem. hrs.**

Intensive study of critical social, political, and economic problems of the contemporary peoples and nations in these regions.

*Prerequisite: 9 sem. hrs. of history.*

**42.471 UNITED STATES ECONOMIC HISTORY  
SINCE 1790.....3 sem. hrs.**

The industrialization of the American economy is traced within a broad social and political context. Major attention is directed toward the industrial revolution, the emergence of big business at the turn of the twentieth century, and the corporate revolution, and the place of major industries at mid-century.

*Prerequisite: 9 sem. hrs. of history.*

**42.472 HISTORY OF LABOR IN THE UNITED STATES .....3 sem. hrs.**

Surveys the problems of labor from the colonial period to the present, with emphasis upon the development of unions and their role in national life.

*Prerequisite: 9 sem. hrs. of history.*



**42.481 UNITED STATES SOCIAL HISTORY AND POPULAR CULTURE TO 1860..... 3 sem. hrs.**

Considers English institutions having relevance to colonial society, the subsequent impact of the frontier on American institutions, and emerging social differences between the North and South. Popular customs, attitudes, and habits, class and family structure, slavery, and prevailing moral standards.

*Prerequisite: 9 sem. hrs. of history.*

**42.482 UNITED STATES SOCIAL HISTORY AND POPULAR CULTURE SINCE 1860 ..... 3 sem. hrs.**

The interaction of labor and farm organizations, business corporations, racial and ethnic groups, within a increasingly urban and industrial society. The impact of new technology and additional leisure on entertainment, popular reading habits, education, and moral standards.

*Prerequisite: 9 sem. hrs. of history.*

**42.496 SELECTED POLITICAL AND CONSTITUTIONAL PROBLEMS..... 3 sem. hrs.**

A topical approach to various political and constitutional problems of American life.

*Prerequisite: 6 sem. hrs. of history.*

**POLITICAL SCIENCE**

Professors Robert L. Rosholt (Chairman); Associate Professors Charles G. Jackson, Prakash C. Kapil, James W. Percey; Assistant Professors Martin M. Gildea, Richard L. Micheri.

Arts and Sciences major for the B.A. degree:

Political Science 44.101;

Political Science 44.161 or, if qualified, 44.181;

One Course from 44.405, 409, 418, 492;

One Course from 44.181, 363, 366, 368, 371, 373, 383, 487;

Twelve semester hours elective in Political Science;

Six semester hours elective in Political Science and/or cognate areas such as computer science, statistics, economics, sociology, social psychology as approved by the adviser.

**COURSES**

(Code 44)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

† may be used toward the General Education requirement.

**44.101 (212) ELEMENTS OF POLITICAL SCIENCE †..... 3 sem. hrs.**

An introduction to the nature, scope, approaches, and methodology

of political science by means of an overview of political and governmental institutions, processes, theories and problems.

**44.161 (211) UNITED STATES GOVERNMENT † .....3 sem. hrs.**

An introduction to government and politics in the United States emphasizing constitutional development, political decision-making institutions and processes, and contemporary problems such as dissent, conflict, civil rights, and foreign policy.

**44.181 CONTEMPORARY ISSUES IN  
WORLD POLITICS † .....3 sem. hrs.**

An introduction to international politics through an examination of such critical problems as war and peace, East-West relations, nuclear disarmament, nation-building, and revolution.

**44.326 (315) PARTIES, GROUPS AND PUBLIC OPINION ....3 sem. hrs.**

The development of political parties in the United States; elections, voter behavior, and political participation; the role of interest groups; political propaganda.

**44.336 (352) PUBLIC ADMINISTRATION THEORY .....3 sem. hrs.**

Administrative and organizational theory with an emphasis on structural-functional analysis; bureaucratic behavior; current developments.

**44.351 (310) STATE GOVERNMENT AND POLITICS.....3 sem. hrs.**

U. S. federalism; state constitutions; the organization and operation of state legislatures, executives, and judiciaries; party and group politics at the state level; current problems.

**44.363 THE U.S.S.R. POLITICAL SYSTEM.....3 sem. hrs.**

The governmental process in the U.S.S.R.; the role of the Communist Party; the evolving ideology from Marx to the present; Soviet bloc politics.

**44.366 (323) POLITICAL SYSTEMS – EUROPE † .....3 sem. hrs.**

Politics and government in selected states including Great Britain, France, West Germany, and the Soviet Union; principles of comparative analysis.

**44.368 (424) POLITICAL SYSTEMS –  
LATIN AMERICA † .....3 sem. hrs.**

Constitutional and institutional structures; forces of stability and change including the military and the church; social and economic problems.

**44.371 (425) POLITICAL SYSTEMS – AFRICA † .....3 sem. hrs.**

Problems of newly independent states; the struggle for independence and attempts to create national unity in the face of traditional tribalism; economic and political development.

**44.373 (426) POLITICAL SYSTEMS - ASIA † .....3 sem. hrs.**

Politics and government in selected states with an emphasis on the forces which shape domestic and foreign policies and processes.

**44.383 (324) INTERNATIONAL RELATIONS.....3 sem. hrs.**

The sources of international conflict and cooperation; power politics in the international arena; Problems of collective security and the settlement of disputes.

**44.405 (433) THE DEVELOPMENT OF POLITICAL THOUGHT .....3 sem. hrs.**

Selected political theorists from Plato to Nietzsche are compared with contemporary American political theorists in an attempt to build bridges between traditional and contemporary theories and theorists. Included are: Plato and Strauss, Thucydides and Max Weber, Aristotle and Lipset, Augustine and Morgenthau, Machiavelli and Neustadt, Rousseau and Dewey, Aquinas and Maritain, Hobbes and Riker, Burke and Lippmann, Marx and C. Wright Mills, and John Stuart Mill and Christian Bay.

**44.409 (532) AMERICAN POLITICAL THOUGHT.....3 sem. hrs.**

An analysis of the relationship of American political thought to contemporary political science by using traditional materials in a historical, chronological way but reworking them to show their relation and relevance to actions and institutions. Included are the main ideas of the leading political thinkers in American from the Colonial period to the present.

**44.418 COMPUTER APPLICATIONS IN POLITICAL SCIENCES.....3 sem. hrs.**

An introduction to the principal computer languages used in political science and the social sciences (primarily FORTRAN) and the application of computers to political science research and problem solving.

**44.429 (317) BLACK POLITICS.....3 sem. hrs.**

An analysis of the role of Blacks in American politics, the Black Power movement, civil rights, and racial conflict.

**44.437 PUBLIC ADMINISTRATION APPLICATIONS.....3 sem. hrs.**

An analysis of the methods and techniques in the application of administrative and organizational theory to the operations of governmental bureaucracies. Topics covered include: Planning-Program Budgeting Systems (PPBS), Program Evaluation Review Technique (PERT), and Operations Research (OR).

**44.446 (451) CONSTITUTIONAL LAW .....3 sem. hrs.**

An analysis of the evolution, structure and function of the Supreme Court, concentrating on a case study approach of the Court's interpretations of the commerce and taxing powers, federal-state relationships and civil rights.

**44.448 (518) THE JUDICIAL PROCESS ..... 3 sem. hrs.**

Judicial policy making is studied through systems theory, group theory, and judicial attitude and behavior.

**44.453 (311) URBAN GOVERNMENT AND POLITICS ..... 3 sem. hrs.**

An analysis of the structure and function of city governments, decision-making in urban politics, groups and group conflict, metro-politics, the megalopolis, and contemporary problems of the American city.

**44.458 (513) U. S. FOREIGN POLICY ..... 3 sem. hrs.**

An analysis of the substance, methods, and purposes of U. S. foreign policy including the determinents of our foreign policy, policy making machinery, the implementation of our foreign policy, and contemporary foreign policy problems.

**44.487 (525) INTERNATIONAL LAW AND ORGANIZATIONS..... 3 sem. hrs.**

The theoretical and practical implications of the legal and organiza-tional efforts to regulate inter-nation relations without violent conflict with emphasis on international law, the United Nations, the International Court of Justice, and several regional and functional organizations.

**44.491 READINGS IN GOVERNMENT AND POLITICS..... 3 sem. hrs.**

Topics are selected on the basis of close consultations between instructor and student. Designed for both group or individual study.

**44.492 (470) SEMINAR IN GOVERNMENT AND POLITICS..... 3 sem. hrs.**

Selected problems in government and politics are studied in an attempt to review and unify theories and methods of political science. Individual research projects are emphasized.

## **SOCIOLOGY AND ANTHROPOLOGY**

Professors Ralph R. Ireland (Chairman); Associate Professors Ober Morning, Jr., Jane J. Plumpis, Robert R. Reeder, Bernard J. Schneck, Robert R. Solenberger; Assistant Professors David A. Benson, Joseph A. DeFelice, David E. Greenwald.

Arts and Sciences major for the B.A. degree:

Sociology 45.211, 460, 462, 466 and 18 semester hours in sociology and/or anthropology chosen by the student in consultation with the adviser in the light of the student's purpose.

Students who wish to take a concentration in Social Welfare should include 45.233, 334, and 336 among their elective courses, and seek the recommendations of their advisers for the remaining nine hours of the concentration.



Students wishing to take a concentration in anthropology should note the availability of courses in this area and seek the recommendations of their advisers for the remaining eighteen hours of required courses.

## COURSES

### SOCIOLOGY

(Code 45)

**45.211 PRINCIPLES OF SOCIOLOGY †.....3 sem. hrs.**

The basic characteristics of group behavior, the organization of society and culture, individual and community adjustment in the light of their origin, development, form, and functions.

**45.213 CONTEMPORARY SOCIAL PROBLEMS †.....3 sem. hrs.**

Urgent social problems, and proposals offered for their solution. Topics include social change, personal maladjustment, social disorganization, mobility, families, and aging.

*Prerequisite: 45.211.*

**45.233 INTRODUCTION TO SOCIAL WORK AND THE WELFARE SERVICES †.....3 sem. hrs.**

An examination of modern welfare services, followed by a study of some of the methods by which social workers help to solve problems which range from adoption, and care for the aged, to marital counseling, parole supervision, and community organization.

*Prerequisite: 45.211.*

**45.315 RACIAL AND NATIONAL MINORITY GROUPS.....3 sem. hrs.**

An analysis of relations involving racial, national, and religious minorities in the United States. Emphasis is placed on efforts being made toward possible adjustments in existing relationships.

*Prerequisite: 45.211.*

**45.316 URBAN SOCIOLOGY.....3 sem. hrs.**

Analysis of origin and growth of the city in the U. S. with emphasis on ecological changes and the dynamic patterns of interaction on the contemporary scene.

*Prerequisite: 45.211.*

**45.318 SOCIAL STRATIFICATION.....3 sem. hrs.**

A review and analysis of some of the major theories and research in social stratification and social mobility as related to ethnic and racial communities, religion, mental disorders, schools, marriage and the family, and socialization.

*Prerequisite: 45.211.*

- 45.319 RELIGION AND SOCIETY.....3 sem. hrs.**  
 Analysis of the relationship between religion and social institutions and processes.  
*Prerequisite: 45.211.*
- 45.331 MARRIAGE AND THE FAMILY.....3 sem. hrs.**  
 Cultural traditions; new problems in social behavior these institutions face in a changing society.  
*Prerequisite: 45.211.*
- 45.332 PERSONALITY IN CULTURE AND SOCIETY.....3 sem. hrs.**  
 Examination of cultural influences on the development of personality; analysis of personality differences in various cultures; explanatory hypotheses.  
*Prerequisite: 45.211.*
- 45.334 SOCIAL CASEWORK.....3 sem. hrs.**  
 Representative cases in the field of social work; techniques of investigation and criteria for appraisal.  
*Prerequisite: 45.233 or permission of the instructor.*
- 45.336 CHILD WELFARE .....3 sem. hrs.**  
 Historical and comprehensive study of the principal child welfare services.  
*Prerequisite: 45.233 or permission of the instructor.*
- 45.341 CRIMINOLOGY.....3 sem. hrs.**  
 Theories of causes of crime, including physical type, differential association, psychiatric, etc. Volume, scope, and trends in crime; police, administration of justice, rehabilitation theory and practice.  
*Prerequisite: 45.211.*
- 45.350 INDUSTRIAL SOCIOLOGY .....3 sem. hrs.**  
 Work and the milieu of the worker; formal and informal organizations in industry; problems of the worker; industrial morale and teamwork; social adjustment of the worker; and the relation of industry to the community and society.  
*Prerequisite: 45.211 or permission or instructor.*
- 45.442 JUVENILE DELINQUENCY.....3 sem. hrs.**  
 Examination of social pressures operative upon children in American society which lead to formation of delinquent personality. Consideration of treatment and prevention, juvenile courts, clinics and correctional institutions.  
*Prerequisite: 45.211.*
- 45.460 BASIC STATISTICAL METHOD .....3 sem. hrs.**  
 Introductory principles and techniques of statistical analysis with emphasis on application to sociological data: collection and tabulation of

data; probability; inference and estimation; measures of dispersion; sampling and correlation.

**45.462 SOCIOLOGICAL THEORY.....3 sem. hrs.**

Survey of the development of sociological theory from Comte and Spencer. Comparison of modern schools of thought, including mechanistic, geographic, analytical, functional, and neo-positivistic.

*Prerequisite: 45.211.*

**45.466 RESEARCH METHODS IN THE SOCIAL SCIENCES.....3 sem. hrs.**

Methods and techniques in social science research. Preparation of research projects, questionnaires, sampling, interviews, etc. Introduction to methods of analysis and interpretation of data.

*Prerequisite: 45.211 and 45.460 or equivalent.*

**45.470 SENIOR SEMINAR.....3 sem. hrs.**

Individual research projects and reports within selected areas of interest such as the family, criminology, social stratification, and ethnic minorities.

*Prerequisite: 18 hours of sociology including 45.460 and 45.466, and permission of the department chairman.*

## ANTHROPOLOGY

(Code 46)

**46.200 PRINCIPLES OF CULTURAL ANTHROPOLOGY †.....3 sem. hrs.**

Man's biocultural development and cultural achievement. The function of elements and configurations of material and non-material culture in meeting human needs. Cultural processes and the role of culture in personality formation.

**46.301 FIELD ARCHAEOLOGY I.....3 sem. hrs.**

Field investigation of various aboriginal cultures which have occupied the valley of the North Branch of the Susquehanna River since the glacial age. Emphasis on excavation of sites in this area, preceded by orientation to stratigraphic and recording techniques.

**46.302 FIELD ARCHAEOLOGY II.....3 sem. hrs.**

Intensive study of problems encountered in archaeological research on the prehistoric cultures of the Susquehanna Valley, as revealed by excavation and comparative study of finds.

**46.320 CONTEMPORARY WORLD CULTURES.....3 sem. hrs.**

Comparative analysis of selected non-European societies in con-

trasting cultural and natural areas. Stresses on the natural and social environment, national character, religion and world view, and literary, artistic, and musical expression.

*Prerequisite: 46.200.*

**46.340 NORTH AMERICAN ETHNOGRAPHY AND  
ARCHAEOLOGY .....3 sem. hrs.**

Survey of the cultural types and language distributions of the North American Indian in prehistoric and early historic periods. Includes Indians and archaeology of Pennsylvania.

*Prerequisite: 46.200.*

**46.410 PRIMITIVE ARTS.....3 sem. hrs.**

Graphic arts, literature, music, and the dance of ancient and non-European cultures.

*Prerequisite: 46.200 or permission of the instructor.*

**46.480 PRIMITIVE RELIGION .....3 sem. hrs.**

A critical examination of religion and magic in primitive society. Anthropological theories of the forms and functions of religion in human life.

*Prerequisite: 46.200.*

**46.490 SOCIALIZATION OF THE CHILD IN  
PRIMITIVE SOCIETY.....3 sem. hrs.**

Life experience and adjustment of the individual through infancy, middle childhood and youth. Contrasting methods of introducing children to adult economic, social and religious activities.

*Prerequisite: 46.200 or 45.211.*

## PSYCHOLOGY

Professors Martin A. Satz (Chairman), Merritt W. Sanders, Louise Seronsy; Associate Professors Donald R. Bashore, Victor X. Fongemie, Michael W. Gaynor, James D. Pietrangeli, J. Calvin Walker; Assistant Professors Phillip A. Rouse; Instructors Robert H. Finks.

Arts and Sciences major for B.A. degree:

Psychology 48.101, 260, 361; 21 semester hours elective in psychology with one course in each of six categories defined by the department.

## COURSES

(Code 48)

**48.101 GENERAL PSYCHOLOGY .....3 sem. hrs.**

How people behave and why they behave as they do. Heredity and



environment, the nature and function of perception, emotion and thought, the forces that bring about various kinds of behavior, and the problems of personal adjustment.

**48.102 ADVANCED GENERAL PSYCHOLOGY .....3 sem. hrs.**

More intensive and detailed understanding of psychological processes than in Psychology 101.

*Prerequisite: 48.101.*

**48.211 CHILD PSYCHOLOGY .....3 sem. hrs.**

A study of the normal child from the prenatal period to adolescence and of the interrelationships among various aspects of development - biological, cognitive, personality, social - with emphasis on social-personal factors.

*Prerequisite: Consent of department chairman.*

**48.260 BASIC STATISTICS.....3 sem. hrs.**

An introduction to fundamental statistical concepts and principles, providing a foundation for research methodology for students who need not be mathematically inclined. Emphasizes computation, interpretation, and application of commonly used descriptive, correlational, and inferential statistical procedures for analyzing data

**48.261 EXPERIMENTAL PSYCHOLOGY .....3 sem. hrs.**

Survey of psychology as a laboratory science: concepts, methodology, techniques and areas of study. Laboratory period provides practical experience, 2 class hours, 2 laboratory hours.

*Prerequisite: 48.101 and 48.260 completed or concurrent.*

**48.271 EDUCATIONAL PSYCHOLOGY .....3 sem. hrs.**

Principles of psychology as applied to the classrooms. Emphasis is upon learning processes as affected by environmental, experiential and developmental factors.

*Prerequisite: Psychology 101.*

**48.321 PSYCHOLOGICAL TESTS AND MEASUREMENTS...3 sem. hrs.**

An introduction to the logic of psychological measurement, emphasizing the applied and practical aspects of psychological testing through classroom exercises on administering, scoring, and interpreting test results. Provides student with necessary background for test evaluation.

*Prerequisite: 48.101, 48.260.*

**48.331 PSYCHOLOGY OF ADJUSTMENT**

Personal and social meaning of adjustment. An operational approach to mental health is taken including such concepts as anxiety, frustration, conflict, aggression and defense.

*Prerequisite: 48.101.*

**48.351 SOCIAL PSYCHOLOGY .....3 sem. hrs.**

The study of interpersonal behavior - how man affects and is affected by others - with emphasis on affiliation, inter-personal perception and attraction, group behavior and conformity, attitude change and compliance.

*Prerequisite: 48.101.*

**48.375 PSYCHOLOGY OF LEARNING .....3 sem. hrs.**

Theoretical and experimental bases of learning in animal and human behavior. Situational and drive factors affecting learning, stimulus generalization and discrimination, retention, and forgetting.

*Prerequisite: 48.101.*

**48.380 PHYSIOLOGICAL PSYCHOLOGY .....3 sem. hrs.**

Study of the interplay between various body organs and tissues and behavior. Behavior as the resultant of the functioning of the nervous system, receptors, muscles and glands. Hereditary patterns of special psychological interest are considered.

*Prerequisite: 48.101 and consent of the instructor.*

**48.401 CONTEMPORARY FOUNDATIONS OF PSYCHOLOGY.....3 sem. hrs.**

A study of the historical development of ideas and systems of thought in psychology. Compares modern schools of thought, including psychoanalytic, field-cognitive, and behavioristic.

*Prerequisite: 48.101.*

**48.406 PSYCHOLOGY SEMINAR .....3 sem. hrs.**

In-depth studies of a selected topic viewed in turn from the perspective of each of the major disciplines of psychology. Students bring to the seminar for discussion the products of their searches and deliberations. Designed for students with demonstrated ability and background in psychology.

*Prerequisite: 21 hours of psychology and consent of instructor.*

**48.416 ADOLESCENT PSYCHOLOGY .....3 sem. hrs.**

The physical, social, and psychological attributes of adolescence, and problems and manner of adolescent adjustment in a dynamic society.

*Prerequisite: 48.101.*

**48.431 ABNORMAL PSYCHOLOGY.....3 sem. hrs.**

The classification, psychodynamics, treatment and prognosis of mental disorders. Emphasis is placed on the characteristics of these disorders, their etiology, and various approaches to treatment and remediation.

*Prerequisite: 48.101.*

**48.436 THEORIES OF PERSONALITY .....3 sem. hrs.**

Critical study of theories explaining development, structure and organization of personality. Considers personality from psychoanalytic, social, individual, self, and learning points of view.

*Prerequisite: 48.101.*

**48.452 INDUSTRIAL PSYCHOLOGY .....3 sem. hrs.**

Services of the psychologist to business and industry. Includes modes of job analysis, motion studies, employee selection, promotion and termination, training, rating, and research.

*Prerequisite: 48.101.*

**48.456 PSYCHOLOGY OF MOTIVATION .....3 sem. hrs.**

A survey of the fundamental determinants of human and animal activity. Theories, research methodologies, and experimental evidence related to the activation and direction of behavior.

*Prerequisite: 48.101, 48.375.*

**48.462 ADVANCED EXPERIMENTAL PSYCHOLOGY .....3 sem. hrs.**

Literature search, experimental design, modern methodology, instrumentation, and data analysis for in-depth study of psychological variables culminating in individual research.

*Prerequisite: 48.261 and consent of instructor.*

**48.466 RESEARCH PROJECTS IN PSYCHOLOGY .....3 sem. hrs.**

Laboratory research topics of individual interest are explored via a one-to-one faculty-student relationship. Emphasis is upon work of publishable quality.

*Prerequisite: 21 semester hours in psychology and consent of department chairman.*

## **GROUP III: NATURAL SCIENCES AND MATHEMATICS**

### **BIOLOGY**

Professors Michael Herbert, Julius R. Kroschewsky, Donald D. Rabb, (Chairman); Associate Professors James E. Cole, Philip A. Farber, George J. Gellos, Craig L. Himes, Jerome J. Klenner, Thomas R. Manley, Louis V. Mingrone, Stanley A. Rhodes, Robert G. Sagar, Joseph P. Vaughan; Instructors John R. Fletcher.

**Arts and Sciences Major for the B.S. degree:**

Biology 50.210, 220, 332, 380; 50.331 or 361 or 362; 50.371 or 362; Chemistry 52.111, 112, 331, 332; Physics 54.111, 112; Mathematics 53.121, 122.

## COURSES

(Code 50)

Courses marked † may be applied toward General Education.

**50.101 (103) GENERAL BIOLOGY I † ..... 3 sem. hrs.**

Major concepts and principles of biology relating to man and his environment. Lecture and discussion. Not for biology majors.

**50.111 GENERAL BIOLOGY I LABORATORY † ..... 1 sem. hrs.**

An optional audio-tutorial laboratory program correlated with General Biology I, lectures. 2 hrs. laboratory/week.  
*Prerequisite: 50.101 (may be taken concurrently).*

**50.102 (104) GENERAL BIOLOGY II † ..... 3 sem. hrs.**

The plant animal kingdom are studied from the ecological, evolutionary aspect equating man's influence and association with living organisms. Not for biology majors.  
*Prerequisite: 50.101 or consent of instructor.*

**50.112 GENERAL BIOLOGY II LABORATORY † ..... 1 sem. hrs.**

An optional laboratory program correlated with General Biology II, lectures.  
*Prerequisite: 50.102 (may be taken concurrently).*

**50.210 GENERAL ZOOLOGY † ..... 4 sem. hrs.**

The fundamental principles of zoology as applied to representative groups of invertebrate and vertebrate animals. Laboratory work emphasizes the development, anatomy, physiology and behavior of representative animals. 3 hrs. lecture, 3 hrs. laboratory/week.

**50.220 GENERAL BOTANY † ..... 4 sem. hrs.**

The fundamental principles of taxonomy, anatomy, morphology, physiology, and genetics as applied to the plant kingdom. 3 hrs. lecture, 3 hrs. laboratory/week.

**50.311 (210) INVERTEBRATE ZOOLOGY ..... 3 sem. hrs.**

The principal phyla of invertebrate animals are studied in relation to their anatomy, classification, and their role in the ecosystems in which they participate. 2 hrs. lecture, 3 hrs. laboratory/week.  
*Prerequisite: 50.210.*

**50.312 (211) VERTEBRATE ZOOLOGY ..... 3 sem. hrs.**

The biology of the vertebrate animal, emphasizing morphology, physiology, embryology, and behavior. Evolutionary and ecological aspects of each class. 2 hrs. lecture, 3 hrs. laboratory/week.  
*Prerequisite: 50.210.*

**50.321 COMPARATIVE BIOLOGY OF  
NON-VASCULAR PLANTS ..... 3 sem. hrs.**

The study of plants having no vascular system, i.e., the algae, fungi,



and plants lacking true roots, stems, and leaves. Emphasis on the anatomy, physiology, reproductive cycles, economics, and evolution of these members of the plant kingdom. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite:* 50.220.

**50.322 COMPARATIVE BIOLOGY OF VASCULAR PLANTS.....3 sem. hrs.**

The phylogenetic study of major vascular plants with emphasis on development, structure, reproduction, and selected paleobotanical aspects. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite:* 50.220.

**50.331 (371) EMBRYOLOGY.....3 sem. hrs.**

A study of reproduction and development with special emphasis on vertebrates. Laboratory work consists of the study of maturation of the germ cells, the early development of certain animal types, and the study of experiments on some types of living embryos. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite:* 50.210 or consent of the instructor.

**50.332 (341) GENETICS.....3 sem. hrs.**

The study of the mechanisms of heredity in animal and plants; Mendelian inheritance, probability, linkage, crossing over, chromosomal modifications, nucleic acids and gene action. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisites:* 50.210 and 50.220.

**50.333 HUMAN GENETICS †.....3 sem. hrs.**

Basic principles applied to problems in biology, medicine, psychology, special education, and sociology.

*Prerequisite:* 50.101 or consent of instructor.

**50.341 (361) MICROBIOLOGY.....3 sem. hrs.**

Metabolism, cultivation, identification, and control of microorganisms with emphasis on bacteria, viruses, and fungi, their distribution in nature and their beneficial activities and harmful effects on man. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite:* 50.220.

**50.351 (331) GENERAL ECOLOGY.....3 sem. hrs.**

The interrelationships of plants or animals and their environments with special emphasis on the principles which govern these relationships. The systematic position, their reactions to the environment and to each other, and the physical and chemical nature of their inanimate surroundings is examined at the species, population and community level. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite:* 50.210 and 220.

**50.352 (417) FIELD ZOOLOGY.....3 sem. hrs.**

Animals observed and classified in the field. Emphasis is on the natural history of vertebrates of Northeastern Pennsylvania. The study of

man's effect upon and management of wild vertebrates and their cultural and economic value. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.210.*

**50.353 (432) FRESH WATER BIOLOGY .....3 sem. hrs.**

The biology of streams, lakes and ponds and their relationship to health and welfare. 2 hrs. lecture, 3 hrs. laboratory/week.

**50.361 (482) COMPARATIVE VERTEBRATE ANATOMY....3 sem. hrs.**

A comparative study of the vertebrate groups and their organ systems as to their structure, functional adaptation and evolutionary trends. Laboratory work consists of the dissection of the lamprey, the dogfish shark, and the cat, and the study of the living frog larva, rat, and rabbit. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.101 or 210, or consent of the instructor.*

**50.362 (421) PLANT ANATOMY .....3 sem. hrs.**

Cells, tissues, and structural features of vascular plants: emphasis on origin, development, and function. Fundamental concepts concerning gross, histological, and physiological aspects are correlated in terms of growth, patterns of differentiation, and maturation of plant parts. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.220.*

**50.363 (422) PLANT TAXONOMY .....3 sem. hrs.**

Identification and classification of seed plants represented in local flora. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.220, or consent of the instructor.*

**50.364 (471) VERTEBRATE HISTOLOGY.....3 sem. hrs.**

A study of vertebrate tissues from the various body systems. Laboratory studies include the use of prepared slides, photomicrographs, and basic histological techniques. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.210.*

**50.365 HISTOLOGICAL AND HISTOCHEMICAL  
TECHNIQUES.....3 sem. hrs.**

A laboratory course which is designed to provide theory and practice in the fixation, embedding, sectioning and staining of various animal tissues. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: Chem. 52.231.*

**50.371 (381) VERTEBRATE PHYSIOLOGY .....3 sem. hrs.**

The functions of tissues, organs, and systems and their chemical integration. Emphasis on mammalian circulation, respiration, digestion, metabolism, renal function, reproduction, and endocrines.. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.210; Chem. 52.111; or consent of instructor.*

**50.372 (420) PLANT PHYSIOLOGY ..... 3 sem. hrs.**

An introduction to plant function including discussions of water relations, carbohydrate metabolism and translocation, photosynthesis, mineral nutrition, plant growth hormones, and growth and development. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.220; Chem. 52.211 or 231; or consent of instructor.*

**50.380 (490) SENIOR SEMINAR ..... 1 sem. hr.**

An informal discussion course for consideration of important topics in modern biology. One hour per week.

**50.390 (492) RESEARCH TOPICS IN BIOLOGY ..... 1 sem. hr.**

Familiarization and application of techniques necessary to prepare an in-depth study of some phase of biology.

*Prerequisite: Consent of instructor.*

**50.411 (452) RADIATION BIOLOGY ..... 3 sem. hrs.**

Effects of radiation on living organisms; nuclear structure; fundamental properties of radiation; physical, chemical, and genetic effects on plants and animals from cells to whole organisms; application of radiochemicals in biological studies.

*Prerequisite: 50.332; Chem. 52.232; Math 53.141; or consent of instructor.*

**50.431 (441) EVOLUTION ..... 3 sem. hrs.**

Mechanics of evolution; nature and behavior of genes; factors effecting gene frequencies; speciation mechanisms; population analysis.

*Prerequisite: 50.332.*

**50.432 STUDIES IN SPECIATION ..... 3 sem. hrs.**

A study of plants and animals in areas where biotas merge giving rise to interspecific hybridization: a field course conducted off campus. Area of study will vary. Student is expected to peruse research involving a single genus or species.

*Prerequisite: Consent of instructor.*

**50.441 (443) CYTOLOGY AND CYTOGENETICS ..... 3 sem. hrs.**

Structure and function of cytoplasmic and nuclear organelles of cells. Laboratory studies include techniques for cell, chromosome, and tissue preparation, 2 hrs. lecture, 2 hrs. laboratory/week.

*Prerequisite: 50.332 and Chem. 52.231.*

**50.453 SOCIAL IMPLICATIONS OF BIOLOGY† ..... 3 sem. hrs.**

Biology as related to contemporary problems: population, food, environments, etc. The course is directed toward those who are concerned with the state of biology in modern times; there are no course prerequisites.

**50.454 ETHOLOGY .....3 sem. hrs.**

Description and classification of behavior; its evolution and biological function. Mechanisms underlying behavior, especially species—typical behavior, are emphasized. 3 hrs. lecture, 2 hrs. lecture, 2 hrs. laboratory/week.

*Prerequisite: 50.210 and 371 or consent of instructor.*

**50.455 ENVIRONMENTAL MICROBIOLOGY .....3 sem. hrs.**

Practical application of knowledge of micro-organisms; their effects on our environment; methods of control; sanitation regulations and testing procedures. Field trips taken when practical.

*Prerequisite: 50.341.*

**50.456 (411) ENTOMOLOGY.....3 sem. hrs.**

A field course. Collection and identification of larval and adult insects; mounting and preparing insects for study. 2 hrs. lecture, 3 hrs. laboratory/week.

**50.457 (414) ICHTHYOLOGY.....3 sem. hrs.**

Field and laboratory study of the fishes of the streams and rivers of this area including their collection, taxonomy, anatomy, and ecological methods. 2 hrs. lecture, 3 hrs. laboratory/week.

**50.458 HERPETOLOGY .....3 sem. hrs.**

Amphibians and reptiles: structure, evolutionary history, speciation, geographic distribution, behavior. The laboratory is based on local faunas and on specimens available from local institutions. Techniques useful in collection, preserving and identifying specimens. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.210 and 220.*

**50.459 (413) ORNITHOLOGY .....3 sem. hrs.**

Biology of birds, emphasizing their ecology and identification in the field. Saturday morning field trips. 2 hrs. lecture, 3 hrs. laboratory/week.

*Prerequisite: 50.210.*

**50.463 BIOLOGICAL PHOTOGRAPHIC TECHNIQUES.....3 sem. hrs.**

Theory and practice of photography as applied to biology, including negative and print making, gross specimen photography, copying, transparencies, filmstrips, autoradiography, nature work in close-ups, photomicrography, thesis illustrations, and other special techniques. 2 hrs. lecture, 3 hrs. laboratory/week.

**50.472 CELL PHYSIOLOGY .....3 sem. hrs.**

Application of physical and chemical principles to cellular processes; biochemistry of cellular constituents; physiochemical environment; bioenergetics; intermediate metabolism.

*Prerequisite: 12 hours of Biology; Chemistry 52.211 or 52.231; or consent of instructor.*

# EARTH AND SPACE SCIENCE

Faculty: See Geography.

Arts and Sciences major for the B.A. degree:

Earth Science 51.101, 51.102, 51.493; 21 sem. hrs. elective from 51.253, 255, 259, 365, 367, 368, 369, 475, 451; Mathematics 53.110 and one additional course; Chemistry 52.111; Physics 54.111; Chemistry 52.112 or Physics 54.112.

## COURSES

(Code 51)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

Courses marked † may be applied toward the General Education requirement. Other Earth Science courses may also be applied provided one of the marked courses has been taken.

### **51.101 (357) PHYSICAL GEOLOGY †.....3 sem. hrs.**

A study of the landscape in relation to the structure of the earth's crust; agents at work to change landforms; classification and interpretation of rocks. 2 hours class and 2 hours laboratory/week.

### **51.102 (361) HISTORICAL GEOLOGY † .....3 sem. hrs.**

Earth history as interpreted from rock and fossil evidence with emphasis on the evolutionary sequence of plant and animal life.

### **51.253 (453) ASTRONOMY .....3 sem. hrs.**

Physical characteristics and motions of the solar system; interesting phenomena of our galactic system and those of extragalactic space; study of constellations.

*Prerequisite: Mathematics 53.101 or 53.111.*

### **51.255 (355) METEOROLOGY .....3 sem. hrs.**

A study of the atmosphere and of laws and underlying principles of atmospheric changes. 2 hours class and 2 hours laboratory/week.

### **51.259 (359) OCEANOGRAPHY .....3 sem. hrs.**

Introduction to the geologic, chemical, and physical aspects of the ocean basins. Emphasis is on ocean basin structure, topographic features, wave motion, current circulation, and methods of investigation.

### **51.365 GEOMORPHOLOGY.....3 sem. hrs.**

Principal types of landforms and landforming processes with particular emphasis on their relationship to the underlying rock lithologies and structures. 2 hours class and 2 hours laboratory/week.



**51.367 ROCKS AND MINERALS..... 3 sem. hrs.**

Origins, occurrences, associations, and identifying characteristics of common minerals and rocks. 2 hours class and 2 hours laboratory/week.

**51.468 (368) STRATIGRAPHY AND SEDIMENTATION..... 3 sem. hrs.**

Processes and agents which erode, transport, and deposit sediments, and the geologic interpretation of the resulting rocks.

**51.369 STRUCTURAL GEOLOGY..... 3 sem. hrs.**

An analysis of rock deformation based upon the principles of rock mechanics and the utilization of data from field investigations. 2 hours class and 2 hours laboratory/week.

**51.451 FIELD TECHNIQUES IN EARTH AND SPACE SCIENCE..... 6 sem. hrs.**

Intensive field training in the use of equipment and techniques in the areas of geology, astronomy, meteorology, and cartography.

**51.475 SPECIAL PROBLEMS IN EARTH SCIENCE ..... 1-3 sem. hrs.**

Independent directed research oriented to studies of selected problems in earth science.

*Prerequisite: 21 semester hours in Earth Science.*

**51.493 BIBLIOGRAPHY AND RESEARCH..... 3 sem. hrs.**

## CHEMISTRY

Professors Harold H. Lanterman, Wilbert A. Taebel, Norman E. White (Chairman); Associate Professors Barrett W. Benson, Clyde S. Noble, Rex E. Selk; Assistant Professor Roy D. Pointer.

Arts and Sciences major for the B.S. degree:

Chemistry 52.111, 112, 222, 231, 232, 311, 312, 421, 422, 424, 490; three semester hours chosen from 52.413, 433, 441, 491, 492; Mathematics 53.121, 122, 171, 221, 322; Physics 54.211, 212, 310; reading knowledge of German or Russian: (a year of Scientific German is recommended.)

Arts and Sciences major for the B.A. degree:

Chemistry 52.111, 112, 222, 231, 311, 312, 490; four semester hours chosen from 52.421, 422, 424; Mathematics 53.211, 212, 311; Physics 54.211, 212.

(Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.)

## COURSES

(Code 52)

Courses marked † may be applied toward General Education.

### 52.111 GENERAL CHEMISTRY I † .....4 sem. hrs.

Basic principles of chemistry: emphasis on atomic structure, periodic tables, chemical bonding, the states of matter and chemical calculations; laboratory practice in techniques, methods and solution of chemical problems. 6 hours/week: 3 class, 3 laboratory.

### 52.112 GENERAL CHEMISTRY II † .....4 sem. hrs.

A continuation of 52.111: study of the elements by periodic groups; introduction to modern inorganic chemistry including coordination compounds; introduction to organic chemistry; laboratory emphasizes qualitative analysis. 6 hours/week: 3 class, 3 laboratory.

*Prerequisite: 52.111 or equivalent.*

### 52.211 INTRODUCTORY ORGANIC CHEMISTRY † .....4 sem. hrs.

A survey of functional group organic chemistry with emphasis on those fundamentals of structure, stereochemistry, and reaction mechanisms which are desirable for an understanding of the chemistry of biomolecules. Students who contemplate further work in chemistry should take the 52.231-232 sequence. Not open to Chemistry majors. 6 hours/week: 3 class, 3 laboratory.

*Prerequisite: 52.111 or equivalent.*

### 52.212 INTRODUCTORY BIO-ORGANIC CHEMISTRY † ....4 sem. hrs.

Continuation of 52.211. The organic chemistry of biomolecules with emphasis on the structure and chemical transformations of proteins, carbohydrates, lipids, and nucleic acids. 6 hours/week; 3 class, 3 laboratory.

*Prerequisite: 52.211.*

### 52.222 QUANTITATIVE ANALYSIS † .....4 sem. hrs.

Fundamental principles of quantitative chemical analysis. Emphasizes gravimetric and volumetric techniques and introduces electro-analytical and optical techniques. Laboratory skills and calculations of quantitative analysis are stressed. 8 hours/week: 2 class, 6 laboratory.

*Prerequisite: 52.112.*

### 52.231 ORGANIC CHEMISTRY I † .....4 sem. hrs.

Fundamental principles of organic chemistry. Molecular structure, stereochemistry and reactions of hydrocarbons and their derivatives. Reaction mechanisms and syntheses emphasized. 7 hours/week: 3 class, 4 laboratory.

*Prerequisite: 52.112.*

### 52.232 ORGANIC CHEMISTRY II † .....4 sem. hrs.

A continuation of 52.231, with emphasis on reactions of common

functional groups, synthesis and mechanism. Modern spectroscopic methods and the interpretation of spectra introduced. 7 hours/week: 3 class, 4 laboratory.

*Prerequisite:* 52.231.

**52.311 PHYSICAL CHEMISTRY I.....4 sem. hrs.**

Theoretical foundations of chemistry. Gases and kinetic theory; the laws of thermodynamics with applications to chemical systems; chemical equilibrium. 7 hours/week: 3 class, 4 laboratory.

*Prerequisite:* 52.222 or consent of instructor; 54.211 or 111; 53.212.

**52.312 PHYSICAL CHEMISTRY II .....4 sem. hrs.**

Continuation of 52.311. Atomic structure, quantum theory and chemical bonding; reaction kinetics; electrochemistry of solutions. Laboratory experiments to illustrate the above. 7 hours/week: 3 class, 4 laboratory.

*Prerequisite:* 52.311; 54.212 or 112.

**52.413 PHYSICAL CHEMISTRY III.....3 sem. hrs.**

Additional topics in theoretical chemistry. Solutions and colligative properties; solids and liquids; phase equilibria; molecular properties; nuclear chemistry; introduction to statistical thermodynamics. 3 hours class/week.

*Prerequisite:* 52.312.

**52.421 ADVANCED INORGANIC CHEMISTRY .....4 sem. hrs.**

Selected theories and principles of inorganic chemistry are studied in detail. Directed use of the chemical literature is an important part of the course. Individual experimental work in the laboratory consists chiefly of preparation and purification of inorganic compounds by advanced and specialized techniques. 6 hours/week: 3 class, 3 laboratory.

*Prerequisite:* 52.311; 52.312 or concurrent.

**52.422 QUALITATIVE ORGANIC ANALYSIS.....4 sem. hrs.**

Characterization and identification of organic compounds involving methods of separation, purification, classical wet analysis and spectroscopic analysis. 8 hours/week: 2 class, 6 laboratory.

*Prerequisite:* 52.232.

**52.424 INSTRUMENTAL ANALYSIS.....4 sem. hrs.**

Covers theory and laboratory applications of some of the instrumental methods of analysis currently in use in modern analytical chemistry. Topics include chromatography, spectrophotometry, polarography, electroanalysis, nuclear magnetic resonance, and others. A laboratory-centered course. 8 hours/week: 2 class, 6 laboratory.

*Prerequisite:* 52.222, 52.311; 52.312 or concurrent.

**52.433 ADVANCED ORGANIC CHEMISTRY .....3 sem. hrs.**

Advanced theory, stereochemistry and utility of organic reactions.

Reactive intermediates; carbonium ions, carbanions, and free radicals emphasized. 3 hours class/week.

*Prerequisite: 52.232; 52.312 or concurrent.*

**52.441 MODERN BIOCHEMISTRY.....3 sem. hrs.**

Chemistry of proteins, lipids, carbohydrates; intermediary metabolism; introduction to enzyme chemistry. 5 hours/week: 2 class, 3 laboratory.

*Prerequisites: 52.232, 52.312.*

**52.490 CHEMISTRY SEMINAR ..... 1 sem. hr.**

**52.491 SPECIAL TOPICS.....1 to 3 sem. hrs.**

May take the form of a directed laboratory or library oriented investigation on one or more topics of mutual interest to student and instructor. *Registration by consent of the instructor and Department Chairman.*

**52.492 CHEMICAL RESEARCH.....3 sem. hrs.**

Laboratory investigations of selected problems for advanced students. *Registration by consent of the instructor and Department Chairman.*

## MATHEMATICS

Associate Professors Charles R. Reardin, Charles M. Brennan, Leroy H. Brown, JoAnne S. Growney, Robert L. Klinedinst, Joseph E. Mueller, Ronald W. Novak, Clinton J. Oxenrider, George G. Stradtman; Assistant Professors Harold J. Bailey, Paul G. Hartung, James V. Moroose II, Thomas L. Ohl, June L. Trudnak.

Arts and Sciences Major for B.A. degree:

Mathematics 53.121, 122, 211, 221, 241; 12 semester hours elective from 53.117, 171, 212, 231, 271, 311, 312, 322, 331, 341, 371, 411, 421, 422, 451, 461, 471, 472.

## COURSES

(Code 53)

Note: When course numbers have been changed, the former numbers are placed in parentheses for reference.

**53.101 FUNDAMENTALS OF MATHEMATICS .....3 sem. hrs.**

Designed to convey an appreciation of a selection of mathematical applications in modern civilization while increasing the student's competence in the mathematics of everyday living.

**53.111 COLLEGE ALGEBRA..... 3 sem. hrs.**

An introductory development of logic and sets forms, the foundation for the study of counting techniques and probability spaces.

**53.112 TRIGONOMETRY ..... 3 sem. hrs.**

The study of natural trigonometric ratios and applications, extended to circular functions.

**53.112 (110) PRE-CALCULUS ..... 4 sem. hrs.**

Elementary algebraic functions and relations; exponential and logarithmic functions; circular functions and inverse functions.

**53.117 MATRIX ALGEBRA ..... 3 sem. hrs.**

Computational aspects of linear algebra for use in problem solving in various non-mathematical subject matters.

**53.118 COLLEGE ALGEBRA II ..... 3 sem. hrs.**

Application of finite algebraic techniques and probability spaces to various social and business problems.

*Prerequisite: 53.111.*

**53.121 (211) CALCULUS I ..... 4 sem. hrs.**

Study of the cartesian plane, functions, limits and continuity; the derivative, differentials and anti-derivatives.

**53.122 (212) CALCULUS II ..... 4 sem. hrs.**

Study of the definite integral and application; conic sections; differentiation of elementary transcendental functions; the indefinite integral and techniques of integration.

*Prerequisite: 53.121.*

**53.123 ESSENTIALS OF CALCULUS ..... 3 sem. hrs.**

The basic computational concepts of elementary calculus, differentiation and integration, as used in non-physical science applications.

**53.141 (116) INTRODUCTORY STATISTICS ..... 3 sem. hrs.**

Reading, interpreting and constructing tables of statistical data; statistical measure; application of basic skills of statistics.

*Prerequisite: 53.111.*

**53.171 (241) INTRODUCTION TO COMPUTER PROGRAMMING ..... 1 sem. hr.**

An introduction to mathematically-oriented computer programming using the Fortran language with examples written and executed on the college computer.

**53.201 (231) THEORY OF ARITHMETIC ..... 3 sem. hrs.**

The language of sets; the four elementary operations through the



real number system; elementary theory of numbers.  
*Prerequisite: For Elementary Education majors only.*

**53.202 (232) ALGEBRAIC AND GEOMETRIC STRUCTURES ..... 3 sem. hrs.**

Informal geometry, including area and volume. A non-rigorous examination of groups, rings, and fields.  
*Prerequisite: 53.201.*

**53.203 (246) FIELD WORK IN MATHEMATICS ..... 3 sem. hrs.**

Instruments used in the field are the slide rule, angle mirror, hysometer, clinometer, plane table, vernier, transit; scale drawing.

**53.211 (321) INTRODUCTION TO MODERN ALGEBRA.....**

Modern algebra and its concepts and terminology. Subjects discussed include sets, rings, fields, groups, relations, and functions.  
*Prerequisite: 53.121.*

**53.212 (322) LINEAR ALGEBRA ..... 3 sem. hrs.**

Study of vectors and n-dimensional vector space; determinants, matrices, linear transformations, quadratic forms, and applications in 3-space.

**53.221 (311) INTERMEDIATE CALCULUS ..... 4 sem. hrs.**

Study of polar coordinates, parametric equations, vectors in the plane and space, improper integrals; partial differentiation; multiple integration; series and sequences.  
*Prerequisite: 53.122.*

**53.231 (222) COLLEGE GEOMETRY ..... 3 sem. hrs.**

Elementary geometry from an advanced standpoint. Incidence geometry in planes and space, geometric inequalities, properties of the triangle, the quadrilateral, the circle and sphere.

**53.241 (221) PROBABILITY AND STATISTICS ..... 3 sem. hrs.**

Descriptive and inferential statistics with emphasis on probabilistic distribution. Practical training in the calculation of various statistical measures obtained in the laboratory.

**53.271 ALGORITHMIC PROCESSES FOR COMPUTERS ..... 3 sem. hrs.**

Properties of algorithms; languages used in describing algorithms; applications of a procedure-oriented language (Fortran) to problem-solving.

**53.311 (331) ALGEBRA FOR SECONDARY SCHOOL TEACHERS ..... 3 sem. hrs.**

Topics of elementary algebra from an advanced viewpoint. Consideration will be given to topics of contemporary school mathematics programs.  
*Prerequisite: Ed. 65.352.*

**53.312 MODERN ALGEBRA II..... 3 sem. hrs.**

An extension of the study of abstract mathematical systems, including Euclidean domains, polynomials, field extensions, finite groups, and Galois Theory.

*Prerequisite: 53.211.*

**53.322 (312) DIFFERENTIAL EQUATIONS..... 3 sem. hrs.**

Study of elementary ordinary differential equations; infinite series and power series, and La Place transforms.

*Prerequisite: 53.221.*

**53.331 (332) MODERN GEOMETRY ..... 3 sem. hrs.**

Euclidean and various non-Euclidean geometries and their development from postulate systems.

**53.341 ADVANCED STATISTICS..... 3 sem. hrs.**

Emphasis on continuous probability spaces, statistical distributions, and applications of statistics.

*Prerequisite: 53.221, 53.241.*

**53.371 COMPUTER ORGANIZATION..... 3 sem. hrs.**

Computer components and their organization; compiler and assembly systems; input/output; subroutines and macros.

**53.411 (422) INTRODUCTION TO GROUP THEORY ..... 3 sem. hrs.**

Fundamentals of group theory. Topics included are groups and related systems, normal subgroups and homomorphisms, Abelian groups, permutation groups, automorphisms, and free groups.

*Prerequisite: 53.312.*

**53.421 (411) ADVANCED CALCULUS..... 3 sem. hrs.**

Differential and integral calculus of functions and transformations.

*Prerequisite: 53.221.*

**53.422 (412) COMPLEX VARIABLES ..... 3 sem. hrs.**

Presentation of theory through the differential and integral calculus of analytic functions, residues, and conformal transformations, with applications.

*Prerequisite: 53.221.*

**53.451 (421) INTRODUCTION TO TOPOLOGY ..... 3 sem. hrs.**

Fundamentals of general topology. Topics included are elementary set theory, topological spaces, mappings, compactness, product and metric spaces, nets and convergence.

*Prerequisite: 53.221.*

**53.461 (431) NUMBER THEORY..... 3 sem. hrs.**

Theory of numbers. Topics included are Euclidean algorithm,

congruences, continued fractions, Gaussian integers, and Diophantine equations.

*Prerequisite: 53.211.*

**53.471 (432) ELEMENTARY NUMERICAL ANALYSIS.....3 sem. hrs.**

A computer-oriented analysis of algorithms of numerical analysis. Topics discussed include non-linear equations, interpolation and approximation, differentiation and integration, matrices, and differential equations.

*Prerequisite: 53.221.*

**53.472 MATRIX COMPUTATION.....3 sem. hrs.**

Computer-oriented techniques applied to inversion of matrices; diagonalization of matrices; band matrices; and the associated solution of linear algebraic equations.

## PHYSICS

Professors Halbert F. Gates (Chairman), David J. Harper; Associate Professors Herbert H. Reichard, Tobias F. Scarpino. David A. Superdock; Assistant Professors P. Joseph Garcia, M. Gene Taylor, Stephen G. Wukovitz.

Arts and Sciences major for the B.A. degree:

Chemistry 52.111, 112; Mathematics 53.121, 122, 221, 322; Physics 54.211, 212, 310, 311, 314; 12 semester hours elected from other Physics courses numbered above 300.

Recommended: Mathematics 53.241.

Arts and Sciences major for the B.S. degree:

Chemistry 52.111, 112; Mathematics 53.121, 122, 171, 221, 322; 3 semester hours chosen from Mathematics 53.212, 422, 471; Physics 54.211, 212, 310, 311, 314; at least 18 semester hours elected from other Physics courses numbered above 300.

Note: Requirements for the major for the B.S. in Ed. degree are found in the section on Secondary Education, School of Professional Studies.

## COURSES

(Code 54)

Courses marked † may be applied toward General Education.

**54.101 BASIC PHYSICAL SCIENCE .....3 sem. hrs.**

An introductory integration of concepts and principles from chemistry, physics, and astronomy with some consideration of the philosophy, methods, and applications of science. For non-scientists. 2 lecture, 2 lab-discussion/week.



**54.103 PRINCIPLES OF PHYSICAL SCIENCE I †..... 3 sem. hrs.**

A laboratory-centered “discovery” type course in integrated physical science. Especially recommended for elementary teachers. Emphasizes the development of theoretical models to correspond with experience. Mechanics, heat, kinetic theory, x-rays. 4 hour lab-discussion/week.

**54.104 PRINCIPLES OF PHYSICAL SCIENCE II † ..... 3 sem. hrs.**

A continuation of 54.103. Electricity, gravitation, astronomy, atomic theory, and chemical bonding. 4 hour lab-discussion/week.  
*Prerequisite: 54.103 or consent of instructor.*

**54.111 INTRODUCTORY PHYSICS I † ..... 4 sem. hrs.**

An intuitive approach to selected topics presented for the student not intending to specialize in physics or chemistry. Mechanics, heat, kinetic molecular theory of gases, wave motion, and sound. 3 class, 3 laboratory/week.

**54.112 INTRODUCTORY PHYSICS II † ..... 4 sem. hrs.**

A continuation of 54.111. Electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, and nuclear and particle physics. 3 class, 3 laboratory/week.  
*Prerequisite: 54.111 or consent of instructor.*

**54.211 GENERAL PHYSICS I † ..... 4 sem. hrs.**

A rigorous and analytical introductory treatment, using calculus, appropriate for physical science or mathematics majors. Mechanics, the physics of fluids, kinetic theory, heat, and thermodynamics. 3 class, 3 laboratory/week.  
*Prerequisite: Math 53.211 or concurrent registration.*

**54.212 GENERAL PHYSICS II † ..... 4 sem. hrs.**

A continuation of 54.211. Wave motion, sound, geometrical and

physical optics, electricity, and magnetism. 3 class, 3 laboratory/week.  
*Prerequisite: Math 53.212 or concurrent registration; Phys 54.211, or 54.111 with consent of instructor.*

**54.225 DEMONSTRATIONS IN THE PHYSICAL SCIENCES.....3 sem. hrs.**

Theory, design, and presentation of demonstration experiments for the teaching of the physical sciences, including some attention to specialized audio-visual media. Special consideration of apparatus for new curricula such as PSSC, CHEM Study, HPP, ESCP, and IPS. 2 class, 2 laboratory/week.  
*Prerequisite: Phys 54.112; Chem. 52.112; or their equivalent.*

**54.310 MODERN ATOMIC PHYSICS †.....4 sem. hrs.**

Application of the "modern" atomic concepts of quantum theory, wave mechanics, and relativity to appropriate topics such as the electron, nuclei, atomic and molecular structure, x-rays, photoelectric effect, and scattering. 3 class, 3 laboratory/week.  
*Prerequisite: Phy 54.212, or 54.112 with consent of instructor.*

**54.311 MECHANICS.....3 sem. hrs.**

Statics and dynamics of single particles and particle systems.  
*Prerequisites: Phy 54.212, or 54.112 with consent of instructor; Math 53.311 or concurrent registration.*

**54.314 ELECTRICITY AND MAGNETISM.....4 sem. hrs.**

Electric and magnetic fields, potential, dielectric properties, electric circuits, electromagnetic induction, and magnetic properties of matter, with a brief introduction to electromagnetic waves. 3 class, 3 laboratory/week.  
*Prerequisites: Phy 54.212, or 54.112 with consent of instructor; Math 53.311.*

**54.315 ELECTRONICS †.....4 sem. hrs.**

Theory and application of semiconductors and vacuum tubes with special emphasis on circuitry. Study of basic electronic instrumentation as related to the gathering, processing, and display of scientific data in any discipline. 3 class, 3 laboratory/week.  
*Prerequisite: 54.112 or 54.212.*

**54.318 OPTICS.....4 sem. hrs.**

A combination of geometrical optics including lens theory with physical (wave) optics including diffraction, interference, polarization. lasers, and coherent light. 3 class, 3 laboratory/week.  
*Prerequisite: 54.212 or 54.112 with consent of instructor.*



**54.420 VIBRATIONS AND WAVES.....3 sem. hrs.**

Simple harmonic, damped, and forced oscillations. Propagation of waves in three dimensions including reflection, refraction, superposition, diffraction, and interference. Application of general principles to acoustic, fluid, mechanical, matter, and electromagnetic waves.

*Prerequisites: Phys 54.311; Math 53.311.*

**54.421 SOLID STATE PHYSICS.....3 sem. hrs.**

Physical properties of matter in the solid state. Basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semiconductors, band theory, and the p-n junction. Dielectric and magnetic properties of matter.

*Prerequisites: Phy 54.312, 54.310; Math 53.312.*

**54.422 THERMODYNAMICS .....3 sem. hrs.**

Concepts and principles of classical thermodynamics. Thermodynamics of simple systems. Achievement and measurement of low temperatures. Introduction to kinetic theory.

*Prerequisites: Phys 54.212 or 54.112 with consent of instructor; Math 53.311.*

**54.480 HISTORY OF PHYSICAL SCIENCE †.....3 sem. hrs.**

An account of the development of physical science from the time of Copernicus to the present with attention to the nature of scientific investigation, assumptions, constructs and models, and the interaction of science with other thinking.

*Prerequisites: Phys 54.112; Chem 52.112; or their equivalent.*

**54.490 SEMINAR IN PHYSICS..... 1 sem. hr.**

**54.491 INDEPENDENT STUDY ..... 1-3 sem. hrs.**

An investigation of an area of special interest and value to the student, under the direction of a faculty member, and following a plan approved in advance by the department chairman. May be partly interdisciplinary and may involve limited experimental work.

**54.493 INDEPENDENT RESEARCH..... 1-3 sem. hrs.**

An application of theoretical and/or experimental research methods to a special problem and the preparation of a report. May be interdisciplinary. A plan acceptable to the student and to a supervising faculty member must be approved in advance by the department chairman.

## MARINE SCIENCE

(Code 55)

The courses in Marine Sciences are offered during summers in the Marine Science Consortium conducted by a number of Pennsylvania colleges. The courses are acceptable for elective credit in majors in Biology and Earth Sciences. Details may be secured from Doctor W. R. Frantz, Acting Director of the Marine Science Consortium, Bloomsburg State College.

55.110—INTRODUCTION TO OCEANOGRAPHY	3 sem. hrs.
55.211—FIELD METHODS IN OCEANOGRAPHY	3 sem. hrs.
55.221—INVERTEBRATE ZOOLOGY	3 sem. hrs.
55.241—MARINE BIOLOGY	3 sem. hrs.
55.260—MARINE ECOLOGY	3 sem. hrs.
55.331—CHEMICAL OCEANOGRAPHY	3 sem. hrs.
55.342—MARINE BOTANY	3 sem. hrs.
55.343—ICHTHYOLOGY	3 sem. hrs.
55.362—MARINE GEOLOGY	3 sem. hrs.
55.364—PHYSICAL OCEANOGRAPHY	3 sem. hrs.
55.420—MARINE MICROPALAEONTOLOGY	3 sem. hrs.
55.457—MARINE GEOPHYSICS	3 sem. hrs.
55.458—EXPLORATION METHODS IN MARINE GEOLOGY	3 sem. hrs.
55.500—PROBLEMS IN MARINE SCIENCE	1-3 sem. hrs.



# 8. SCHOOL OF PROFESSIONAL STUDIES

## 8.1 ORGANIZATION AND FUNCTIONS

The School of Professional Studies administers curricula in Teacher Education, Public School Nursing and Medical Technology, and offers the courses in education, special education, communication disorders and nursing.

There are five departments which offer courses in professional education and administer teacher education programs for elementary and secondary schools. Two of these departments, the departments of Special Education and Communication Disorders constitute a division, the Division of Human Resources and Services.

## 8.2 TEACHER EDUCATION

### 8.2.1 GENERAL INFORMATION

#### Accreditation of Teacher Education

The College is accredited by the National Council for the Accreditation of Teacher Education (NCATE). All teacher education programs outlined in this catalogue have been approved for teacher certification by the Pennsylvania Department of Education.

#### Scope of Teacher Education

Programs are offered for preparation of teachers for elementary schools, teachers of academic subjects in secondary schools, teachers in special education, teachers of communication disorders and teachers of business education. The Business Education program is administered in the School of Business; the other teacher education programs are administered in departments of the School of Professional Studies.

#### Degree

Each of the undergraduate programs for teacher education outlined in this catalogue leads to the degree, Bachelor of Science in Education (B.S. in Ed.).

#### Teacher Certification

The completion of one of the approved programs in

teacher education is prerequisite to institutional recommendation for a teacher's certificate. Upon recommendation, an initial certificate is granted by the Commonwealth of Pennsylvania.

The initial certificate is designated as Instructional Level I; it is valid for three years and may be renewed for three additional years upon completion of twelve semester hours of college credit beyond the baccalaureate and certification of three years of successful teaching. A Level I certificate is not subject to renewal beyond a total of six years. A permanent certificate, Level II, is issued upon certification of three years of successful experience under Level I and the completion of a minimum of twenty-four semester hours of post-baccalaureate course work (the twenty-four semester hours may include the twelve semester hours required in case the Level I certificate was renewed).

An Instructional Level III certificate will be issued to a teacher after five years of successful teaching experience provided a Master's degree has been earned in the field of initial certification.

The programs offered at Bloomsburg State College for Level I certification are:

Business Education—Accounting, Secretarial, General Elementary Education.

Secondary Education—Biology, Chemistry, Earth and Space Science, English, French, General Science, German, Mathematics, Physics, Social Studies, Spanish, Speech.

Special Education—Teaching of Mentally Retarded Communication Disorders—Speech Correction.

### Reciprocity of Teachers' Certificates

Pennsylvania is a party to the *Interstate Agreement on Qualifications for Educational Personnel* which provides that holders of Pennsylvania certificates are eligible for certificates in the other states which are parties to the agreement. Currently, there are twenty-three such states.

### Admission to Teacher Education

Students who wish to take teacher education curricula in the School of Professional Studies enroll initially in the School of Arts and Sciences where they may schedule courses in harmony with the requirements of the program they wish to follow. In due course the students apply for admission to





teacher education; if admission is granted they will transfer their enrollment to the School of Professional Studies. Usually, the screening for admission to teacher education takes place after the student has completed 32 or more semester hours and has taken the Sophomore Field Experience intended to help him to assess his decision. Scholarship and pertinent personal attributes are weighed in determining admission to teacher education; the criteria reflect the responsibility of a college whose recommendation is a sufficient basis for the issuing of a teacher's certificate.

### **Retention in Teacher Education**

Admission to teacher education is equivalent to candidacy for the degree, Bachelor of Science in Education. Candidacy for this degree is revoked in case of failure to maintain the required Quality Point Average and may be revoked for other sufficient reason. If candidacy is revoked but the student is otherwise eligible to remain in the College he is transferred to the School of Arts and Sciences; in this case he must reapply for admission to teacher education if he wishes to be reinstated.

### **Field Experience**

Students in Teacher Education are required to engage in a Sophomore field experience during which they work in and observe the educational process in a school of their choice. It is intended that this experience will help the student decide

before the Junior year whether he wishes to follow a career in teaching. Participants are exposed to many aspects of teaching and to the operation of the whole school, thus providing experience that should increase the relevancy of course work in professional education.

Other field experiences in addition to student teaching are participated in as part of certain courses in professional education; these may take the form of field trips, observations, and micro-teaching.

### **Student Teaching**

Pre-professional teacher education culminates in student teaching for a semester in public schools of Pennsylvania.

Teacher education students who are in good standing are assigned to student teaching during the first or second semester of their senior year. They are placed according to the availability of qualified cooperating teachers in their subject area and the willingness of schools with programs approved by the College to cooperate with the College in its program in Teacher Education. Students should be prepared to accept assignments in any of the student teaching centers.

The student teaching semester is divided into two eight-week periods; this provides an opportunity for students to teach at two grade levels and frequently in two socio-economic environments.

Because of the constantly changing educational and socio-economic scene, flexibility of format is maintained in the student teaching program.

### **Student Teaching Centers**

The College selects its student teaching centers and cooperating teachers in urban, suburban, and rural areas. Students in Elementary Education are assigned to central Pennsylvania, suburban Philadelphia, and certain inner-city locations. Students in Secondary Education may be assigned to teach in central Pennsylvania, suburban Philadelphia, or in the cities of Philadelphia and Harrisburg. Business Education student teaching centers are located in the Bloomsburg, Allentown, and Williamsport areas. Students in the Division of Human Resources and Services are assigned to the White Haven State School and Hospital, Selinsgrove State School and Hospital, and to public schools located in central and southeastern Pennsylvania.

## 8.2.2 ELEMENTARY EDUCATION CURRICULUM

The curriculum in elementary education is designed to prepare for beginning teaching positions in the elementary schools. The curriculum consists of four sets of courses as follows:

**A. General Education.** (See Section 6.3)

**B. Academic Background courses:** (A teacher in the elementary school must be prepared to teach many subjects. To provide the background, the curriculum requires a broad distribution of academic background courses; frequently, these may be elected from courses which are designated as General Education courses and therefore may be counted also toward the General Education requirement.) Mathematics, 6 semester hours; Biology, 3 semester hours; Chemistry or Physics or General Physical Science, 3 semester hours; Elective credit in science or mathematics, 3 semester hours; Psychology 48.101; fifteen semester hours elected from three of the disciplines listed as Social Science in Section 6.3; fifteen semester hours elected from at least three disciplines listed as Humanities in Section 6.3, including at least three semester hours in English.

**C. Professional Education and Elementary Specialization.** (These courses are intended to develop knowledge of the nature of the child, the nature of the school, the learning process, general methods of teaching and methods of teaching particular subjects, and provide student teaching experience.)

### PSYCHOLOGY

48.211 - Child Psychology

48.271 - Educational Psychology

### EDUCATION

60.393 - Social Foundations of Education

62.371 - Teaching of Reading

62.395 - Curriculum and Instruction in the Elementary School

62.397 - Science and Mathematics in the Elementary School

62.401 - Student Teaching in the Elementary School

### ELECTIVE

Nine semester hours must be elected from the following courses:

Art 30.305 - Children's Art

English 20.316 - Children's Literature

Music 35.311 - Music in the Elementary School

HPE 05.311 - Methods and Materials in Elementary School Health and Physical Education

Education 62.321 - Early Childhood Education

D. **Academic Concentration.** Each student is required to select an area of academic concentration in which he takes eighteen semester hours. This is intended to develop scholarship in one discipline which contributes depth to a liberal education and gives a background in a single subject that may make the student a potential leader and resource person in the teaching of that subject in the elementary school.

The student should choose as the area of concentration a subject in which he has strong interest. The concentration may be selected from the following: Art; Biology; Economics; English; French; Geography; German; Speech; Sociology; History; Mathematics; Music; Philosophy; Political Science; Spanish; Social Studies; Psychology; Physical Sciences; Exceptional Children; Health and Physical Education.

The selection of courses for the academic concentration is subject to advisement and approval by the department in which the concentration is taken as well as by the student's curriculum adviser. Certain of the departments specify eighteen semester hours of courses which are prerequisite to departmental approval; the student, therefore, is urged to consult with the department in advance of registration for the first courses intended to satisfy the Concentration requirement. The department may designate a departmental adviser for consultation with respect to the academic concentration.

The academic concentration has no significance for teacher certification.

### 8.2.3 SECONDARY EDUCATION CURRICULA

The Secondary Education Curriculum is planned to offer academic, cultural and professional experiences significant to the personal and professional competence of a beginning teacher of a subject area in the secondary schools.

The curriculum requirements comprise General Education, Professional Education and the Subject Area Specialization, as follows:

A. **General Education.** (Section 6.3)

B. **Professional Education** (*See course descriptions for prerequisites to these courses.*)

Education 60.393—Social Foundations of  
Education..... 3 sem. hrs.

Psychology 48.271—Educational Psychology ..... 3 sem. hrs.

Education 65.396—Curriculum and Instruction ..... 6 sem. hrs.

Education 65.402—Student Teaching..... 12 sem. hrs.

C. **Area of Specialization.** Each major (or area of specialization) is designed to develop scholarship basic to teaching the subject and, to a degree governed by the limits of time and the discrimination of the student in choosing electives, basic to graduate study. The requirements for each area of specialization follow:

## BIOLOGY

Biology 50.210, 220, 332, 351;  
Chemistry 52.111, 52.211, 212;  
Mathematics 53.113;  
Fifteen semester hours elective in biology, including 6 semester hours in field courses.  
Physics is recommended; students who plan to enter graduate study should take both 54.111 and 54.112.

## CHEMISTRY

Chemistry 52.111, 112, 222, 231, 311, 312;  
Physics 54.211, 212;  
Mathematics 53.121, 122, 221;  
Chemistry 52.421 or 424 or Physics 54.310;  
Biology 50.101, 111, or 50.210 or 50.220.

## EARTH AND SPACE SCIENCE

Mathematics 53.112, 113;  
Physics 54.111;  
Chemistry 52.111;  
Physics 54.112 or Chemistry 52.112;  
27 semester hours in courses chosen from Earth Science 51.101, 102, 253, 255, 259, 365, 367, 369, 451, 468, 475.

## ENGLISH

English 20.220, 221;  
English 20.222 or 20.223;  
English 20.251, 260, 302, 312;  
English 20.312 or 20.311 or 20.411;  
Twelve semester hours in additional elective courses in English.

## FRENCH

French 10.103, 104, 201, 202, 211, 212;  
Twelve semester hours in French literature;  
MLA examination in French.  
Students whose placement tests exempt them from either or both courses, 10.103, 104, will substitute advanced elective courses in French.

## GENERAL SCIENCE

Biology 50.101, 102, 210, 351;  
Chemistry 52.111, 112;  
Physics 54.111, 112;  
Earth Science 51.101, 253, 255, 259;  
Mathematics 53.111, 112;  
Elective courses, 11 semester hours minimum, from one or more of the areas of Biology, Earth Science, Physics, Chemistry, or Mathematics.



## GEOGRAPHY AND EARTH AND SPACE SCIENCE

Mathematics 53.112, 113;

Physics 54.111;

Chemistry 52.111;

Physics 54.112 or Chemistry 52.112;

Earth Science: 15 semester hours elected from 51.101, 102, 253, 255, 259, 365, 367, 369, 451, 468;

Geography: 15 semester hours chosen from three groups with at least 3 semester hours but no more than 6 semester hours in each group: Group I — 41.101, 125, 253, 256, 354; Group II — 41.102, 213, 221, 258, 310, 324, 462, 463, 492; Group III — 41.321, 333, 343, 344, 345, 346.

## GERMAN

German 11.103, 104, 201, 202, 211, 212;

Twelve semester hours in German literature;

M.L.A. examination in German.

Students whose placement tests exempt them from either or both courses, 11.103, 104, will substitute advanced elective courses in German.

## MATHEMATICS

Mathematics 53.121, 122, 211, 221, 231, 241;

Four courses to be elected from 53.117, 171, 212, 271, 311, 312, 322, 331, 341, 371, 411, 421, 422, 451, 461, 471, 472.

Recommended courses: Physics 54.211, 212.

## PHYSICS

Physics 54.211, 212, 310, 311, 314;

Six semester hours elective in physics courses numbered higher than 54.212;

Chemistry 52.111, 112;

Mathematics 53.121, 122, 221, 322.

Recommended courses: Biology 50.210, 50.220, Earth Science 51.101, 253, Mathematics 53.171.

## COMPREHENSIVE SOCIAL STUDIES

The Social Studies Specialization requires 27 semester hours in prescribed core courses and the completion of one of seven specialization options.

Core Courses: Anthropology 46.200;

Economics 40.211, 40.212;

Geography 41.101, 41.102;

History 42.112 or 42.113;

History 42.203 or 42.204;

Political Science 44.101, 44.161;

Sociology 45.211.

### Specialization Options:

Social Problems - Economics

Political Science 44.366 or Sociology 45.213;

Economics 40.413, 40.422;  
Twelve semester hours elective in Economics.

#### Social Problems - Geography

One Course from Geography 41.125, 253, 256, 354, Earth Science  
51.101, 102, 255, 259;  
One course from 41.213, 221, 310, 324, 358, 463;  
One course from 41.321, 333, 343, 344, 345, 346;  
Nine semester hours elective in Geography;  
Three semester hours elective in Economics, or Geography, or  
Sociology or Political Science or History.

#### Social Problems - History and Government

One course in United States History;  
One course in European History;  
One Course in history of the non-western world;  
One course from Political Science 44.326, 429, 336, 437, 446, 448,  
351, 453, 458;  
One course from 44.363, 366, 368, 371, 373, 181, 383, 487;  
Six semester hours elective in History and/or Political Science.

#### Social Problems - Political Science

18 semester hours distributed among four groups with at least three  
semester hours in each group: Political Theory, 44.405, 409,  
418, 492; American Government and Politics, 44.326, 336,  
351, 429, 437, 446, 448, 452, 458; Foreign Governments and  
Politics, 44.363, 366, 368, 371, 373; International Politics,  
44.181, 383, 487.  
3 semester hours elective in Economics or Sociology or History of  
Geography.

#### Social Problems - Sociology

Political Science 44.366 or 44.383;  
Sociology 45.213, 45.315;  
Sociology 45.316 or 45.318;  
Nine semester hours elective in Sociology.

#### History - Broad Approach

History 42.398;  
Minimum of one course from each of the following groups:

Ancient to Early Modern  
Modern Europe  
Non-western World  
United States

Fourteen semester hours elective in history; Six semester hours elective  
in two of the following: Economics, Sociology, Political  
Science, Geography, Philosophy.

### History - Concentrated Approach

History 42.398;

Fifteen semester hours selected in a concentration in European or Non-western World, or United States History;

Six semester hours elective in history apart from the concentration.

### SPANISH

Spanish 12.103, 104, 201, 202:

Two courses chosen from 12.210, 211, 410;

Twelve semester hours in Spanish literature;

M.L.A. examination in Spanish.

Students whose placement tests exempt them from either or both courses, 12.103, 104, will substitute advanced elective courses in Spanish.

### SPEECH

Speech 25.103, 105, 208, 231, 241, 321;

Special Education 70.451;

Twelve semester hours elective in Speech;

3 semester hours elective in Speech or Communication Disorders, or English.

### COACHING

The following courses are recommended to be elected by students who expect to coach athletics in addition to teaching in their field of specialization: Health and Physical Education 05.242, 05.409; one or two courses from 05.251, 252, 253; two courses from 05.256, 257, 258. Completion of these courses does not lead to certification.

## 8.3 DIVISION OF HUMAN RESOURCES AND SERVICES

### Purpose

This Division includes the Department of Special Education and the Department of Communication Disorders. It has been designated by the Pennsylvania Department of Education for preparation of teachers of the Mentally Retarded and in Speech Pathology. Programs in Education of the Deaf and Learning Disabilities are being developed but are not as yet approved. Certification in the approved programs is granted upon completion of the curricula and approval of the faculty.

### Equipment and Facilities

The Center for Learning and Communication Disorders, located in Navy Hall, is the clinical training and public service facility of the Division of Human Resources and Services. Students are given opportunities to observe the faculty pro-

viding evaluative and therapeutic services and to gain practical experience in providing therapy for children and adults. Evaluative and therapeutic services in Audiology, Speech Pathology, School Psychology, Learning Disabilities and Parent Counseling are available.

The Center's facilities include individual therapy rooms equipped with observation windows; a hearing suite - equipped with a pure-tone and speech audiometers, a Bekesy audiometer, and a psycho-galvanometer; a Communication Science Laboratory equipped for basic study and experimentation; phonographs, auditory training units, desk and individual model hearing aids, language masters, Science Research Associates Reading Laboratories, tachistoscope, a primer typewriter, a collection of basal reading series, and a large supply of diagnostic, evaluative, curriculum and workshop materials.

The Division maintains a professional library with holdings pertaining to the areas of Divisional interest. The Department of Special Education has closed circuit TV equipment used for video-taping of professional programs, public school classes, clinical situations and student practicum work; these are viewed by college classes and used for student self-analysis.

### **Clinical Practice and Student Teaching**

Students enrolled in the Teaching of the Mentally Retarded program have the opportunity of participating in practicum with the mentally retarded in carefully supervised and graded special classes. After completion of the course work, students participate in full-time student teaching programs in two separate settings for nine weeks each.

Those enrolled in Communication Disorders acquire their initial clinical experience while they are still on campus. Upon completion of course work and clinical practice on campus, students are placed for two different experiences, each lasting nine weeks, working full time with a qualified speech clinician in a school clinic.

Student teachers and clinicians in the Division are assigned to the White Haven School and Hospital, the Selinsgrove State School and Hospital, Geisinger Medical Center, and to the public schools in Chester, Columbia, Cumberland, Lancaster, Lycoming, Montgomery, Montour, Northampton, Northumberland, Berks, Lehigh, Bucks, Luzerne, Snyder, Sullivan, and Centre counties.

### 8.3.1 DEPARTMENT OF SPECIAL EDUCATION

The Department of Special Education offers one certification program for teachers of Mentally Retarded children, an area of concentration for students in Elementary Education and the courses and experiences which support these curricula.

#### CURRICULUM FOR TEACHING THE MENTALLY RETARDED

- A. General Education (See Section 6.3)
- B. Academic Background Courses: Mathematics 53.231; Psychology 48.101, 48.260; Political Science 44.211; Sociology 45.200 or 45.211; English 20.316; Speech 25.103; one course selected from History 42.203, 42.204, 42.205; three semester hours in biology; three semester hours in geography; three semester hours in physics.  
(A number of these academic background courses are designated by the departments as applicable to the General Education requirements. These may be elected by the student in partial fulfillment of that requirement.)
- C. Professional Education and related courses: Education 60.393, 62.371, 62.397; Psychology 48.211, 48.271; 48.331 or 48.416; Music 35.311; Health and Physical Education 05.420.
- D. Specialization: Psychology 48.321; Special Education 70.201, 451; Teaching Mentally Retarded 71.201, 303, 351, 352, 361, 401, 432.
- E. Free Electives if necessary to complete the minimum of 128 semester hours for graduation.

### 8.3.2 DEPARTMENT OF COMMUNICATION DISORDERS

The objective of this curriculum is to prepare personnel to work in public schools, hospitals, clinics and rehabilitation centers with individuals who are handicapped in speech, hearing and language.

Upon successful completion of the curriculum and recommendation by the College, certification in speech correction is granted by the Pennsylvania Department of Education. The curriculum provides academic and clinical work which constitute part of the prerequisite for the Certificate of Clinical Competence in Speech Pathology or Audiology issued by the American Speech and Hearing Association; additional prerequisites include a master's degree and certain prescribed experience.



Students entering the programs of training of the Department of Communication Disorders subsequent to June 1, 1971 will be required to complete the bachelor's degree plus additional credits toward the master's degree in order to be eligible for recommendation by the College for certification by the Pennsylvania Department of Education.

Students in the Elementary Education curriculum may choose as their area of concentration a sequence, planned and administered by the Department of Communication Disorders, with emphasis upon the Education of the Deaf. These students are advised jointly by the Department of Elementary Education and the Department of Communication Disorders, and their total curriculum leads to certification for elementary schools.

#### CURRICULUM IN COMMUNICATION DISORDERS

- A. General Education. (See Section 6.3)
- B. Professional and related requirements: Communication Disorders 74.152, 251, 252, 253, 276, 351, 352, 376, 402, 452, 460, 461, 467;  
Fifteen semester hours elected with departmental approval from Communication Disorders 74.446, 472, 475, 480, Psychology 48.101, 211, 260, 321, 375, 416, Special Education 70.201, 354, 454, English 20.311, 411.
- C. Elective courses to complete the minimum graduation requirement.

#### 8.4 MEDICAL TECHNOLOGY CURRICULUM

The program in medical technology comprises 98 semester hours of courses in the college followed by one year of clinical study in medical technology at Geisinger Medical Center, Danville, Penna. During the clinical year, the Medical Center provides each student with a stipend and complete health services.

The degree, Bachelor of Science, is conferred upon the completion of the college courses, the clinical work, and the passing of the registry examination.

The course requirements are:

- General Education (See Section 6.3)
- Biology 50.210, 332, 361;  
50.371 or 50.472;
- Chemistry 52.111, 112, 222, 331, 332;
- Physics 54.111;
- Mathematics 53.111 or 53.113;
- Elective courses as needed to complete 98 semester hours.

Certification of the clinical experience and registry examination is accepted for the final 30 semester hours of the 128 semester hour graduation requirement.

## 8.5 PUBLIC SCHOOL NURSING CURRICULUM

A two-year program leading to the degree, Bachelor of Science in Education (B.S. in Ed.), is available for registered nurses who have completed a three-year curriculum in approved schools of nursing and are registered by the State Board of Examiners for the Registration of Nurses in Pennsylvania.

The curriculum requires the completion of sixty semester hours of residence credit at the College as follows:

English 20.101, 102; 20.207 or 20.208;  
History 42.111 or 42.112 or 42.113;  
History 42.203 or 42.204 or 42.208;  
Political Science 44.101 or 44.161;  
Sociology 45.211;  
Biology 50.101;  
Education 60.393, 60.451;  
Psychology 48.101, 48.211, 48.271, 48.331;  
Two courses chosen from Music 35.101, Art 30.101, Mathematics  
53.101, Speech 25.103;  
Nursing Education 69.301, 69.302, 69.304, 69.306, 69.310.

Registered nurses with less than three years preparation for registration are required to pursue additional courses to meet the requirements for the degree.

A registered nurse who desires to enroll in the Degree Curriculum for Public School Nurses should write for application blanks and information to the Director of Admissions, Bloomsburg State College, Bloomsburg, Pennsylvania 17815.

## 8.6 STUDENT AND COMMUNITY SERVICES IN THE SCHOOL OF PROFESSIONAL STUDIES

### Speed Reading

Beginning early in each semester, several sections of speed reading are offered to students on a "first come—first served" basis. Classes are limited to ten students. Announcements appear in the Maroon and Gold. Classes usually are held two or three days a week for six weeks.

## Center for Learning and Communication Disorders

The Center for Learning and Communication Disorders, located in Navy Hall, provides a number of services to the public on an outpatient basis. The Center provides evaluative and testing services related to speech, voice, language, hearing, hearing aid; and educational-psychological evaluations including reading, writing, spelling, mathematics and intelligence. Following evaluation, therapy programs on a regular basis are provided in the following areas: speech, language, auditory training, speech reading, and parent counseling. A fee schedule is available upon request, but no person is denied service because of financial need.

### Reading Clinic

The Reading Clinic, located in Benjamin Franklin Hall, offers diagnostic evaluation of reading skills, including selected standardized reading tests, Lovell Hand-Eye Co-ordination test and tele-binocular examination. After evaluation, remedial clinical instruction is provided if desired, including parent counseling. This is a continuing year-round service for which a fee schedule is available upon request.

## 8.7 COURSE DESCRIPTIONS

### EDUCATION

#### EDUCATIONAL STUDIES AND SERVICES

Professors H. M. Afshar (Chairman), Robert C. Miller; Associate Professors Howard K. McCauley, Jr., Thaddeus Pietrowski, Ray C. Rost, Matthew Zopetti.

### COURSES

(Code 60)

Courses marked † may be used toward General Education.

#### 60.101 INTRODUCTION TO EDUCATION † .....3 sem. hrs.

A survey of education and teaching designed primarily for Arts and Science students who are considering teaching as a profession.

#### 60.301 EDUCATIONAL MEDIA.....2 sem. hrs.

A comprehensive study of communicative media. Laboratory sessions in use of audio-visual materials in education.

*Prerequisite: 60.393; Psychology 48.271.*

**60.311 EDUCATIONAL MEASUREMENTS AND EVALUATION ..... 3 sem. hrs.**

Principles of testing; grading; representative standardized tests; vocabulary of measurement.  
*Prerequisite: Psychology 48.271.*

**60.391 LEARNING AND THE LEARNER ..... 3 sem. hrs.**

Psychological foundations of education: individual differences; learning theories applied to classroom situations; physical and mental growth; personality development and mental hygiene.  
*Prerequisite: Psychology 48.101; Sociology 45.211 or 45.224.*

**60.392 HISTORICAL AND INTELLECTUAL FOUNDATIONS OF AMERICAN EDUCATION † ..... 3 sem. hrs.**

Development of American education in the perspective of history.

**60.393 SOCIAL FOUNDATIONS OF EDUCATION † ..... 3 sem. hrs.**

Social processes underlying education: current social forces; the place of the school in American culture; impact of social stratification; role of the teacher in a period of rapid social change.  
*Prerequisite: Psychology 48.101; Sociology 45.211 or 45.224.*

**60.394 EDUCATION IN URBAN SOCIETY † ..... 3 sem. hrs.**

Systematic study of problems of education in the urban setting. Designed primarily for students who plan to teach in urban schools.

**60.421 CURRICULUM DEVELOPMENT ..... 3 sem. hrs.**

Current curricular offerings of elementary and secondary schools. Emphasis upon philosophical, social, political and technical trends in the community, nation, and the world, and their effect upon the role of the teacher and the school in curriculum development.

**60.431 INDEPENDENT STUDY ..... 3 sem. hrs.**

Admission only with consent of the department chairman.

**60.441 WORKSHOP IN EDUCATION ..... 3-6 sem. hrs.**

Study of selected areas in elementary or secondary education including research by individual students in a special teaching field.  
*Prerequisite: Nine semester hours in education, and teaching experience.*

**60.451 PUPIL PERSONNEL SERVICES IN THE PUBLIC SCHOOL ..... 3 sem. hrs.**

A comprehensive study of pupil personnel services in elementary and secondary schools: school attendance, school health programs, pupil transportation, psychological services, guidance services.

## ELEMENTARY EDUCATION

Professors Royce O. Johnson, Gilbert R. W. Selders, Margaret Sponseller,

Donald A. Vannan; Associate Professors Warren I. Johnson (Chairman), Kenneth A. Roberts, Edward Warden, Lynn A. Watson, William S. Woznek; Assistant Professors Richard J. Donald, Joel E. Klingman, Ann Marie Noakes; Instructor Diana Quatroche.

## COURSES

(Code 62)

### **62.302 METHODS AND MATERIALS IN ELEMENTARY SCHOOL SCIENCE.....3 sem. hrs.**

Emphasis is placed on the major methods and materials used in elementary school science. Includes the environmental experiences of children and new areas where the experiences of children are limited.

*Prerequisite: Physics 54.103; Biology 50.103.*

### **62.321 EARLY CHILDHOOD EDUCATION - KINDERGARTEN.....3 sem. hrs.**

A study of the physical, mental, emotional, and social levels of the kindergarten age child; environmental factors that foster child growth; the kindergarten program set up to meet the needs of this age child and to provide background for later ventures into reading, arithmetic, science, social studies, music, art, literature, physical education and health.

*Prerequisite: Psychology 48.211.*

### **62.322 EARLY CHILDHOOD EDUCATION - NURSERY.....3 sem. hrs.**

A study of the needs of three, four and five year old children and experiences adapted to what is known about growth needs at these age levels. "Operation Head Start" as a critical point in the poverty cycle. Health, social services and education activities which may improve the child's opportunities and achievements.

*Prerequisite: Psychology 48.211.*

### **62.371 TEACHING OF READING IN THE ELEMENTARY GRADES.....3 sem. hrs.**

Developmental reading from readiness through the entire elementary school curriculum.

*Prerequisite: Education 62.393 and Psychology 48.271.*

### **62.372 FOUNDATION OF READING INSTRUCTION.....3 sem. hrs.**

The reading program in the elementary and/or secondary school: comprehension, speed, study skills, library skills, recreation and enrichment, and methods of using information. Development of an elementary or a secondary school reading program required of each student.

*Prerequisite: Psychology 48.271.*

### **62.373 DIAGNOSTIC AND REMEDIAL READING .....3 sem. hrs.**

Diagnostic and remedial procedures emphasizing both standardized and informal techniques. Designed for elementary and/or secondary school teachers.

*Prerequisite: Education 62.371 and/or 62.372.*



**62.375 READING FOR THE SOCIALLY DISADVANTAGED CHILD ..... 3 sem. hrs.**

Methods and materials for the instruction of the disadvantaged child (K-12). Techniques and theories are presented as they may be applied to help the socially disadvantaged child function more adequately in the school environment.

**62.389 INDIVIDUALIZING INSTRUCTION ACTIVITIES IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.**

Designed for elementary education students with junior standing or above. The course emphasizes procedures for helping individuals learn, the informal school concept, and rearranging the elementary classroom into an efficient and effective learning area with emphasis on language arts centers, math centers, science centers, and social studies centers.

**62.395 CURRICULUM AND INSTRUCTION IN THE ELEMENTARY SCHOOL ..... 6 sem. hrs.**

Curriculum study, methods and practices in the language arts, and social studies. Includes educational media.

*Prerequisite: Education 60.393; 60.391 or Psychology 48.271.*

**62.397 SCIENCE AND MATHEMATICS IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.**

Designed to provide prospective elementary teachers with the methods, materials, skills, understandings, and attitudes to help them to meet the needs of children in the areas of science and mathematics.

*Prerequisite: three sem. hrs. in Biology; three sem. hrs. in Physics; six sem. hrs. in mathematics.*

**62.398 MATHEMATICS FOR ELEMENTARY TEACHERS... 3 sem. hrs.**

Mathematical concepts essential in the teaching of contemporary programs in the elementary school.

*Prerequisite: 6 sem. hrs. in mathematics.*

**62.401 STUDENT TEACHING IN THE ELEMENTARY SCHOOL ..... 12 sem. hrs.**

Scheduled on full semester basis with a minimum of 30 hours per week. Opportunities for direct participating experience at two grade levels and in as many areas of the elementary curriculum as possible. Association with carefully selected master teachers.

**62.404 INTERIM TEACHING IN THE ELEMENTARY SCHOOL ..... 3-6 sem. hrs.**

Full-time teaching in the elementary school with an interim certificate under the direction and supervision of the professional staff in cooperation with local school districts.

**62.432 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL..... 3 sem. hrs.**

Current objectives, methods and materials in the area of Social Studies in the elementary school. Psychological and sociological needs of children as they are related to the development of a social studies program in the modern school.

**62.433 LANGUAGE ARTS IN THE ELEMENTARY SCHOOL..... 3 sem. hrs.**

Introduction to the subjects called the language arts. Problems, methods, techniques and materials related to instruction in the several branches of this area of the elementary school curriculum.

**62.442 WORKSHOP, TEACHING SCIENCE IN THE ELEMENTARY SCHOOL ..... 3 sem. hrs.**

Primarily designed for teachers in service. Construction of teaching materials to be used in the classroom, investigation into problems in an inquiry approach, and learning of the basic steps of the scientific methods of problem solving and methods of developing a scientific attitude in children are aspects of the course.

## SECONDARY EDUCATION

Professors Lee Aumiller (Chairman); Associate Professors Wesley E. Blamick, Donald E. Enders, Glenn A. Good, Martin M. Keller, Milton Levin, A. J. McDonnell, Kenneth Whitney, Richard O. Wolfe; Assistant Professor Raymond E. Babineau.

### COURSES

(Code 65)

**65.396 CURRICULUM AND INSTRUCTION IN THE SECONDARY SCHOOL..... 6 sem. hrs.**

The course consists of two parts taught concurrently in a team approach, with each part accounting for three semester hours credit; together they comprise broad studies of secondary school curriculum, educational decision making, instructional method, testing, planning and educational media combined with studies of curriculum and teaching of the student's subject or area of specialization. The student registers for 65.396 and for the appropriate accompanying course from the following list:

- 65.350—Teaching of Business Subjects in Secondary Schools
- 65.351—Teaching of English in the Secondary School
- 65.352—Teaching of Mathematics in the Secondary School
- 65.353—Teaching of Biological Science in the Secondary School
- 65.354—Teaching of Physical Science in the Secondary School
- 65.355—Teaching of Social Studies in the Secondary School

- 65.356—Teaching of Speech in the Secondary School
- 65.357—Teaching of Geography in the Secondary School
- 65.358—Teaching of Spanish in the Secondary School
- 65.359—Teaching of French in the Secondary School
- 65.360—Teaching of German in the Secondary School

*Prerequisites: Psychology 48.101, 48.271; Education 60.393; junior standing in one of the curricula in Secondary Education.*

**65.402 STUDENT TEACHING IN THE SECONDARY SCHOOL ..... 12 sem. hrs.**

Students are assigned to public schools where they work with selected classroom teachers and college supervisors in teaching experiences. Students follow the same schedule and assume the same responsibilities as their cooperating teachers. Further information, including location of off-campus centers is given in Section 8.2.

*Prerequisite: Education 65.396.*

**65.405 INTERIM TEACHING IN THE SECONDARY SCHOOL ..... 3-6 sem. hrs.**

Full-time teaching in the secondary school with an interim certificate, under the direction and supervision of the professional faculty in cooperation with local school districts.

## NURSING

(Code 69)

**69.301 PUBLIC SCHOOL NURSING I ..... 3 sem. hrs.**

Public school nursing as a branch of public health nursing; historical background; fields of responsibility; problems and limitations of the profession; techniques of handling public school health problems.

**69.302 PUBLIC SCHOOL NURSING II ..... 3 sem. hrs.**

A study of physical, emotional, and social problems affecting the health of the school child and the methods that may be employed by home, school, and community in helping to solve health problems; emphasis on the nurse as co-ordinator in the use of local, state, and federal resources.

**69.304 PUBLIC HEALTH NURSING ..... 3 sem. hrs.**

Historical background, fundamental principles, organizational framework, problems of community participation, and trends in public health nursing.

**69.305 NUTRITION ..... 3 sem. hrs.**

A review of basic principles of nutrition with relation to economic factors and cultural food patterns; special emphasis on the nutritional needs of the school-age child.

**69.306 FAMILY CASE WORK.....3 sem. hrs.**

An overview of social welfare and interviewing principles for school nurses. Case histories and interviewing situations are selected for critical discussion to acquaint the student with application of case work methods in school nursing practice.

**69.309 COMMUNITY HEALTH.....3 sem. hrs.**

Facets of community health, including historical background, environmental concern, and methods of control; contemporary and future problems dealing with radiation, air-water pollution, and space.

**69.310 MODERN COMMUNICABLE DISEASES ..... 3 sem. hrs.**

Current practices and the role of the school nurse in communicable disease prevention and control with emphasis on the relationships between physical, socio-economic. and biologic environment.

**69.311 (302) PUBLIC SCHOOL ORGANIZATION  
FOR NURSES ..... 2 sem. hrs.**

The course is designed to prepare the school nurse to function effectively in the public school organization. Relationships with which the nurse is involved in the discharge of her responsibilities.

**SPECIAL EDUCATION**

Professors Emily A. Reuwsaat (Chairman), Andrew J. Karpinski, John M. McLaughlin, Jr.; Associate Professors James T. Reifer, Margaret S. Webber; Assistant Professor Carroll J. Redfern.

**GENERAL COURSES**

(Code 70)

**70.201 EDUCATION OF EXCEPTIONAL CHILDREN.....3 sem. hrs.**

The educational problems of exceptional children. History and philosophy of special education programs for exceptional children.

**70.352 EXPERIENCE WITH EMOTIONALLY  
DISTURBED ..... 1-3 sem. hrs.**

Experience working individually with emotionally disturbed children in a state hospital or a clinic setting.  
*Prerequisite: Permission of the instructor.*

**70.354 EXPERIENCE WITH LEARNING DISABILITIES.... 1-3 sem. hrs.**

Experience working individually with children whose learning disabilities present special educational problems.  
*Prerequisite: Permission of the instructor.*

**70.450 BEHAVIOR DISORDERS.....3 sem. hrs.**

Psychological development of behavior and its effect on the child's school performance. The effect of the school on the child is also discussed as are intervention approaches in educating emotionally disturbed children.

*Prerequisites: Psychology 48.101, 48.271.*

**70.451 SPEECH IMPROVEMENT FOR THE CLASSROOM ...3 sem. hrs.**

An introduction to language and speech problems commonly found among school children; practical methods and attitudes for improvement of communication in the classroom setting. Open to students of all curriculums and in-service classroom teachers.

**70.454 DISORDERS OF WRITTEN COMMUNICATION.....3 sem. hrs.**

An introductory course to enable the clinician or teacher to recognize the functional level of the child, to recognize possible disorders for evaluative referrals, and to play or carry out meaningful, corrective therapy. A review of the developmental processes involved in encoding and decoding orthography, with emphasis placed on the recognition of related disorders.

**70.455 LEARNING DISABILITIES.....3 sem. hrs.**

A study of the characteristics and symptoms of specific learning disorders. Students are introduced to diagnostic and educational procedures used with learning disorders. Emphasis is on perceptual and conceptual factors in the development of language skills.

*Prerequisites: Psychology 48.101, and 48.371.*

**TEACHING THE MENTALLY RETARDED**

(Code 71)

**71.201 INTRODUCTION TO MENTAL RETARDATION.....3 sem. hrs.**

Overview of behavioral and learning characteristics of the mentally retarded. Etiology and environmental aspects of development of the mentally retarded. Observations of special classes; field trips to institutions.

**71.303 CRAFTS FOR ALL LEVELS OF MENTALLY RETARDED.....4 sem. hrs.**

Laboratory experiences with craft activities for use with all levels of the mentally retarded. Analysis of the crafts experience for development of techniques and curricular emphasis and correlation with the total program for the mentally retarded. 6 class hours/week.

*Prerequisite: 71.201.*



**71.351 SPECIAL CLASS METHODS:**  
**Primary and Intermediate Levels..... 3 sem. hrs.**

Organization of instruction for trainable and educable mentally retarded. Curriculum methods and materials for primary and intermediate levels. Observation of special classes and construction of teaching materials.

*Prerequisite: 71.201.*

**71.352 SPECIAL CLASS METHODS:**  
**Secondary Levels ..... 3 sem. hrs.**

A student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of the mentally retarded. Practice in the use of various teaching aids and machines related to student projects in secondary special classes for the mentally retarded.

*Prerequisite: 71.201.*

**71.361 SEMINAR IN TEACHING THE**  
**MENTALLY RETARDED..... 3 sem. hrs.**

Practical problems of teaching special classes for the mentally retarded are considered. Organization and administration of classes, coordination with various personnel serving the students, integration and curriculum problems, facilities, equipment and materials will be discussed. Pennsylvania State School Law and State mandated special services will be presented. Teacher competence and problems pertinent to student teaching will be explored. (May be taken same semester as second methods course.)

**71.375 INDIVIDUAL PROJECT ..... 1-3 sem. hrs.**

Project planned according to interests and needs of the individual student, in any of the following suggested areas: library research, curriculum study, work with individual children, internship in special aspects of education programs. (*Open to seniors only with staff approval.*)

**71.400 WORKSHOP: PROBLEMS AND METHODS IN**  
**SPECIAL EDUCATION..... 6 sem. hrs.**

Investigations are made of recent developments in the education of the educable mentally retarded. Topics will vary according to interest and needs of students. (*For teachers in the field with degrees; not for regular students in the Teaching of the Mentally Retarded curriculum.*)

**71.401 STUDENT TEACHING, M.R..... 12 sem. hrs.**

Thirty hours per week of supervised student teaching experience under the direction of the professional staff in cooperation with local and state school divisions.

*Prerequisite: 71.361.*

**71.403 INTERIM TEACHING IN SPECIAL CLASSES..... 3-6 sem. hrs.**

Full-time teaching with an interim certificate under the direction and supervision of the professional staff in cooperation with local and state schools.

**71.405 WORKSHOP: THE TRAINABLE MENTALLY  
RETARDED.....6 sem. hrs.**

A seminar type workshop designed to give the student an intensive study and understanding of the trainable mentally retarded individual. Study is made of the identification, etiology, characteristics, and programming for these individuals. All phases of training programs along with the latest methods and materials for the trainable mentally retarded will be discussed, demonstrated, and then applied by the student. The course is geared to the practical and functional. (Special program offered as needed.)

**71.432 LANGUAGE ARTS FOR SPECIAL CLASSES.....3 sem. hrs.**

A student-centered workshop approach in analysis of methods, research and philosophies currently in use in the teaching of the language arts to special classes. Practice in the use of various teaching aids and machines related to student projects in language arts applicable to individual needs of children in special classes.

*Prerequisite: Education 62.371.*

## COMMUNICATION DISORDERS

Professors James D. Bryden (Chairman), Margaret C. Lefevre; Associate Professor Benjamin S. Andrews; Assistant Professors Colleen J. Marks, Donald Miller, Richard M. Smith.

## COURSES

(Code 74)

**74.101 CLINICAL VOICE AND DICTION ..... 1 sem. hr.**

Voice production and articulation; individualized guidance with personal speech problems. *A clinic experience planned for any student who seeks to improve his voice and articulation.*

**74.152 VOICE AND ARTICULATION .....3 sem. hrs.**

The mechanical aspects of speech production are studied and principles of speech therapy are illustrated in relation to the students' own performance in terms of voice quality, pitch, articulation, and time elements. Ear-training and self-improvement of prospective clinicians or teachers are emphasized.

**74.201 HISTORY, EDUCATION AND  
GUIDANCE OF THE DEAF.....3 sem. hrs.**

The handicap of hearing impairment is explored with emphasis on the history of educational procedures and guidance in communicative, psychological and vocational habilitation.

**74.251 PHONETICS.....3 sem. hrs.**

International Phonetic Alphabet is used. Students develop competence in reading and transcription of symbols.

**74.252 SPEECH PATHOLOGY I.....3 sem. hrs.**

The neurophysiological bases of language and speech are studied as fundamental to the understanding of pathologies of language and speech.  
*Prerequisite: 74.251.*

**74.253 SPEECH PATHOLOGY II .....3 sem. hrs.**

Evaluative procedures and techniques for identifying communication disorders are outlined. Research findings are explored.  
*Prerequisite: 74.252.*

**74.276 INTRODUCTION TO AUDIOLOGY.....3 sem. hrs.**

The causes, evaluation techniques, and rehabilitative procedures for the various types of hearing problems are explored. Related auditory, speech, psychological, and educational factors are discussed. The roles of parent, educator, and specialist in the rehabilitation program are investigated.

**74.351 CLINICAL METHODS IN COMMUNICATION DISORDERS.....3 sem. hrs.**

Materials and methods applicable to clinical practicum are discussed. Opportunities for observing demonstrations by the staff are provided. Students are required to compose sample lesson plans and evaluation reports. These experiences culminate in closely supervised therapy with milder cases of speech and hearing disorders.  
*Prerequisites: 74.152, 251, 252, 253.*

**74.352 CLINICAL PRACTICUM: COMMUNICATION DISORDERS.....3 sem. hrs.**

Students continue supervised clinical work and are given increasing responsibility and experience with cases of greater complexity.  
*Prerequisite: 74.351.*

**74.376 AUDITORY TRAINING AND SPEECH READING.....3 sem. hrs.**

Current teaching methods for educating children and adults with moderate and severe hearing losses.  
*Prerequisite: 74.251, 276.*

**74.402 CLINICAL FIELD EXPERIENCE ..... 12 sem. hrs.**

A full semester program of 30 hours of speech correction per week is provided for each student. Prospective teachers of the speech and hearing handicapped gain experience by working with professional people in the field.

**74.452 ANATOMY OF SPEECH AND HEARING MECHANISMS .....3 sem. hrs.**

Embryology, anatomy, neurology, and physiology of the larynx and ear are studied. The actual processes involved in human speaking and hearing are explored. A co-operative lecture series is developed for the students by the medical staff at Geisinger Medical Center.  
*Prerequisite: 74.351.*

**74.460 PSYCHO-LINGUISTICS ..... 3 sem. hrs.**

Language is studied as a psychological phenomenon. The nature and acquisition of meaning, and the learning of systems are investigated. The influences of verbal and nonverbal antecedent conditions on both verbal and nonverbal leaning are discussed. Descriptive models of language mediators in behavior.

*Prerequisites: 74.152, 251, 276.*

**74.461 CLINICAL PROBLEMS IN  
COMMUNICATION DISORDERS..... 3 sem. hrs.**

Practical considerations of day to day problems encountered by the speech clinician in clinical and public school programs; Pennsylvania School Law and State mandated special service programs.

**74.462 PROBLEMS IN EDUCATION OF THE DEAF AND  
HEARING IMPAIRED ..... 3 sem. hrs.**

The educational problem of hearing impairment and the functions of teachers in public and private educational settings.

**74.466 ADVANCED CLINICAL PRACTICUM  
(Internship)..... 3 sem. hrs.**

Clinical experience with more complex disorders is provided. Differential diagnostic and therapeutic procedures for use in cases with cerebral palsy, aphasia, auditory impairments, cleft palate, and stuttering. Case studies and research are utilized.

*Prerequisites: 74.351, 352.*

**74.467 PSYCHOLOGY OF SPEECH AND HEARING ..... 3 sem. hrs.**

The developmental aspects of language, normal and abnormal speech, and hearing patterns of individuals are discussed in relation to their personality. Current educational and therapeutic trends and practices are reviewed.

*Prerequisite: 74.351.*

**74.471 SEMINAR IN SPEECH PATHOLOGY ..... 3 sem. hrs.**

Pathological conditions resulting in communication problems are investigated in some detail, and remedial techniques are considered in relation to current research findings. Students are given orientation to various types of clinical settings and to a projection of needs for services.

*Prerequisites: 74.252, 253, 351, 352.*

**74.472 MEASUREMENT OF HEARING LOSS ..... 3 sem. hrs.**

The anatomy and physiology of the hearing mechanisms are studied. Etiology of hearing losses, interpretation of audiometric evaluations and available rehabilitative procedures are discussed. Laboratory experience in the administration of clinical audiometric evaluations is provided.

*Prerequisites: 74.276, 376.*

**74.475 INTRODUCTION TO SPEECH SCIENCE ..... 3 sem. hrs.**

The physical properties of acoustic signals are considered as factors that affect the nature of production and subsequent reception of speech. Phonetic instrumentation is introduced in relation to the analysis and synthesis of speech. The application of principles of speech science to speech therapy and other areas is discussed.

*Prerequisites: 74.152, 251, 253, 276, 376.*

**74.480 INDEPENDENT STUDY AND RESEARCH ..... 1-3 sem. hrs.**

This course permits students to work under faculty guidance, on library study of specified areas or on individual research or learning projects when particular needs cannot be met by registration in regularly scheduled courses. Credit is determined by the nature and scope of the project undertaken.





## 9. SCHOOL OF BUSINESS

Professors: Emory W. Rarig, Dean; Ellen L. Lensing, Cyril A. Lindquist, Francis J. Radice; Associate Professors Willard A. Christian, Bernard C. Dill, Normal L. Hilgar, Clayton H. Hinkel, Margaret E. McCern; Assistant Professors J. Weston Baker, Charles M. Baylor, John E. Dennen, Lester J. Dietterick, Doyle G. Dodson, John E. Hartzel, Margaret Ann Hykes, Kenneth G. Kirk, Jack L. Meiss, Robert P. Yori; Instructors Lane L. Kemler, Lawrence L. Verdekal.

### 9.1 GENERAL INFORMATION

The School of Business offers a curriculum in Business Administration with three options for specialization, and a curriculum in Business Education.

The curriculum in Business Administration is designed to prepare the student for a beginning position in business; the curriculum in Business Education leads to certification as a teacher of business subjects in secondary schools.

Students may enroll in the School of Business as freshmen. During the first year the student pursues basic courses, after which he applies for admission to his specialized curriculum.

### 9.2 THE BUSINESS ADMINISTRATION CURRICULUM

#### Degree.

The degree, Bachelor of Science (B.S.), is conferred upon successful completion of the Business Administration curriculum.

#### Objectives.

The student in Business Administration should aim to develop specialized knowledge and skills applicable to his first employment. He should also consider it important to develop his potential for future growth that may lead to an eventual position of leadership; for this purpose he should seek a modern understanding of business in its relationship to society, of economic forces, of the intellectual processes involved in management decision-making and the modern decision-making tools, and he should be concerned for his personal development in such attributes as intellectual discipline and culture. These concerns should help him determine his choice of elective courses both in general education and in Business Administration subjects.

## Curriculum Requirements.

The curriculum in Business Administration requires the successful completion of five sets of courses.

- A. General Education (See Section 6.3)
- B. Core Courses: Mathematics 53.111; one additional higher level mathematics course; General Business; 90.331; Accounting: 91.221, 222, 323; Information Processing: 92.250; Management: 93.342, 343, 344, 446; Economics: 40.211, 212, 413, 446; Proficiency in typewriting by examination or 94.201 without credit.
- C. Specialization in one of the following areas:

### Accounting

91.321, 322, 421, 422, 423

### General Business Administration

General Business: 90.101; Management: 93.345, 447.

### Business Administration - Economics

General Business: 90.101; Management: 93.445, 446, 447;  
Economics: 40.313, 356, 422, 426.

- D. Elective courses to complete a minimum of 69 semester hours in business and economics, chosen from: Economics 40.313, 333, 346, 412, 415, 422, 426, 446, General Business 90.332, Accounting 91.421, 422, 423, 448, Information Processing 92.252, 350, 452, 454, 456, Management 93.341, 345, 442, 443, 444, 445, 457.
- E. Free electives to meet the total 128 sem. hr. graduation requirement.



### 9.3 BUSINESS EDUCATION CURRICULUM

#### Degree.

The degree, Bachelor of Science in Education (B.S. in Ed.), is conferred upon successful completion of the Business Education curriculum.

#### Certification.

Upon completion of the curriculum and recommendation of the College, the State Department of Education issues an Instructional Level I certificate.

#### Objectives.

The curriculum in Business Education is planned to develop the specialized and professional knowledge and skills necessary for a first position teaching business subjects in secondary schools and vocational-technical schools of the Commonwealth.

#### Admission.

Freshmen who are interested in business education enroll initially as general students in the School of Business. Admission to the Business Education Curriculum is selective; students may apply for admission to the curriculum during their freshman year. High School work in business subjects is not prerequisite to the college program.

**Curriculum Requirements:** The requirements of the curriculum are stated in five sets of courses as follows:

A. **General Education** (See Section 6.3)

B. **Business Education Core courses:** General Business 90.101, 331, 332, 401; Accounting 91.221; Secretarial 94.201, 202, 301; Economics 40.211, 212.

C. **Business Education Specialization.** The student chooses one of the following three specialization:

**Accounting** — General Business 90.334; Accounting 91.222, 321, 322; one course from 91.421, 422, 423; six semester hours from the Elective List below.

**Secretarial** — Secretarial 94.211, 212, 311, 312, 333; Six semester hours from the Elective List below.

General (Secretarial and Accounting) —Accounting 91.222, 321, 322; Secretarial 94.211, 212, 311; General 90.334 or Secretarial 94.333; three semester hours from the Elective List.

Elective List: General 90.334; Accounting 91.421, 422, 423; Information Processing 92.252; Management 93.241, 341, 342; other courses in business may be used upon recommendation of the adviser.

D. Professional Education, Psychology, Student Teaching (The student should supply prerequisites to these courses during the sophomore year.)

Psychology 48.271, Educational Psychology	3 sem. hrs.
Education 65.396, Curriculum and Instruction in the Secondary School, including 65.350 Teaching Business Subjects in the Secondary School.	6 sem. hrs.
Education 65.402, Student Teaching	12 sem. hrs.

E. Free Electives to complete the total graduation requirement of 128 sem. hrs.

## 9.4 COURSES

### GENERAL

(Code 90)

#### 90.101 INTRODUCTION TO BUSINESS ORGANIZATION AND FINANCE .....3 sem. hrs.

Types of business organization; managerial controls utilized in business; financing of business enterprises.

#### 90.241 SALESMANSHIP.....3 sem. hrs.

Principles underlying the sales process; the salesman in relation to his firm, his goods, and his customers; approach, demonstration, and close of individual sales transactions.

#### 90.331 BUSINESS LAW I.....3 sem. hrs.

Legal rights and liabilities; principles of law applicable to business transactions with particular reference to contracts, bailments, personal and real property, and sales; sources of law and the judicial system.

#### 90.332 BUSINESS LAW II .....3 sem. hrs.

Principles of law as they pertain to guaranty and surety contracts, insurance, principal and agency relationships, employer-employee relationships, bankruptcy proceedings, estates and trusts, and various forms of business organization.

*Prerequisite: 90.331.*

#### 90.334 BUSINESS MATHEMATICS .....3 sem. hrs.

Concepts and principles related to fundamental business operations.



Credit, insurance, taxes, selling and finance, investments, the interpretation of statistical data; methods of teaching business arithmetic in the secondary school.

**65.350 TEACHING OF BUSINESS SUBJECTS IN THE SECONDARY SCHOOL.....3 sem. hrs.**

Should be scheduled simultaneously with Education 65.396 — Curriculum and Instruction in the Secondary School - General. Focuses on specific appropriate instructional methods for the effective teaching of business subjects.

**90.401 RECORDS MANAGEMENT AND OFFICE MACHINES.....3 sem. hrs.**

Office dictating and transcribing machines; adding-listing machines; printing rotary, and key-driven calculators; filing systems, business papers, and office procedures; teaching methods and techniques.

*Prerequisite: 94.202.*

**65.403 STUDENT TEACHING IN SECONDARY SCHOOL ..... 12 sem. hrs.**

**ACCOUNTING**

(Code 91)

**91.221 PRINCIPLES OF ACCOUNTING I.....3 sem. hrs.**

Development of the accounting cycle covering both service and merchandising activities of a sole proprietorship; special journals and special ledgers, accrued and deferred items, and business papers.

**91.222 PRINCIPLES OF ACCOUNTING II .....3 sem. hrs.**

Further development of the accounting cycle; recording, summarizing, and interpreting financial data for partnerships and corporations; development of an understanding of the voucher system.

*Prerequisite: 91.221.*

**91.321 INTERMEDIATE ACCOUNTING I.....3 sem. hrs.**

Preparation and interpretation of principal accounting statements; theoretical discussion of the standards of good accounting practice, with emphasis on current items.

*Prerequisite: Bus. 222.*

**91.322 INTERMEDIATE ACCOUNTING II .....3 sem. hrs.**

Standards of good accounting practice with emphasis on non-current items; solution and discussion of various contemporary accounting problems; detailed analysis of major financial statements of business organizations.

*Prerequisite: 91.321.*

**91.323 ACCOUNTING FOR MANAGEMENT DECISION.....3 sem. hrs.**

Management problems of depreciation methods, valuation of good

will, hidden balance sheet reserves, inventory evaluation, the price level and historical cost, budget and actual costs, and tax planning. The flows of cost accounting, financial accounting, and tax accounting are considered.  
*Prerequisite: 91.221 and 222.*

**91.421 COST ACCOUNTING.....3 sem. hrs.**

The elements of production costs using the job order system, the process cost system, and the standard cost system; interpretation of cost data.

*Prerequisite: 91.222.*

**91.422 AUDITING THEORY AND PROCEDURE .....3 sem. hrs.**

Principles, standards, procedures, and techniques applicable to internal and public auditing; consideration of the audit report and development of working papers for preparation of the report.

*Prerequisite: 91.222.*

**91.423 FEDERAL TAX ACCOUNTING.....3 sem. hrs.**

Procedures in accounting as dictated by Federal Tax laws; laws governing the preparation of Federal Income Tax return for individuals and small businesses.

*Prerequisite: 91.222.*

**91.424 STATE AND FEDERAL TAX PROBLEMS .....3 sem. hrs.**

Group and individual assignments selected from the following areas of advanced tax accounting: Partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Lectures, discussion of issues, practice in the solution of problems.

*Prerequisite: 91.422, 91.423.*

**91.448 ADVANCED COST ACCOUNTING .....3 sem. hrs.**

The utilization of cost data for planning, control and decision making. The extension of methods and procedures to standard, estimated and distribution cost systems.

*Prerequisite: 91.221, 222, and 421.*

**91.449 CPA PROBLEMS.....3 sem. hrs.**

The application of procedures for the solving of a cross-section of complex accounting problems, and the discussion of related theory and practice.

*Prerequisite: 91.323, 421, 422, 423, or consent of instructor.*

## INFORMATION PROCESSING

(Code 92)

**92.250 BUSINESS INFORMATION PROCESSING.....3 sem. hrs.**

Introduction and basic orientation to business information processing. The student is introduced to the peripheral devices. Flowcharting,

keypunching, sorting, tabulating, and programming exercises; observations on third generation computer hardware.

**92.252 BUSINESS ORIENTED PROGRAMMING.....3 sem. hrs.**

Designed to familiarize the student with the Cobol language and to develop his ability to use Cobol as an effective problem oriented language. The student defines, writes, tests, and debugs several Cobol problems. At least one problem compiled and run "hands on" by each class member.

*Prerequisite: 92.250.*

**92.350 ANALYTICAL COMPUTING CONCEPTS.....3 sem. hrs.**

Designed to familiarize the student with the Basic Assembly Language to develop further understanding of the computer, including registers, multi-programming and time sharing. Compiler type languages are discussed through an analysis of the Fortran compiler. Tape and disc concepts.

*Prerequisite: 92.250 and 92.252.*

**92.452 SYSTEM ANALYSIS AND DESIGN.....3 sem. hrs.**

Student-centered project approach to basic systems analysis and design; forms design, data collecting, data files, file maintenance, systems maintenance, systems flowcharting, integration of systems, feasibility studies, and systems implementation. Each student completes projects illustrative of basic systems concepts, and participates in one large class project which takes a system through the various stages of feasibility, design, and implementation.

*Prerequisite: 92.250, 252, 350.*

**92.454 EDUCATIONAL COMPUTER APPLICATIONS .....3 sem. hrs.**

The major objective is to assist the prospective or in-service teacher to utilize the capabilities of the computer in his own classroom. The computer as a tool of research and calculation, management simulation games, computer assisted testing, computer managed instruction, and computer assisted instruction explored through readings, discussions, films, and guest lecturers. The student designs, develops, and/or programs educational application suitable for the high school or college classroom.

*Prerequisite: 92.250, 252, 350, and 452.*

**92.456 MANAGERIAL COMPUTER APPLICATIONS.....3 sem. hrs.**

Gives the student practical experience in the analysis of business problems. Advanced techniques and concepts of programming and system analysis are featured with a major emphasis on problem-solving applications dealing with such topics as payroll, inventory, and sales. Students are required to program, test, and make operational various applicational routines with raw data. Hands-on experience will be interspersed throughout the course.

*Prerequisites: 92.250, 252, 350, and 452.*

# MANAGEMENT

(Code 93)

## 93.341 RETAIL MANAGEMENT CONCEPTS.....3 sem. hrs.

Presents retailing as a dynamic sphere of business, characterized by the necessity of adapting its operations to changing demographic characteristics of trade areas. Competitive retail problems; considerations in formulating company policies such as location, layout, promotion, service, and personnel. Analyses of case situations to develop ability to apply sound principles of current retail management practice.

*Prerequisite: Economics 40.211, 40.212.*

## 93.342 MARKETING: PRINCIPLES AND PRACTICES.....3 sem. hrs.

Functional and institutional aspects of distribution of materials and products; significance of quantitative and qualitative changes in population characteristics; trade-channel, price, and other marketing policies.

*Prerequisite: Econ. 40.211 and 40.212.*

## 93.343 BUSINESS FINANCE.....3 sem. hrs.

Financial data analyzed for the solution of managerial problems in finance, security contracts, capital structures, cost of capital, security underwriting and marketing; management of working capital, use of the capital market, dividend policy and asset valuation.

*Prerequisites: 91.221 and 222.*

## 93.344 MANAGEMENT PROCESSES.....3 sem. hrs.

Fundamentals of organization and administration.

*Prerequisite: 93.343.*

## 93.345 PERSONNEL MANAGEMENT .....3 sem. hrs.

Policies and current practices in the selection, placement, training-development, evaluation, compensation and motivation of employees at all levels in business firms.

*Prerequisite: Economics 40.211 and 40.212.*

## 93.442 ADVERTISING MANAGEMENT: ORGANIZATION AND PLANNING.....3 sem. hrs.

Survey of advertising both as a marketing function and promotional medium.

*Prerequisite: Econ. 40.211, 212, and Bus. 93.342.*

## 93.443 SALES MANAGEMENT.....3 sem. hrs.

Management of the sales of the materials and products from the viewpoint of the individual business enterprise in the United States. *Demand-pull* rather than *supply-push* is emphasized as a basis for contemporary practices in Sales Management.

*Prerequisite: Econ. 40.211, 40.212, and Bus. 93.342.*

**93.444 MARKETING MANAGEMENT.....3 sem. hrs.**

Group and individual marketing research studies entailing the search of both documented sources and the results of field work. Students are encouraged to follow their fields of interest such as Management, Distribution, Advertising, and Marketing Practices. Prior approval of research projects by the instructor is required. Class members participate in oral and written presentations.

*Prerequisite: Bus. 93.342 and two of the following: 93.341, 442, 443; and consent of the instructor.*

**93.445 BUSINESS REPORT WRITING .....3 sem. hrs.**

The organization and preparation of reports of types used in business firms. Techniques of collecting, interpreting, and presenting information useful to management.

*Prerequisite: Junior or Senior standing.*

**93.446 BUSINESS POLICIES.....3 sem. hrs.**

Sound business principles and policies studied in relation to daily decision and policy making by upper level of management. Quantitative methods, and techniques from subject fields of business and economics are applied to selected case problems.

*Prerequisite: Senior standing.*

**93.447 RESEARCH STUDIES IN MANAGEMENT .....3 sem. hrs.**

Identification of a problem, investigation, and preparation of a report on an individual basis. The student selects a problem relating to some field of Business Administration: accounting, finance, advertising, marketing, general and personnel management.

*Prerequisite: Senior standing and consent of the instructor.*

**SECRETARIAL**

(Code 94)

**94.201 ELEMENTARY TYPEWRITING I .....2 sem. hrs.**

Presentation and mastery of the keyboard and operating parts of the typewriter; stroking techniques and control; instruction in preparing business letters, manuscripts, carbon copies, envelopes, business forms, and cards; teaching techniques.

**94.202 ELEMENTARY TYPEWRITING II .....2 sem. hrs.**

Production techniques; typing letters, envelopes, and cards; multiple carbon work, preparation of manuscripts, tabulation, and legal forms; preparation of stencils and liquid process masters; teaching techniques.

*Prerequisite: 94.201.*

**94.211 ELEMENTARY SHORTHAND I.....3 sem. hrs.**

Beginning course in Gregg Shorthand Diamond Jubilee.



**94.212 ELEMENTARY SHORTHAND II .....3 sem. hrs.**

Development of ability to read shorthand notes.

*Prerequisite: 94.211.*

**94.301 ADVANCED TYPEWRITING .....2 sem. hrs.**

Advanced application of typewriting skills. Coordinated with Advanced Shorthand for those students seeking certification in shorthand.

*Prerequisite: 94.202.*

**94.311 ADVANCED SHORTHAND.....3 sem. hrs.**

Practice in dictation and transcription of shorthand, with speed and accuracy stressed; grammar, shorthand penmanship, and principles of teaching of shorthand.

*Prerequisite: 94.212.*

**94.312 SECRETARIAL PRACTICE.....3 sem. hrs.**

Stenographic and secretarial activities.

*Prerequisite: 94.311.*

**94.333 BUSINESS CORRESPONDENCE AND REPORTS.....3 sem. hrs.**

Review of essentials of grammar; study of the vocabulary of business; preparation of business forms; writing business letters of various types; preparation of personal data sheets; organization and preparation of business reports.

*Prerequisite: 94.202.*

**94.412 TOUCH SHORTHAND.....3 sem. hrs.**

Dictation and Transcription involving the use of a machine keyboard shorthand system. Development of a degree of proficiency in the use of a touch system; techniques for teaching machine shorthand.

*Prerequisite: 94.301 or consent of the instructor.*

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