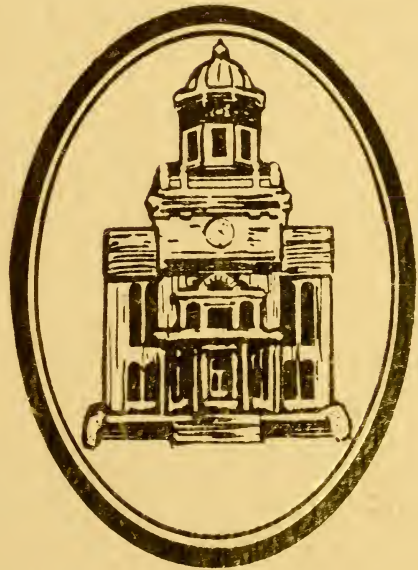



Bloomsburg State College

**Undergraduate
Catalogue**



1980-1981



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BLOOMSBURG STATE COLLEGE



UNDERGRADUATE CATALOGUE

1980-1981

(prepared March 1, 1980)

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Bloomsburg State College is committed to providing leadership in taking affirmative action to attain equal educational and employment rights for all persons, without regard to sex, handicap, or other legally protected classification. This policy is placed in this document in accordance with state and federal laws including Title IX of the Educational Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. Please direct equal opportunity inquiries to:

Affirmative Action Officer, Carver Hall, 389-2523

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**BLOOMSBURG STATE COLLEGE
APPROVED COLLEGE CALENDAR
FOR
1980-81**

Semester I

(1980)

Registration	Monday, August 25
Evening Classes Begin, 6:00 p.m.	Monday, August 25
Regular Classes Begin	Tuesday, August 26
No Classes	Monday, September 1 (Labor Day)
Mid-Semester Break	Monday & Tuesday, October 13-14
Classes Resume	Wednesday, October 15, 8:00 a.m.
Thanksgiving Recess Begins	Wednesday, November 26, 12:00 noon
Classes Resume	Monday, December 1, 8:00 a.m.
Reading Day	Saturday, December 13
Final Exams Begin	Monday, December 15
First Semester Ends	Saturday, December 20
Commencement	Sunday, December 21

MWF: 43½ Class Hours — TTH: 45 Class Hours

Semester II

(1981)

Registration	Monday, January 12
Classes Begin	Tuesday, January 13
Spring Recess Begins	Thursday, February 26, 8:00 a.m.
Classes Resume	Monday, March 9, 8:00 a.m.
Easter Recess Begins	Thursday, April 16, End of Classes
Classes Resume	Monday, April 20, 12:00 noon
Reading Day	Thursday, May 7
Final Exams Begin	Friday, May 8
Second Semester Ends	Friday, May 15
Commencement	Sunday, May 17

MWF: 43½ Class Hours — TTH: 45 Class Hours

1981 Summer Sessions: June 1 through August 21

**BLOOMSBURG STATE COLLEGE
APPROVED COLLEGE CALENDAR
FOR
1981-82**

SEMESTER I (1981)

Registration	Monday, August 31
Classes Begin	Tuesday, September 1
No Classes	Monday, September 7, Labor Day
Thanksgiving Recess Begins	End of Classes on Wednesday, November 25
Classes Resume	Monday, November 30, 8:00 a.m.
Classes End	End of Classes on Wednesday, December 12
Reading Day	Thursday, December 13
Final Exam Period Begins	Friday, December 14, 8:00 a.m. (and includes Saturday, Dec. 15)
First Semester Ends	Thursday, December 20
Commencement	Sunday, December 16

MWF: 44 Class Hours — TTH: 45 Class Hours

SEMESTER II (1982)

Registration	Tuesday, January 8
Classes Begin	Wednesday, January 9, 8:00 a.m.
Spring Recess Begins	End of Classes on Friday, February 22
Classes Resume	Monday, March 3, 8:00 a.m.
Easter Recess Begins	End of Classes on Wednesday, April 2
Classes Resume	Tuesday, April 8, 8:00 a.m.
Classes End	End of Classes on Friday, May 2
Final Exam Period Begins	Monday, May 5
Second Semester Ends	Saturday, May 10
Commencement	Saturday, May 10

MWF: 45 Class Hours — TTH: 45 Class Hours

1982 Summer Sessions — May 27 through August 15



Standing front row left to right: Joseph Nespoli, Chairman; Frank Fay, Vice-President; Joan Keller, Secretary; President James H. McCormick.
Rear: Robert Buehner, LaRoy Davis, Thomas Gordon, Lucy Szabo.

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Bloomsburg State College
(as of March 1, 1980)

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James V. Mitchell



Boyd F. Buckingham



Jerrold A. Griffis

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(as of March 1, 1980)

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B.S., Indiana University of Pennsylvania; M.Ed., Ed.D., University of Pittsburgh. (1973)
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B.A., M.A., Ph.D., University of Chicago. (1977)
- JERROLD A. GRIFFIS *Vice President for Student Life*
B.S., West Chester State College; M.Ed., Ohio University; D.Ed., The Pennsylvania State University. (1971)
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B.S., Bloomsburg State College; M.S., Bucknell University. (1953)
- JOHN H. ABELL *Director of Housing*
B.A., M.Ed., St. Lawrence University. (1973)
- CAROL A. BARNETT *Assistant Director of Financial Aid*
B.S., M.Ed., Indiana University of Pennsylvania. (1978)
- ROBERT L. BUNGE *Registrar*
B.S., Bloomsburg State College; M.S., Bucknell University. (1964)
- CHARLES H. CARLSON *Dean, School of Graduate Studies*
B.A., San Jose State College; M.A., Ed.D., Teachers College, Columbia University. (1959)
- JENNIE H. CARPENTER *Assistant Dean of Student Life*
B.A., University of Oklahoma; M.A., University of Alabama. (1968)
- DEBORAH E. CHIODO *Affirmative Action/Desegregation Officer
and Title IX Coordinator*
B.S., Bowling Green University; M.S., Indiana State University. (1976)
- SARAH COBRAIN *Assistant Dean of Student Life*
B.A., Dickinson College; M.A., Bowling Green State University. (1976)
- T. L. COOPER *Dean of Admissions and Records*
A.B., Morehead State University; M.Ed., The Pennsylvania State University. (1970)
- THOMAS A. DAVIES, JR. *Director of Career Development and Placement*
B.A., Waynesburg College; M.Ed., Duquesne University. (1964)
- FRANK S. DAVIS, JR. *Assistant Vice President for Administration*
B.S., M.Ed., Shippensburg State College; Ph.D., University of Pittsburgh. (1966)

Date in parenthesis is date of appointment

- JoANNE B. DAY *Assistant Director of Career Development and Placement*
B.A., M.Ed., Western Maryland College. (1976)
- JOSEPH A. DeMELFI *Assistant Dean of Student Life*
B.S., M.S., Delta State University. (1976)
- DOYLE G. DODSON *Director of the Computer Services Center*
B.S., M.Ed., Bloomsburg State College. (1967)
- G. ALFRED FORSYTH *Dean, School of Arts and Sciences*
B.A., Dickinson College; M.S., North Carolina State University; Ph.D., Purdue University. (1978)
- ANNE L. FRENCH *Admissions Counselor*
B.S., Bloomsburg State College. (1977)
- RICHARD B. HAUPT *Assistant Dean of Student Life*
B.S., M.Ed., Shippensburg State College. (1968)
- KENNETH C. HOFFMAN *Special Assistant for College Relations*
B.A., The Pennsylvania State University. (1970)
- GEORGE H. KIRLIN *Assistant Dean of Student Life*
B.S., M.Ed., Kutztown State College. (1977)
- PHILLIP H. KRAUSE *Executive Assistant to the Vice President for Academic Affairs*
B.A., M.Ed., The Pennsylvania State University. (1972)
- THOMAS LYONS *Director of Financial Aid*
B.S., Susquehanna University; M.A., Indiana University of Pennsylvania. (1976)
- HOWARD K. MACAULEY, JR. *Dean, School of Professional Studies*
A.B., Bucknell University; M.A., Stanford University; M.Ed., Temple University; Ph.D., University of Pennsylvania. (1967)
- HUGH J. McFADDEN, JR. *Director of Institutional Research*
B.S., M.S., West Chester State College; Ed.D., Lehigh University. (1976)
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B.S., Bloomsburg State College; M.Ed., Ohio University; D.Ed., The Pennsylvania State University. (1968)
- MAUREEN L. MULLIGAN *Assistant Dean of Student Life*
B.A., Wheeling College; M.S., Indiana State University. (1977)
- EDWARD W. NARDI *Assistant Dean of Student Life*
B.S., State University of New York at New Paltz; M.S., Indiana State University. (1976)
- ROBERT G. NORTON *Dean of Student Life*
B.S., Slippery Rock State College; M.Ed., University of Pittsburgh. (1962)
- THADDEUS PIOTROWSKI *Director, Learning Resources Center*
B.S., California State College; M.Ed., The Pennsylvania State University. (1960)
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B.S., Bloomsburg State College; M.A., Ed.D., Teachers College, Columbia University. (1968)
- WILLIAM V. RYAN *Director of Library Services*
A.B., John Carroll University; M.A., M.S.L.S., Case-Western Reserve; M.A., University of Notre Dame. (1973)

- KENNETH D. SCHNURE *Assistant Registrar*
 B.S., Bloomsburg State College; M.S., Bucknell University. (1970)
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 and the College Union*
 B.S., M.Ed., Bloomsburg State College. (1968)
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 B.S., M.S., M.B.A., Wilkes College. (1978)
- JOHN L. WALKER *Executive Assistant to the President*
 B.B.A., M.S., Westminster College. (1965)
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 B.S., Bloomsburg State College; M.S., Bucknell University. (1978)
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 and Director of Personnel*
 A.B., Gettysburg College, J.D., Dickinson School of Law. (1971)
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 B.S., Bloomsburg State College; M.Ed., Rutgers University; Ed.D., University
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- LINDA A. ZYLA *Assistant Dean of Student Life*
 B.S., M.Ed., Bloomsburg State College. (1976)



John L. Walker



Lee C. Hopple



William G. Williams



Deborah E. Chiodo



G. Alfred Forsyth



Emory W. Karig, Jr.



Howard K. Macauley



Richard O. Wolfe



Charles H. Carlson

FACULTY

(as of March 1, 1980)

- WILLIAM A. ACIERNO, Associate Professor *Speech Communication and Theatre Arts*
B.A., University of Pittsburgh; M.F.A., Carnegie Institute of Technology. (1956)
- BRUCE E. ADAMS, Professor *Geography and Earth Science*
B.S., Lock Haven State College; M.Ed., D.Ed., The Pennsylvania State University. (1956)
- H.M. AFSHAR, Professor *Educational Studies and Services*
B.A., University of Teheran; M.Ed., Ed.D., University of Florida. (1966)
- RICHARD D. ALDERFER, Associate Professor *Speech Communication and Theatre Arts*
B.A., Bluffton College; M.Ed., Temple University; Ph.D., Ohio University. (1967)
- BEN C. ALTER, Assistant Professor *Foreign Languages*
B.A., Susquehanna University; M.Ed., University of Maine. (1964)
- M. DALE ANDERSON, Associate Professor *English*
B.S.L., Nebraska Christian College; M.A., Fort Hays Kansas State College. (1965)
- RICHARD G. ANDERSON, Associate Professor *History*
B.A., Western Kentucky State College; M.A., Ph.D., Texas Christian University. (1968)
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A.A.S., Jamestown Community College; B.A., Harpur College; M.S., Ph.D., University of Illinois. (1975)
- BENJAMIN S. ANDREWS, Associate Professor *Communication Disorders*
B.S., University of Virginia; M.A., State University of Iowa. (1968)
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B.A., Washington & Lee University; M.A., Ph.D., University of Pennsylvania. (1974)

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and Athletics*
B.S., West Chester State College; M.Ed., East Stroudsburg State College. (1968)
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B.A., M.A., Montclair State College; Ed.D., Temple University. (1969)
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B.S., Albright College; M.Ed., Ph.D., The Pennsylvania State University. (1969)
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B.A., Ball State Teachers College; M.A., Ph.D., University of Chicago. (1974)
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B.A., University of Virginia; M.S., Ph.D., North Carolina State University. (1971)
- J. WESTON BAKER, Associate Professor *Business Administration*
B.S., University of California at Berkeley; M.B.A., M.A., Washington State
University. (1969)
- DONALD R. BASHORE, Associate Professor *Psychology*
B.A., Susquehanna University; M.Ed., The Pennsylvania State University. (1960)
- UJAGAR S. BAWA, Professor *Economics*
B.A., M.A., Punjab University; A.M., University of Pennsylvania; Ph.D., Cornell
University. (1970)
- CHARLES M. BAYLER, Associate Professor *Business Administration*
B.S., Susquehanna University; M.S.B.A., C.P.A., Bucknell University. (1965)
- KARL A. BEAMER, Assistant Professor *Art*
B.S., Kutztown State College; M.F.A., The Pennsylvania State University. (1972)
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B.S., Tufts University; M.S., Iowa State University; Ph.D., Rensselaer
Polytechnic Institute. (1971)
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A.B., Cornell University; LL.B., Rutgers-The State University; M.A., Hunter
College. (1977)
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Childhood Education*
B.S., Glassboro State College; M.S., Ed.D., University of Pennsylvania. (1973)
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A.B., Middlebury College; Ph.D., University of Vermont. (1967)
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B.S., Lock Haven State College; M.S., Ph.D., The Pennsylvania State University.
(1976)
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B.A., Miami University; M.A., The University of Iowa; Ph.D., University of Massa-
chusetts. (1978)
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Education, and Athletics*
B.S., M.A., University of Alabama. (1968)
- RUTH ANNE BOND, Instructor *Director, Upward Bound Program*
B.A., Wheaton College; M.A., Montclair State College. (1977)
- GEORGE P. BOSS, Assistant Professor *Speech Communication
and Theatre Arts*
A.A., Pensacola Junior College; B.A., University of West Florida; M.A., Ph.D.,
Ohio University. (1976)

12/ FACULTY

- PATRICIA M. BOYNE, Assistant Professor *Business Administration*
B.A., Ladycliff College; M.S., The Pennsylvania State University. (1976) C.D.P.
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B.S., State University of New York at Fredonia; M.A., Ph.D., Johns Hopkins University. (1975)
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B.S., Ed., Bloomsburg State College; M.A., Montclair State College; Ph.D., The Pennsylvania State University. (1966)
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B.A., Antioch College; M.A., Columbia University; Ph.D., New School, N.Y.C. (1967)
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B.S., Lock Haven State College; M.Ed., The Pennsylvania State University. (1965)
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A.B., Johnson C. Smith University; M.Ed., Temple University, Ph.D., Toledo University. (1973)
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R.N., Robert Packer Hospital School of Nursing; B.S.N., University of Pittsburg; M.S.N., University of Washington. (1979)
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- KAY F. CAMPLESE, Assistant Professor *Counselor*
A.B., M.A., West Virginia University. (1969)
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A.A., Scottsbluff Junior College; B.S., M.B.A., Denver University; Ph.D., University of Texas at Austin. (1978)
- WILLIAM L. CARLOUGH, Professor *Chairperson, Philosophy and Anthropology*
B.A., Hope College; B.D., Western Theological Seminary; S.T.M., General Theological Seminary; Ph.D., New York University. (1964)
- C. WHITNEY CARPENTER, II, Professor *Foreign Languages*
A.B., Cornell University; M.A., University of Southern California; M.S.Ed., Bucknell University; Ph.D., New York University. (1966)
- RONALD R. CHAMPOUX, Assistant Professor *Communication Disorders*
B.A., Providence College; M.A.T., Assumption College; M.S., M.A., University of Michigan. (1977)
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B.A., University of Northern Colorado; M.A., New York University. (1977)
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- MARJORIE A. CLAY, Assistant Professor *Philosophy and Anthropology*
B.A., University of Oklahoma; M.A., Northwestern University. (1978)
- ELLEN M. CLEMENS, Associate Professor *Business Education*
B.S., M.S., Bloomsburg State College; D.Ed., The Pennsylvania State University.
(1979)
- PAUL C. COCHRANE, Associate Professor *Mathematics*
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- STEVEN L. COHEN, Associate Professor *Psychology*
B.A., Oakland University; Ph.D., University of Maine. (1973)
- ANDREW L. COLB, Assistant Professor *Chemistry*
B.S., Union College; Ph.D., Northwestern University. (1976)
- JAMES E. COLE, Professor *Chairperson, Biological and Allied Health Sciences*
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- CATHERINE M. CONSTABLE, Instructor *Communication Disorders*
B.S., M.Ed., Bloomsburg State College. (1979)
- JOHN F. COOK, JR., Assistant Professor *Art*
B.F.A., McGill University; M.A., Columbia University. (1974)
- JOHN H. COUCH, Associate Professor *Music*
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of Music. (1972)
- JAMES B. CREASY, Professor *Business Administration*
B.S., Bloomsburg State College; M.S.B.A., Bucknell University; D.Ed., The
Pennsylvania State University. (1960)
- SYLVIA H. CRONIN, Associate Professor *Music*
B.Ed., M.Ed., Rhode Island College of Education; M.Ed., The Pennsylvania State
University. (1964)
- JAMES H. DALTON, JR., Assistant Professor *Psychology*
B.A., King's College; M.A., University of Connecticut. (1979)
- ROBERT G. DAVENPORT, Associate Professor *Counselor*
B.S., M.S., Bucknell University. (1961)
- WILLIAM K. DECKER, Professor *Music*
B.S., M.M., Eastman School of Music of the University of Rochester; D.M.A.,
Temple University. (1963)
- BLAISE DELNIS, Associate Professor *Foreign Languages*
A.B., Lukow University; M.A., Fordham University. (1965)
- JOHN E. DENNEN, Assistant Professor *Business Administration*
B.S., Bloomsburg State College; M.S., Bucknell University. (1965)
- DANIEL S. DESSEL, Instructor *Speech Communication and Theatre Arts*
B.A., Franklin and Marshall College; M.A., Northern Illinois University. (1978)
- RUSSELL B. DeVORE, Assistant Professor *Physics*
B.A., Gettysburg College; M.S., Ph.D., West Virginia University. (1976)
- JOHN C. DIETRICH, Associate Professor *History*
A.B., Capital University; M.A., Ohio State University. (1965)
- LESTER J. DIETTERICK, Associate Professor *Business Administration*
B.S., M.Ed., Bloomsburg State College; M.S.B.A., Bucknell University. (1966)

- RONALD V. DiGiANDOMENICO, Instructor *Center for Academic Development*
B.A., Bloomsburg State College; M.S.W., Marywood College. (1977)
- BERNARD C. DILL, Professor *Business Administration*
B.S., M.B.A., The Pennsylvania State University; D.B.A., George Washington University. (1968)
- BARBARA M. DILWORTH, Associate Professor *Economics*
B.A., Chestnut Hill College; M.A., University of Pennsylvania. (1966)
- RICHARD J. DONALD, Assistant Professor *Elementary and Early Childhood Education*
B.S., East Stroudsburg State College; M.S., Kansas State University. (1968)
- JUDITH P. DOWNING, Associate Professor *Biological and Allied Health Sciences*
B.S., Bowling Green State University; M.A., Ph.D., State University of New York at Buffalo. (1975)
- VIRGINIA A. DUCK, Assistant Professor *English*
B.A., The Pennsylvania State University; M.A., Bucknell University. (1958)
- WILLIAM D. EISENBERG, Associate Professor *English*
B.A., University of Delaware; M.A., Lehigh University. (1960)
- JOHN A. ENMAN, Professor *Geography and Earth Science*
B.A., University of Maine; M.A., Harvard University; Ph.D., University of Pittsburgh. (1959)
- PHILLIP A. FARBER, Professor *Biological and Allied Health Sciences*
B.S., King's College; M.S., Boston College; Ph.D., Catholic University of America. (1966)
- RONALD A. FERDOCK, Associate Professor *English*
A.B., St. Vincent College; M.A., The Pennsylvania State University. (1965)
- JOHN R. FLETCHER, Assistant Professor *Biological and Allied Health Sciences*
B.S., M.Ed., Bloomsburg State College. (1969)
- GERTRUDE E. FLYNN, Professor *Chairperson, Nursing*
R.N., Carney Hospital; B.S., University of Rochester; M.S., University of Buffalo; D.N.S., Boston University. (1974)
- ARIADNA FOUREMAN, Professor *Foreign Languages*
B.A., M.A., Ph.D., The Ohio State University. (1969)
- WENDELIN R. FRANTZ, Professor *Chairperson, Geography and Earth Science*
A.B., College of Wooster; M.S., Ph.D., University of Pittsburgh. (1968)
- HAROLD K. FREY, Associate Professor *Business Administration*
B.S., Lock Haven State College; M.A., State College of Iowa; M.S., Elmira College. (1978)
- ERICH F. FROHMAN, Associate Professor *Speech Communication and Theatre Arts*
B.A., Columbia College; M.A., Syracuse University. (1966)
- ROGER W. FROMM, Assistant Professor *Library, Reference Librarian*
B.A., Ohio Wesleyan University; M.Ed., University of Vermont; M.L.S., Rutgers University. (1974)

- WILLIAM J. FROST, Assistant Professor *Library, Reference Librarian*
B.A., Old Dominion University; M.L.S., Rutgers Graduate School of Library Service; M.A., University of Scranton. (1972)
- LAWRENCE B. FULLER, Associate Professor *English*
A.B., Dartmouth College; M.A., Columbia University; Ph.D., The Johns Hopkins University. (1971)
- FRANCIS J. GALLAGHER, Associate Professor *Business Administration*
A.B., Stonehill College; M.B.A., Temple University. (1972)
- LUCILLE A. GAMBARDELLA, Assistant Professor *Nursing*
B.S.N., Villanova University; M.S.N., Boston University. (1978)
- P. JOSEPH GARCIA, Associate Professor *Physics*
B.S., Kent State University; M.S., New Mexico Highlands University; D.Ed., The Pennsylvania State University. (1968)
- MARY T. GARDNER, Assistant Professor *Health, Physical Education and Athletics*
B.S., M.Ed., East Stroudsburg State College. (1974)
- HALBERT F. GATES, Professor *Physics*
B.S., Milwaukee State Teachers College; Ph.M., University of Wisconsin; Ph.D., Michigan State University. (1969)
- MICHAEL W. GAYNOR, Professor *Psychology*
B.A., Muhlenberg College; M.S., Lehigh University; Ph.D., Colorado State University. (1970)
- GEORGE J. GELLOS, Associate Professor *Biological and Allied Health Sciences*
B.S., Muhlenberg College; M.S., Ohio University; Ph.D., The Pennsylvania State University. (1965)
- MARTIN M. GILDEA, Associate Professor *Political Science*
B.A., St. Vincent College; M.A., University of Notre Dame. (1966)
- NANCY G. GILGANNON, Associate Professor *Educational Studies and Services*
B.S., Bloomsburg State College; M.S., Marywood College; D.Ed., The Pennsylvania State University. (1976)
- NANCY E. GILL, Assistant Professor *English*
B.A., M.A., Washington State University; Ph.D., The Pennsylvania State University. (1968)
- NORMAN M. GILLMEISTER, Associate Professor *Geography and Earth Science*
B.A., Harvard College; M.A., Indiana University; M.A., Ph.D., Harvard University. (1973)
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- ALFRED E. TONOLO, Professor *Foreign Languages*
B.A., Lottorio College; M.A., Colgate University; Ph.D., Madrid University. (1967)
- JUNE L. TRUDNAK, Professor *Mathematics*
B.S., Bloomsburg State College; M.S., Bucknell University; Ph.D., The
Pennsylvania State University. (1968)
- HENRY C. TURBERVILLE, JR., Associate Professor *Health, Physical
Education, and Athletics*
B.S., M.A., University of Alabama. (1967)
- GEORGE A. TURNER, Associate Professor *History*
B.S., M.S., Eastern Illinois University. (1965)
- DONALD A. VANNAN, Professor *Elementary and Early Childhood
Education*
B.S., Millersville State College; M.Ed., D.Ed., The Pennsylvania State University.
(1961)
- JOSEPH P. VAUGHAN, Professor *Biological and Allied
Health Sciences*
B.S., University of Maine; M.Ed., D.Ed., The Pennsylvania State University. (1967)
- J. CALVIN WALKER, Professor *Psychology*
B.A., Muskingum College; Ed.M., Ed.D., Temple University. (1967)
- STEPHEN C. WALLACE, Associate Professor *Music*
B.S., Mansfield State College; M.M., University of Michigan; D.Ed., The Pennsylv-
ania State University. (1967)
- CHARLES T. WALTERS, Assistant Professor *Art*
B.M., DePauw University; M.F.A., University of Wisconsin; Ph.D., The University
of Michigan. (1977)
- PETER B. WALTERS, Instructor *Counselor, Upward Bound Program*
B.S., Bloomsburg State College; M.A., University of Scranton. (1978)
- R. EDWARD WARDEN, Associate Professor *Elementary and Early
Childhood Education*
B.S., Millersville State College; M.A., Villanova University. (1967)

- ROBERT D. WARREN, Professor *Chairperson, History*
B.S., Appalachian State Teachers College; M.A., Ph.D., Georgetown University.
(1964)
- DAVID E. WASHBURN, Professor *Educational Studies and Services*
B.A., M.Ed., Ph.D., University of Arizona; Postdoctoral Certificate in Multicultural
Education, University of Miami. (1972)
- LYNN A. WATSON, Professor *Elementary and Early Childhood Education*
B.S., Shippensburg State College; M.Ed., D.Ed., The Pennsylvania State University.
(1966)
- ROBERT N. WATTS, Associate Professor *Business Administration*
B.S., Susquehanna University; M.B.A., Ohio University. (1975)
- MARGARET S. WEBBER, Professor *Special Education*
B.S., State University of New York, College at Oneonta; M.S., Temple University;
Ed.D., Temple University. (1968)
- PATRICIA A. WEIGEL, Assistant Professor *Catalog Librarian*
B.A., Cornell College; M.A., University of Iowa; M.A., University of Minnesota.
(1976)
- JULIA M. WEITZ, Assistant Professor *Communication Disorders*
B.S., Emerson College; M.S., University of Pittsburgh. (1978)
- DORETTE E. WELK, Instructor *Nursing*
B.S.N., D'Youville College; M.S.N., University of Pennsylvania. (1977)
- NORMAN E. WHITE, Professor *Chemistry*
A.B., Wittenberg University; M.S., Ph.D., University of Pennsylvania. (1965)
- CHRISTINE T. WHITMER, Associate Professor *Foreign Languages*
B.A., Ball State University; M.A., The Pennsylvania State University. (1966)
- JAMES R. WHITMER, Associate Professor *History*
B.A., M.A., Ball State University. (1964)
- JOHN B. WILLIMAN, Associate Professor *History*
B.S., College of Charleston; M.A., University of Alabama; Ph.D., St. Louis
University. (1969)
- KENNETH T. WILSON, JR., Associate Professor *Art*
B.S., Edinboro State College; M.S., The Pennsylvania State University. (1963)
- MELVYN L. WOODWARD, Professor *Business Administration*
A.B., Bucknell University; M.B.A., Ph.D., Ohio State University. (1976)
- WILLIAM S. WOZNEK, Associate Professor *Elementary and Early
Childhood Education*
B.S., M.S., Ed.D., Syracuse University. (1970)
- IRVIN WRIGHT, Assistant Professor *Assistant Director of the Center
for Academic Development*
A.A., Dodge City Junior College; B.Ed., State University of New York; M.Ed.,
University of Toledo. (1977)
- STEPHEN G. WUKOVITZ, Associate Professor *Physics*
B.A., M.A., Montclair State College. (1968)
- ROBERT P. YORI, Associate Professor *Business Administration*
B.S., Bloomsburg State College; M.B.A., Lehigh University. (1969)
- WILLIAM M. YOUNG, Professor *Business Administration*
B.A., Syracuse University; M.A., Princeton University; D.B.A., Kent State
University. (1978)

JANICE M. YOUSE, Assistant Professor

*Speech Communication and
Theatre Arts*

B.S., M.A., Temple University. (1965)

JOSEPH M. YOUSHOCK, Assistant Professor

Special Education

B.S., M.Ed., Bloomsburg State College. (1971)

MARILOU W. ZELLER, Instructor

Library, Assistant Catalog Librarian

B.S., West Virginia Wesleyan College; M.L.S., University of Pittsburgh. (1978)

LOIS P. ZONG, Assistant Professor

Nursing

R.N., Jefferson Medical College Hospital; B.S.N., M.S.N., University of Pennsylvania. (1978)

MATTHEW ZOPPETTI, Professor

Educational Studies and Services

B.S., California State College; M.Ed., University of Pittsburgh; Ph.D., University of Maryland. (1969)

ADJUNCT FACULTY MEDICAL TECHNOLOGY PROGRAM

Abington Memorial Hospital

Abington, Pa.

JOHN W. ELMAN, M.D., *Director*

MS. BARBARA J. SCHEELJE, MT (ASCP), *Educational Coordinator*

Geisinger Medical Center

Danville, Pa.

JOHN J. MORAN, M.D., *Director*

AL SWARTENTRUBER, B.S., MT (ASCP), *Educational Coordinator*

Lancaster General Hospital

Lancaster, Pa.

WARD M. O'DONNELL, M.D., *Director*

JOSEPH J. GALLOGHER, *Director, Education and Training*

Robert Packer Hospital

Sayre, Pa.

DONALD R. WAEVER, M.D., *Director*

JAMES L. BENDER, B.S., MT (ASCP), *Educational Coordinator*

Sacred Heart Hospital

Allentown, Pa.

F.V. KOSTELNIK, M.D., *Director*

MRS. CAROL J. DURKA, MT (ASCP), *Educational Coordinator*

St. Joseph's Hospital

Reading, Pa.

JASPER CHEN SEE, M.D., *Laboratory Director*

MS. JEAN WADE, B.S., MT (ASCP), *Educational Director*

Williamsport Hospital

Williamsport, Pa.

GENE T. FRIES, M.D., *Director*

SANDRA E. RISHL, MT (ASCP), *Educational Coordinator*

Wilkes-Barre General Hospital

Wilkes-Barre, Pa.

C.E. RODRIQUEZ, M.D., *Director*

MS. HELEN RUANE, MT (ASCP), *Education Coordinator*

ADJUNCT FACULTY RADIOLOGICAL TECHNOLOGY PROGRAM

F.H. BETZ, R.T. (AART), *Program Director*

G.L. O'ROURKE, M.D., *Medical Director*

J.D. SHOOP, M.D., *Department Chairperson*

COLLEGE SERVICES

ROBERT W. ABBOTT, JR. B.A., M.A., University of Delaware. (1978)	<i>Educational Systems Specialist Computer Services Center</i>
LLOYD H. ANDERSON	<i>Purchasing Agent</i>
MICHAEL AZAR	<i>Student Life Accountant</i>
WILLIAM BAILEY, JR.	<i>Manager, College Store</i>
PAUL L. CONARD B.S., Bloomsburg State College	<i>Director of Administrative Services</i>
BRUCE C. DIETTERICK B.A., The Pennsylvania State University	<i>Director of Public Information</i>
DONALD E. HOCK B.A., Bloomsburg State College	<i>Director of Budget</i>
C. DONALD HOUSENICK	<i>Assistant Director of Computer Services</i>
MARIANNE MONTAGUE B.A., M.S., Wilkes College	<i>Assistant Director of Student Activities and the College Union</i>
RICHARD E. NEUFER	<i>Director of Safety and Security</i>
ROBERT RANKIN B.S., The Pennsylvania State University	<i>Systems Program Manager</i>
CHARLES A. ROBBINS B.S., Bloomsburg State College	<i>Director of Physical Plant</i>
PAUL G. SLOCUM B.S., South Dakota Wesleyan; Certificate, University of Pennsylvania	<i>Licensed Physical Therapist</i>
MICHAEL SOWASH B.S. in Ed., Slippery Rock State College	<i>Assistant Director of Student Activities and the College Union</i>

FACULTY EMERITI

HARVEY A. ANDRUSS, President Emeritus (September, 1969)*
 LUCILE J. BAKER (May, 1956)
 IVA MAE V. BECKLEY (May, 1970)
 WILLARD A. CHRISTIAN (May, 1978)
 BEATRICE M. ENGLEHART (August, 1970)
 C. STUART EDWARDS (June, 1979)
 HOWARD F. FENSTEMAKER (May, 1963).
 CHESTER M. HAUSKNECHT (July, 1950)
 RALPH S. HERRE (May, 1972)
 JOHN A. HOCH, Dean Emeritus (May, 1975)
 ELTON HUNSINGER (December, 1979)
 ELLAMAE JACKSON (August, 1971)
 ROYCE O. JOHNSON (May, 1973)
 WARREN I. JOHNSON (May, 1977)
 ELINOR R. KEEFER (July, 1968)
 MARGARET C. LEFEVRE (December, 1976)
 CYRIL A. LINDQUIST (May, 1975)
 MARY E. MACDONALD (May, 1969)
 PAUL G. MARTIN (July, 1976)
 LUCY McCAMMON (January, 1958)
 MARGARET E. McCERN (May, 1976)
 HILDEGARD PESTEL (August, 1974)
 ETHEL A. RANSON (January, 1954)
 GWENDOLYN REAMS (August, 1976)
 HERBERT H. REICHARD (May, 1971)
 KENNETH A. ROBERTS (August, 1972)
 J. ALMUS RUSSELL (May, 1965)
 WALTER S. RYGIEL (January, 1968)
 MERRITT W. SANDERS (September, 1977)
 MARTIN A. SATZ (May, 1979)
 RUSSELL F. SCHLEICHER (May, 1962)
 ANNA G. SCOTT (May, 1956)
 JOHN J. SERFF, SR. (May, 1975)
 CECIL C. SERONSY (May, 1973)
 RUTH D. SMEAL (December, 1978)
 JANET STAMM (May, 1977)
 WILLIAM B. STERLING (May, 1973)
 GEORGE G. STRADTMAN (August, 1972)
 THOMAS G. STURGEON (May, 1977)
 WILBERT A. TAEBEL (May, 1976)
 JAMES B. WATTS (February, 1978)
 ELIZABETH B. WILLIAMS (August, 1969)
 M. ELEANOR WRAY (May, 1977)

*The date in parentheses is date of retirement.

1. GENERAL INFORMATION

1.1 INTRODUCTION

Bloomsburg State College, as one of the fourteen state-owned institutions of higher education in Pennsylvania, has been charged by the Commonwealth 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..."

The arts and sciences are regarded as fundamental to all of the activities implied by this charge. During the past several years, the College has moved to strengthen the academic departments and to expand the range of services through the addition of pre-professional programs, continuing education, programs in the health-related sciences and business administration.

In addition to undergraduate programs the College offers masters degrees in a variety of academic disciplines.

1.2 ORGANIZATION

Bloomsburg State College is organized in five schools, Arts and Sciences, Professional Studies, Business, Extended Programs and Graduate Studies. The scope and internal structure of each school is described in the appropriate chapter of this catalogue.

1.3 LOCATION

The Town of Bloomsburg, county seat of Columbia County, is an industrial, trading, and residential community of 11,000 located on Route 11, 80 miles north of Harrisburg. It is within two miles of two interchanges of Interstate 80.

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

1.4 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.

Largely through the efforts of J.P. Wickersham, Superintendent of Public Instruction, **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**.

The emphasis at the Normal School changed during the early 1920's from secondary and college-preparatory courses for special teachers to full-time teacher education. In May 1927 the institutional name was changed to Bloomsburg State Teachers College, authorized to grant a Bachelor of Science in Education for teachers in elementary and secondary schools.

Under the administration of President Francis B. Haas (1927-1939), great progress was made in the teacher education program; in 1930, a new field was added with the degree program in Business Education. Several new buildings were constructed and 18 acres of land added to the campus.

Upon the appointment of Dr. Haas as State Superintendent of Public Instruction, Dr. Harvey A. Andruss, then Dean of Instruction and a former Di-

rector of the Business Education Department, was appointed president, a position he held until his retirement in 1969. During World War II, the US Navy V-12 Officer Training Program was conducted on the Bloomsburg Campus, a fact still commemorated by the name of Navy Hall. In 1957, a Division of Special Education was inaugurated, which is still housed in that building.

The major expansion of the College in buildings, faculty, and student body took place after that, full-time enrollments rising from 1,743 in 1960 to 4,913 in the fall of 1978. In 1960 the name of the school was changed to **Bloomsburg State College**; authorization was received shortly thereafter to grant the Bachelor of Arts degree 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 and in 1970 for the degree, Master of Science.

The college now exists as a multiple-purpose institution offering liberal arts, business and teacher education curricula at the undergraduate and master's degree levels, and other professional curricula in vocations other than teaching.

1.5 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 recognized by the American Chemical Society for excellence in its Chemistry department. (see Chemistry).

1.6 BUILDINGS AND FACILITIES

Campus

The campus of Bloomsburg State College comprises two tracts called the Lower Campus and Upper Campus, with total area of 173 acres.

The Lower Campus comprises the original campus and adjacent areas subsequently acquired. It contains the residence halls, dining hall, college store, administration building, auditorium, library, academic buildings and recreation areas. The Upper Campus, a half mile from the Lower Campus, contains the E.H. Nelson Field House, the Redman Stadium, the Litwhiler Baseball Field and three practice areas. Long-range plans presume further development of the Upper Campus for academic and recreation purposes.

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, foreign languages, speech, economics and political science. 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, 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, mathematics, and geology and earth sciences.

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 several laboratories and classrooms for physical sciences. William Boyd Sutliff, for whom the building was named, was a teacher of mathematics and the first Dean of Instruction of 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 work in special education and communication disorders and provides a number of other classrooms and offices.

Science Hall, often called "Old Science" to distinguish it from Hartline Science Center, was built in 1906. It houses the Departmental offices of History and Psychology and has several classrooms and some facilities used by the Art Department.

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.

E.H. Nelson Field House. This building, located on the Upper Campus, was completed in 1972. It provides a varsity basketball court and folding bleachers for 2,600 spectators. There is 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 are included. The building is used for health and physical education classes, varsity athletic contests, and for other activities requiring seating of large audiences.

Bus transportation is provided between this building and the Lower Campus.

Dr. E.H. Nelson, for whom the building is named, was for many years Director of Athletics.

Residence Halls, Dining Rooms, College Union

Columbia Hall, completed in 1970, is a seven-story residence hall for four hundred students. It contains lounges, study rooms, recreation areas, a special projects rooms, guest rooms, and apartments for counsellors.

Elwell Hall, completed in 1968, is a nine-story residence hall which can accommodate 678 students. 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 students. It includes lounge and recreation areas, study rooms, and apartments for counsellors.

Lycoming Hall, the newest addition to our residence hall community, officially opened during the fall of 1976. In addition to housing 250 students, the building offers lounges, study rooms, recreation areas, special project facilities, and an apartment for the resident dean.

Montour Hall and Schuylkill Hall, four-story residences completed in 1964, each houses 250 students. Each hall is divided into two wings, complete with recreation and lounge facilities, study rooms, and apartments for resident staff members.

Northumberland Hall, completed in 1960, accommodates 200 residents. There are lounge and recreation areas, study rooms, and apartments for staff members. (Lycoming, Luzerne, Columbia, Montour, Schuylkill and Northumberland are names of counties from which many students come to Bloomsburg.)

The alignment of halls according to coed and single sexed is subject to revision based upon male/female enrollment figures and current student needs.

William W. Scranton Commons, completed in 1970, is an air-conditioned dining facility with one thousand seats and with a capacity to serve 2900 students at each meal. Folding partitions permit flexibility of arrangement. A faculty dining room and two lounges are in the building. William W. Scranton was Governor of Pennsylvania from 1963 to 1967.

College Store. This building was completed in 1956 and used until 1970 as the college Commons and from 1970 until 1973 as a temporary Union. The building has been remodeled and is now used as the College Store for the sale of textbooks and supplies.

Marguerite W. Kehr College Union. The Kehr Union Building houses a commercial branch bank, a formal lounge, a snack bar and dining area, a multi-purpose room, mail room and mailboxes for commuting students, game room, television room, listening room, offices for student organizations and publications, the college infirmary, an information center, bowling alleys, a travel service, the Community Activities office, and storage area. Its name honors the late Dr. Marguerite W. Kehr, who was Dean of Women at the College, 1928 to 1953.

Administration and Service Buildings

Waller Administration Building. This structure, completed in 1972, contains administrative offices, vaults, conference rooms, a centralized area for the Business Office and an area for receiving, storing and distributing college supplies and equipment. The building is named for D.J. Waller, Jr., who served for twenty-seven years as principal of the normal school.

Francis B. Haas Center for the Arts, completed in 1967, contains a two thousand seat auditorium with its stage planned for 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 500 readers, shelving for 270,000 volumes, as well as over 670,000 units of microtexts. The library subscribes to 830 periodicals and over 20 newspapers. The Learning Resources Center has study prints, transparencies, films, filmstrips, filmloops, audio tapes, disc and cassette recordings. All of these materials and certain pieces of equipment may be borrowed for class use. 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.

Carver Hall, built in 1867, is the oldest building on the campus. It contains a 900-seat auditorium and the office of the President.

Buckalew 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.

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

Parking Garage. A multi-level concrete structure completed in 1972 accommodates approximately 200 cars.

Athletics and Recreation Areas

Redman Stadium, designed for football, soccer and track events, and located on the Upper Campus, was completed in 1974. Permanent concrete bleachers on the west side provide seating for 4,000 spectators, and movable bleachers on the east side increase the total seating capacity to nearly 5,000. There is a press box for radio, television and newspaper personnel. An eight-lane, all-weather track and specialized areas for field events are part of the field.

Robert B. Redman, for whom the stadium is named, was assistant dean of men and head football and baseball coach from 1947 until 1952. Teams which he coached gained state and national recognition.

Litwhiler Field, a baseball field completed in 1974, is located east of Redman Stadium. It was named in honor of Danny Litwhiler, who is currently head baseball coach at Michigan State University. Litwhiler, who was coached by Dr. E.H. Nelson, starred at Bloomsburg in the late 1930's and played for several major league baseball teams prior to beginning his career as a college baseball coach at Florida State University.

Practice Fields. Three practice fields are included in the total athletic complex on the Upper Campus.

1.7 BLOOMSBURG FOUNDATION

The Bloomsburg Foundation was established in 1970 as a non-profit educational corporation 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; its funds are used to assist the College in carrying out its educational mission.

1.8 COMPUTER SERVICES CENTER


Bloomsburg State College has made extensive use of computers for more than a decade. The Computer Services Center, located in Benjamin Franklin Hall, serves the diverse needs of the academic, administrative and research communities on campus.

In 1966 the college installed its first computer, an IBM 401. It was replaced with a Spectra 70-35 in 1970, and in 1972 the college moved into another generation of hardware and purchased a UNIVAC 70/3 with access for ten terminals. Peripheral to the UNIVAC was a system including six disc drives, four magnetic tape units, two high speed line printers, a card punch and a card reader.

Increased use of the computer as an instructional, managerial, and research tool justified the installation of a UNIVAC 1100-21, a most powerful and versatile central processing unit with a main memory storage of one million bytes (megabyte) or characters of information. This new computer possesses four times the memory storage and on-line disk mass storage, and four times faster processing time than the previous computer. The new system is directly accessible by both Center and remote terminals and will support fifty-nine interactive users.

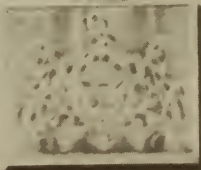
Educationally, within many academic programs including the Computer and Information Sciences major, students are exposed to the contemporary computer and the data processing technology of a data-based system, on line inquiry, time sharing, program development from a terminal, and dynamically changing files. Faculty working directly with the computer have increased time to use computer assisted instruction material (CAI) such as tutorials, drills and simulations to supplement classroom and lab instruction.

Conversion to the new system is scheduled for completion during the 1980-81 academic year.



CARVER HALL

BLOOMSBURG
STATE COLLEGE



2. EXPENSES, FEES AND REFUNDS

(Fees are subject to change without notice.)

2.1 COMMUNITY ACTIVITIES FEE

A Community Activities Fee of \$35.00 per semester is charged each full-time undergraduate student. Community Activities fees finance student activities in athletics, lectures, student publications, general entertainment, student organizations, and other student-supported programs.

2.2 BASIC FEES

Semester Fees, Full-Time Undergraduate Students

The basic semester fee for full-time students who are residents of Pennsylvania is \$550.00. An extra fee of \$46.00 per semester hour is charged for loads in excess of 18 semester hours in any one semester.

Fees, Part-time Students, Pennsylvania Residents

Undergraduate students who take fewer than twelve semester hours in a semester pay fees of \$46.00 per semester hour.

Fees, Graduate (In-State or Out-of-State)

Graduate students pay a fee of \$550.00 for 9 to 15 semester hours and \$62.00 per semester hour for loads of less than 9 or in excess of 15 semester hours.

Fees, Out-of-State Undergraduate Students

Out-of-State undergraduate students pay fees of \$965.00 for 12 to 18 semester hours in one semester and \$81.00 per semester hour for loads of less than 12 or in excess of 18 semester hours.

The definition of out-of-state student may be obtained from the Business Office.

Changes in Fees, or Costs

All fees, or cost, are subject to change without notice. If billing is prior to change, student accounts will be charged, or refunded, after the fact. Fees and other costs listed in this publication are those in effect, or applicable, on April 30, 1980.

Charges for dining hall meals are adjusted annually after the end of the academic year. The adjustment under the food service contract currently in force is based on the wholesale price index.

Summer Session Fees

Undergraduate students pay fees at the rate of \$46.00 per semester hour.

Graduate students pay \$62.00 per semester hour.

These summer fees apply to Pennsylvania residents and out-of-state students.

2.3 HOUSING FEES

Residence Halls

Accommodations in a campus residence hall cost \$335.00 per semester for double occupancy, and \$305.00 for triple occupancy during the academic year. The summer session housing fee is \$19.00 per week for double occupancy, and \$24.00 per week for students requesting a single room.

All students who live in campus residence halls are required to take their meals in the campus dining hall under either of two food service plans: \$264.00 per semester for 20 meals per week, and \$250.00 per semester for 15 meals per week during the academic year. The summer session food service charge is \$20.00 per week for 20 meals, and \$15.00 per week for 15 meals. Fees for food service are payable with the housing fees as a combined charge.

Housing and food service fees are the same for both Pennsylvania residents and out-of-state students.

Keys

A fee of \$15.00 is charged for replacing a lost room key.

2.4 ADVANCE PAYMENT OF FEES

An *Advance Registration Fee* of 10 percent of the basic fee 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 (\$70.00) is payable when a student is approved for admission for the Fall Semester or when a former student is approved for readmission after being out of school for one or more semesters.

An Advance Housing deposit of \$50.00 is required and payable to reserve a room accommodation and negotiate a housing contract for the academic year. This deposit must be paid prior to room assignment and is credited to the housing charge for the current semester. This deposit is refundable only under certain conditions adjudged appropriate by the Director of Housing.

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 Director of Administrative Services.

2.6 MEALS FOR OFF-CAMPUS RESIDENTS

Students who live off campus may take their meals in the dining hall if space is available. The rate for 15 meals per week is \$250.00 per semester, and for the 20 meals per week is \$264.00 per semester. (See section 2.2 — changes in fees or costs).

Daily Rate for Transients

The daily rate for transient meals and lodging is:

Breakfast	\$1.00	Dinner	\$1.95
Lunch	1.25	Room	2.00

Arrangements for room guests must be approved by the resident dean of the hall where the guest will be housed.

2.7 ORIENTATION FEES

Summer orientation fee for Fall freshmen and new students in the Center for Academic Development program — \$29.50.

Summer orientation fee for transfer students — \$15.50.

Orientation fee for Summer freshmen — \$9.25.

Orientation for January freshmen and transfer students — \$3.50.

2.8 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.

Application Fee

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

Student Community Building Fee

A fee of \$10.00 per semester is charged for regular sessions; \$1.00 for one to three weeks summer session, and \$2.00 for four to six weeks summer session.

2.9 REFUND POLICIES

Application Fee

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

Advance Registration Fee

The Advance Registration Fee (\$50) is not refundable.

Basic Fee

Fees for tuition are eligible for refunds when the student withdraws from college. All refund requests must be submitted in writing to the Business Office, Waller Administration Building. A student is eligible for consideration for a refund for any reason approved by the President or the President's designated official, or illness certified by a physician. The refund schedule will apply also to all

part-time students. Except for forfeit of advanced deposits, listed above, refunds for basic fees will be based on the following schedule applicable after the first full class day:

1st through 2nd week	3rd week	4th week	5th week	after 5th week
80%	70%	60%	50%	No refund

Refund schedule for the summer sessions is published in the Summer Session catalogue.

Community Activities Fee

Freshmen or other new students may apply for a full refund (\$70.00) if written application is received by the Student Life Accountant, Community Activities Office, prior to the beginning of the Fall Semester and if one of the following circumstances pertains: 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 (\$35.00) is granted if written application is received prior to August 1 for the Fall semester and if reasons other than those specified above determine the student's decision not to enroll.

A refund of \$35.00 may be granted if written application is received by the Student Life Accountant, Community Activities Office prior to registration for the Spring semester and if one of the following circumstances pertains: withdrawal by the College of the offer of admission; induction into the Armed Forces; illness certified by a physician as preventing enrollment. If reasons other than those specified above determine the student's decision not to enroll, then a refund will not be granted for the Spring semester.

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. No refunds are made for the \$50.00 Housing deposit when housing contracts are broken on voluntary withdrawals from college.

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.

2.10 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.

3. STUDENT LIFE AND SERVICES

3.01 INTRODUCTION

It is desirable for each student to become involved in extra-curricular 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.

Commuting students are urged to work out travel schedules which permit them to spend as much time as possible on campus and to participate in activities.

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

3.02 COLLEGE POLICY

"Bloomsburg State College exists for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth."

(Quoted from the *Pilot*, "Joint Statement on Rights, Freedoms, and Responsibilities of Students.")

Students are responsible for the rules, policies, and regulations as stated in the Catalogue, Pilot (Student handbook), and the Residence Hall Manuals. The Bloomsburg State College Joint Statements on Rights, Freedoms and Responsibilities of Students has been acknowledged as a guiding principle in the normal operation of the College.

3.03 STUDENT FINANCIAL AID

The financial aid programs available at Bloomsburg State College include grants, loans, part-time employment, and scholarships. Programs sponsored by the Federal Government include Basic Educational Opportunity Grant (BEOG), Supplemental Educational Opportunity Grant (SEOG), National Direct Student Loan (NDSL), and College Work-Study (CWS). The Commonwealth of Pennsylvania-sponsored programs include PHEAA Grants, Guaranteed Student Loans, and Institutional (State) Student Employment. Other state agencies sponsor state grants and guaranteed student loan programs. Students who are residents of states other than Pennsylvania should contact their state higher education departments for further information.

Limited financial assistance is available to continuing Bloomsburg State College students through Bloomsburg State College Scholarships. Interested students should contact the BSC Financial Aid Office directly.

All students wishing to apply for financial assistance must complete the Pennsylvania State Grant/Basic Grant Application. This application is available from the Financial Aid Office, high school guidance counselors, or PHEAA, Towne House, Harrisburg, Pa. 17102. The financial aid brochure *Bucks for Huskies* further outlines the various financial aid programs available and the application procedure for each. *Bucks for Huskies* is distributed to all BSC students and is available upon request from the Financial Aid Office.

All financial aid programs are regulated by the Department of Health, Education, and Welfare, the Pennsylvania Higher Education Assistance Agency (PHEAA), and/or Bloomsburg State College policy. Accordingly, it is important to understand that a student may lose financial aid by failing to maintain academic good standing (or minimal progress toward academic good standing) as prescribed in the *Bloomsburg State College Undergraduate Catalog* under Sections 5.05 and 5.06 or *Bucks for Huskies* (page 3). A student must also *earn* a minimum of 24 credit hours per academic year of enrollment (i.e. Fall and Spring Semesters) to continue to receive financial assistance. (See *Bucks for Huskies* — page 2).

Further information concerning financial aid may be obtained by contacting the Financial Aid Office, Rm. 19, Ben Franklin Building, or by calling (717) 389-3908.

3.04 STUDENT HOUSING

On-Campus Residency

The college residence hall community comprises seven modern residence halls which provide accommodations for approximately 2,500 undergraduate students. The residence halls are described in section 1.6, Buildings and Facilities.

Although students' housing preferences are considered whenever possible, the College reserves the right to assign rooms and roommates within the residence hall system.

Housing and food services are provided only on a combined basis for students living in the residence halls. Housing and food contracts are binding until the end of the academic year and may not be transferred or reassigned.

Freshmen under 21 years of age are required to reside on campus or commute from the homes of their parents. If extenuating circumstances justify other housing arrangements, a written request for waiver of this residency requirement must be submitted to the Director of Housing.

Although transfer students may indicate a preference for residence hall accommodations, on-campus housing is not guaranteed. Transfers who wish to live in the campus residence halls should contact the Director of Housing upon acceptance to the college.

Upperclass resident students may continue to live on campus as long as they satisfy the residence hall eligibility requirements. Any resident student who has earned 65 semester hours or less at the completion of any Fall semester is eligible to participate in the room selection lottery for the following academic year. This policy allows most resident students to live on campus up to, but not including, their senior years, at which time they must seek off-campus accommodations for their final year of study. This eligibility requirement is subject to revision in response to changes in student demand for on-campus accommodations.

Details about residence hall rules and regulations are printed in the *Pilot*, residence hall manuals, the Terms and Conditions of Occupancy, and other housing literature.

Off-Campus Residency

The College does not approve or recommend residences off campus; therefore, all accommodations in this category are considered "independent". However, the Housing Office does serve as a referral agency, collecting data about off-campus housing opportunities, preparing housing directories, and providing other useful information to student tenants and their landlords. Before any rental property is accepted for listing in the college's off-campus directory, the owner must submit his/her premises to an annual inspection by the town building

inspector and must sign a statement pledging not to practice illegal discrimination in the rental of his/her properties. In addition, rental properties must meet the town's building code requirements and comply with housing standards set forth by the Pennsylvania Department of Labor and Industry.

Since the college does not assign students to off-campus housing, the student must rely upon his/her own initiative to find suitable off-campus accommodations.

The college does not become involved in the tenant-landlord relationship, except when the Housing Director is called upon by either party to enhance communications or understanding between the two. All involvement by the Housing Director and any advice given is purely on an informal, non-legal basis.

Students planning to live off campus should have a clear understanding of their rights and responsibilities as tenants. To help students become more knowledgeable tenants, the Housing Office prepares information on topics of interest to off-campus renters. Brochures and pamphlets are available on such subjects as security deposits, leases, discrimination, food stamps, nutrition, fire safety in the home, model rental contracts, home repairs and energy conservation. Street maps of the town of Bloomsburg, pre-occupancy check lists, office copies of the local housing code and Pennsylvania Department of Labor and Industry regulations, and articles on reading and understanding leases are also available to interested students. Upon request, the Director of Housing will help student renters conduct pre- and post-occupancy inventories of their apartments/rooms or serve as an impartial observer for alleged violations of the building code or other ordinances.

Off campus students are advised to obtain insurance protection for their belongings, since most landlords do not assume liability for loss of, or damage to, the personal property of their tenants.

Students residing off campus bear a dual responsibility as citizens of the Town of Bloomsburg and as members of the college community. The college cannot provide sanctuary from the law nor can be indifferent to its reputation in the community it serves.

3.05 COMMUNITY GOVERNMENT ASSOCIATION

All full-time undergraduate students are members of the Association. Graduate students and full-time faculty members who have paid their Community Activities Fee are also members. College Council meetings are held Monday evenings in the Multi-purpose room of the Kehr Union. The executive council, which consists of the officers and two council representatives, meets on the alternate Monday evening of the month.



3.06 STUDENT ORGANIZATIONS AND ACTIVITIES

3.06.1 ORGANIZATIONS

Students are encouraged to take part in at least one extracurricular activity per semester. The approved student organizations are:

- | | |
|--|--|
| Alliance For Student Voters | Luzerne Hall |
| Amateur Radio Club | Lycoming Hall |
| American Advertising Federation | Madrival Singers |
| American Chemical Society | MAN (Man and Nature) |
| Appalachian Marketing Club | Maroon and Gold Band |
| The American Society for Personnel Administration | Mathematics Club |
| Association for Childhood Education International | Medical Technology Club |
| * Association of Resident Students | Montour Residence Hall |
| Biology Club | Music Educators National Conference |
| Bloomsburg Players | Newman Student Association |
| Bloomsburg Christian Fellowship | Northumberland Hall |
| Campus Voice | Obiter |
| Cheerleaders | Off-Campus Students Association |
| Chess Club | Olympian |
| Christian Community Gathering | Orthodox Christian Fellowship |
| Circolo Italiano | Outing Club |
| College Community Orchestra | Phi Beta Lambda |
| Circle K | Philosophy Club |
| College Union Program Board | Psychology Association |
| * College Union Governing Board | Radio Station |
| Columbia Hall | Russian Club (Balalaika) |
| * Community Government Association | Sailing Club |
| Community Arts Council | Schuylkill Hall |
| * Commuters Association | * Senior Class |
| * Commonwealth Association of Students | Ski Club |
| Concert Choir | Society of Physics Students |
| Council for Exceptional Children | * Sophomore Class |
| Die Deutsche Ecke | Sociology Club |
| Diplomatic Society on Human and International Ties | Spanish Club |
| Earth Science Club | Student Speech & Hearing Association |
| Economics Club | Student PSEA |
| Elwell Hall | Studio Band |
| Fellowship of Christian Athletes | Student Art Association |
| Fiddlers Green | Students International Mediation Society |
| Forensic Society | Student Nursing Association |
| * Freshman Class | Table Tennis Club |
| Horticultural Club | Third World Culture Society |
| Humanities Club | Transfer Club |
| Husky Singers | Undergraduate Alumni Association |
| Ice Hockey Club | United Women's Organization |
| Intercollegiate Bowling Club | Veterans Association |
| International Relations Club | Volleyball Club |
| Jewish Fellowship | The Way, Campus Outreach |
| * Junior Class | Weightlifting Club |
| Karate Club | Women's Choral Ensemble |
| Lacrosse Club | Womens Recreation Association |
| LeCercle Francais | Young Democrats |
| | Young Republicans |
| | Youth C.A.R.C. |

*These organizations serve large constituencies.

3.06.2 PUBLICATIONS

Students who are interested in journalism have an opportunity to join the staffs of the student publications and to take courses which lead to a Certificate in Journalism.

Through this activity, a student can contribute significantly to campus life and at the same time gain valuable experience for future work in either commercial or school journalism.

Requirements for the Certificate in Journalism are given in Chapter 7.

CAMPUS VOICE

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 year. It is funded by the CGA and is distributed free to members of the Senior class upon graduation. Other members of the college community may purchase copies.

OLYMPIAN

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

PILOT

The official student handbook is edited by students under the supervision of the Vice President for Student Life. It contains essential information about student life and services.

TODAY

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

THIS WEEK

A weekly publication from the Office of the Student Activities and College Union announces special activities planned by the College.

3.06.3 HONOR AND PROFESSIONAL SOCIETIES

National honor and professional societies foster educational ideas through scholarship, social activities, and moral development. Campus chapters are:

Alpha Psi Omega	Phi Sigma Iota
Delta Mu Delta	Phi Sigma Pi
Delta Phi Alpha	Phi Alpha Theta
Gamma Theta Upsilon	Pi Kappa Delta
Kappa Delta Pi	Pi Omega Pi
Kappa Kappa Psi	Psi Chi
Kappa Mu Epsilon	Sigma Tau Delta
Omicron Delta Epsilon	Society for Collegiate Journalists
Phi Kappa Phi	Tau Beta Sigma

3.06.4 SOCIAL FRATERNITIES AND SORORITIES

The Inter-Fraternity Council (IFC) serves as the governing body of the nine social fraternities, and coordinates rushing, pledging, and programming. The fraternities, with dates of organizations, are:

Beta Sigma Delta	1966	
Delta Omega Chi	1965	
Delta Pi	1967	
Kappa Alpha Psi	Probationary	
Lambda Chi Alpha	1967	National September 1970
Alpha Chi Rho	1966	National May 1980
Sigma Iota Omega	1964	
Tau Kappa Epsilon	1976	
Zeta Psi	1966	National September 1969

The Inter-Sorority Council (ISC) is composed of representatives of the eight 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:

Alpha Sigma Tau	1967	National 1979
Alpha Sigma Alpha	1979	National 1979
Chi Sigma Rho	1967	
Delta Epsilon Beta	1966	
Lambda Alpha Mu	1964	
Phi Iota Chi	1974	
Sigma Sigma Sigma	1967	
Theta Tau Omega	1968	

3.06.5 SERVICE

Alpha Phi Omega (1963) is dedicated to providing service to the campus and community at large. Membership is open to any second semester freshman with a 2.0 or higher average.

3.06.6 KEHR COLLEGE UNION

The Kehr College Union contains the following facilities: Ground Floor — bank, games area, bowling alley, post office, formal lounge, television rooms, and locker rooms; First Floor — snack bar, multipurpose rooms, health center, information desk, duplicating room, typing room, and administrative offices; Second Floor — offices for student organizations, student publications' offices, radio station, coffeehouse, conference rooms, listening room, and Community Activities Office.

The Program Board plans the activities held in the Union; the College Union Governing Board authorizes policies and procedures for the use of the building and the College Store.

3.07 SERVICES

Dining Room/Snack Bar

The William W. Scranton Commons contains two main dining rooms which can be partitioned to provide a total of four dining areas seating 250 each. Cafeteria style food services are furnished by a professional food service contractor.

All students living in the campus residence halls are required to purchase meal tickets. Off-campus students may apply to purchase meal tickets at the Student Life Office, Room 11, Benjamin Franklin Building.

The transfer, misuse, or falsification of a meal ticket is reason for college disciplinary and legal action.

Members of the College community may eat in the College Commons at published transient rates, or they may be served, restaurant-style, in the all-college dining room, which is open Monday through Friday for lunch.

Group meals are available to campus organizations; these may be arranged through the Student Life Office subject to approval of the Business Office, 48 hours in advance of the event. Banquets and parties for outside groups may be reserved by the same procedure 30 days in advance.

There is a Snack Bar in the Kehr Union Building which serves snacks and light meals to students, members of the College community, and visitors to the campus.

College Health Center

The College Health Center is located on the first floor of the Kehr Union Building. All students seeking health care or counseling about a health problem should report to the Health Center between the hours of 7:00 a.m. to 11:30 p.m. Monday through Friday. When the Health Center is closed, students may report directly to the Bloomsburg Hospital Dispensary.

The College Health Center is staffed by a registered nurse and serves as a walk-in clinic at no expense to the student. At the request of a student, physician's appointments may be made by the nurse on duty. Physician's fees and other medical expenses are the responsibility of the student or parent/guardian.

Ambulance Service

Ambulance service paid for by the Community Government Association is available to students of the College. Students may benefit from this service while living on campus, in off-campus housing, or if an accident occurs within a reasonable distance of the College. See the *Pilot* for instructions for calling an ambulance.

Student Insurance

Accident and sickness insurance coverage is **REQUIRED** by Bloomsburg State College. Students not having appropriate coverage must enroll in the insurance plan offered by the College.

The current policy will pay up to \$1,000 for medical expenses incurred within 52 weeks from the date of the first treatment for each sickness or accident which causes loss commencing during the term insured. Each sickness will be covered on an allocated basis, i.e. specific amounts for hospital room, surgical operations, up to \$10 per visit to the physician starting with the second visit, etc. A major medical clause will reimburse a student for 80% of all reasonable expenses actually incurred in excess of \$1,000 up to but not to exceed \$3,000. Coverage for dependent's spouse, as well as children up to 19 years of age, and maternity coverage is also available. This policy is in effect 24 hours a day, for 12 months. An enrollment period of three weeks will occur at the beginning of each semester and summer school.

Filing of all claims will be the responsibility of the student. An itemized bill must be submitted with claims. The forms are available at the College Health Center.

Athletic Insurance

All students participating in intercollegiate sports have insurance coverage up to \$92,000 paid for by the Community Government Association. Athletic insurance covers injuries arising while practicing for, playing, and traveling as a member of an athletic team but does not cover injuries sustained in intramural sports or other injuries or illnesses.

The Center for Counseling and Human Development

The Counseling Center makes available the services of four professionally trained counselors (Charles Thomas, Robert Davenport, John Scrimgeour, Kay Camplese). Services of the Center are available to any regularly enrolled student with problems of educational, vocational, personal, social or emotional concern. All contacts are confidential.

Also available in this office are the applications for the College-Level Examination Program (CLEP), Graduate Management Admissions Test (GMAT), Law School Admission Test (LSAT), Graduate Record Examination (GRE), and the National Teachers Examination (NTE).

Students should seek counseling without hesitation when a problem adversely affects them. Through its program, the Center works to prevent as well as to resolve problems. Inquiries about programs or personal appointments are welcomed and can be made by going to Room 17, Ben Franklin Building or calling 389-3718.

Banking

A full service branch of the Bloomsburg Bank-Columbia Trust Co. is located on the ground floor of the Kehr Union Building. The services available to faculty, staff, and students include conventional checking and savings accounts, money orders and Treasurer's checks, Christmas clubs, Vacation clubs, Traveler's checks, repayment of loans and handling P.P.&L. and Pa. Gas & Water Co. bills.

The hours are as follows: Monday and Tuesday: 10:00 a.m. to 4:00 p.m.; Wednesday: 9:30 a.m. to 11:30 a.m. and 1:00 p.m. to 4:00 p.m.; Thursday: 10:00 a.m. to 4:00 p.m.; and Friday: 10:00 a.m. to 8:00 p.m. Closed weekends.

College Store

The College Store sells books and supplies needed during the year. It is open from 8:00 a.m. to 7:55 p.m. on Monday, 8:00 a.m. until 4:30 p.m. on Tuesday through Friday and from 8:30 a.m. until noon on Saturday.

College Post Office

Mail is delivered to campus residence halls once daily, Monday through Friday. A central post office in Kehr Union provides combination boxes for off-campus students.

The Community Arts Council

The Community Arts Council is supported by the Community Government Association. The Council consists of twenty members with equal membership of students and faculty, a community representative, and the Director of Cultural Affairs.

The Community Arts Council sponsors programs in the performing arts, lectures, and artists-in-residence. These events are without charge to faculty and students who purchase a Community Activity card. Area residents who purchase Community Patron cards are also admitted to cultural events free. A Cultural Affairs schedule is published each fall and spring. A monthly newsletter is sent to all patrons of the Community Arts Council.

Haas Gallery of Art

Works of art are exhibited throughout the year in the Haas Gallery under the direction of the Department of Art. Exhibitions are held monthly and a special exhibition of student work is held annually.

Permanent Art Collection

The department of art maintains a permanent art collection with works displayed throughout the campus.

Speech, Hearing and Language Clinic

This Clinic, located in Navy Hall, provides a number of services to students, faculty, staff and total community. Evaluative services are available in speech, voice, language, hearing, and educational-psychological services. Therapeutic services offered are speech and language therapy, auditory training, speech reading, educational therapy, and parent counseling. Services of the Clinic are free to Bloomsburg State College students, faculty and staff.

Career Development and Placement Center

The Career Development and Placement Center offers career counseling and planning services to all Bloomsburg undergraduate, graduate, continuing education students, and alumni. In addition to individual career counseling, an up-to-date Career Laboratory, containing printed materials and audiovisual equipment, is available to students who are planning their individual career options. The Career Development and Life Planning Course, offered by the Educational Studies and Services Department, provides a unique opportunity for underclassmen in particular to become actively involved in the process of making decisions about careers. Career information and job hunting seminars, workshops, and programs sponsored by the Center are held throughout the year.

Seniors and alumni are invited to utilize the placement services offered by the Center. Placement files established by registrants are distributed to potential employers. Campus interviews for seniors and vacancy lists help to keep job hunters abreast of trends in the employment market.

Veterans' Office

An office for veterans is maintained in Benjamin Franklin Building by veterans who are full time students to assist veterans with personal problems, especially those related to housing, employment, health, recreation, vocational and technical training and financial assistance, and to provide liaison with other administrative offices. The Office of Veterans' Affairs is under the direction of The School of Extended Programs. Required reports to the Veterans' Administration are sent from the Registrar's Office.

3.08 QUEST

A program of outdoor pursuits in education has been developed under the title QUEST. Its activities aim to encourage characteristics such as responsibility, leadership, self-confidence, trust, loyalty, initiative, self-discipline, and sensitivity through personal experiences in field trips, field study, and certain types of experiential education away from campus. Certain of the experiences may be designed to permit cooperating departments to offer academic credit to students who participate. Participation is not confined to college students, but may include faculty and other individuals from a wide range of ages.

The actual activities offered to accomplish the QUEST objectives are: rock climbing, backpacking, canoeing, sky diving, hang gliding, rafting, bicycling, cross country skiing, along with exposures to new cultures within our society. Equipment for most of the activities is available at no cost to the participants. There is also a special five-day outdoor experience offered to all incoming freshmen students in conjunction with their summer orientation program which is called "Up Reach."

3.09 ATHLETICS, INTRAMURALS, RECREATION

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

The intercollegiate program includes: baseball, basketball, cross country, football, golf, soccer, swimming, tennis, track and wrestling for men; basketball, field hockey, cross country, lacrosse, softball, swimming, tennis, golf and track for women.

Intramural sports for men include: baseball, tennis, track, cross country, horseshoes, soccer, water polo, weight training, softball, basketball, table tennis, volleyball, wrestling, gymnastics, golf, handball, racquetball and straight pool.

Intramural sports open to all women students are planned to promote wide participation and to foster a spirit of sportsmanship. Activities include: volleyball, cageball, basketball, badminton, shuffleboard, table tennis, softball, horseshoes, flag football, bowling, tennis, racquetball, and floor hockey.

Intramural Co-educational sports include: teniquoit volleyball, softball, tennis, horseshoes, golf and racquetball.

Athletic facilities are made available for recreational use by students when not occupied for instruction, intercollegiate athletics or intramurals.

3.10 AUTOMOBILE REGISTRATION

Operation of a motor vehicle on the college campus is a privilege explained in the Motor Vehicle Regulations Manual available in the Office of Safety and Security.

All staff, faculty, evening division students, graduate students, students over 21 years of age, students who are veterans attending under the G.I. Bill, non-resident students, Juniors and Seniors must register any motor vehicle they drive on the campus. Parking decals are to be obtained at the Safety and Security Office within 24 hours after employment, registration, or arrival on campus. Failure to adhere to this provision will result in a \$5.00 penalty. Students may obtain only one valid decal at a time, however, emergency situations may warrant issuance of a temporary permit. There is no cost for decals.

Freshmen and Sophomores living on campus are not eligible to operate and/or park a motor vehicle on the campus unless given special permission.

Moving violations such as failing to obey stop signs, driving against traffic on a one-way street, reckless driving and driving too fast for conditions are chargeable under the Pennsylvania Motor Vehicle Code.

3.11 STUDENT GRIEVANCE POLICY

A Student-Faculty Judicial and Grievance Committee shall investigate and make recommendations on alleged administrative, instructional, or student organization injustices. It will hear cases after normal recourse for grievances has been exhausted. Four faculty members and four students are voting members, and the Dean of Student Life and the appropriate Academic Dean serve as non-voting, *ex officio* members. The committee may dismiss a case adjudged lacking merit or recommend a solution to a substantiated grievance to the appropriate Vice President.

3.12 REPRESENTATIVE ASSEMBLY

The Representative Assembly seeks to apply the principle of collegiality to college governance. It is an organization of students, faculty, administrative officers and support staff, elected by their peers, to facilitate dialogue, improve

communications, and promote increased participation of the college community in policy-making.

The Assembly serves as a forum for the discussion of college matters, a framework for the maintenance of a co-ordinated committee system, and an organization to recommend college policies. Six standing committees, academic affairs, general administration, college life, campus services, human relations, and planning coordinate the work of several sub-committees and report regularly to the Assembly.





4. ADMISSION AND READMISSION

4.01 INSTRUCTIONS FOR CORRESPONDENCE

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

Dean of Admissions
 Bloomsburg State College
 Bloomsburg, Pa. 17815

4.02 APPLICATION PROCEDURES

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

To be a candidate for admission, one must complete and submit an official application to the Office of Admissions. The applicant is responsible for requesting the proper official of his/her secondary school to submit a transcript and personal evaluation to the Dean of Admissions.

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

Freshman applicants may apply to the college in only one of three academic categories: General Studies, Business, or Nursing. The level of competition for available positions in the latter two categories requires identification at the time of admission of individuals interested in pursuing these programs. Applicants to other programs will indicate their curriculum preference either prior to enrolling or after enrolling if they will require counseling and guidance in choosing a major. Students not admitted to Business or Nursing upon acceptance to the college are not guaranteed transfer to these curricula upon enrollment.

4.03 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, national origin, sex or physical handicap.

Applicants other than those eligible under Section 4.06 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 Dean of Admissions upon evaluation of secondary school preparation, achievement, 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.

4.04 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. A photostatic copy of the high school test report on an official high school transcript is also acceptable. No other standardized test will serve as a substitute for the Scholastic Aptitude Test.

4.05 CENTER FOR ACADEMIC DEVELOPMENT

The goal of the program of the Center for Academic Development is to equalize educational opportunity for students regardless of ethnic background or economic status.

Any individual with a high school diploma or certificate of equivalency is eligible to apply for admission to the program. Non-traditional criteria are applied in estimating potential of applicants when it appears that the environmental background may have adversely affected grades and/or standardized test scores. The Dean of Admissions may require an applicant for the Center for Academic Development to file supplementary information as is needed for proper consideration.

Opportunities for financial aid are described in a brochure which may be secured from the Office of Financial Aid. (See Section 3.03.)

Students in the program of the Center are required to participate in a summer developmental program prior to the first semester of their attendance and receive tutoring and special counseling for academic, financial and social problems.

Inquiries should be sent to the Director of the Center for Academic Development or to the Dean of Admissions.

4.06 EARLY ADMISSION

Outstanding high school students may be considered for admission upon completion of grade 11. In addition to strong achievement and high aptitude, applicants for early admission must have the unqualified endorsement of the high school to receive consideration. College credit earned may apply toward the requirements for the high school diploma.

4.07 TRANSFER STUDENTS

An applicant who has ever been enrolled, or who at the time of application is enrolled, in another college or university is a transfer applicant.

The information supplied in section 4.02, Application Procedures, and 4.03, Criteria for Evaluation, applies to transfer applicants. American College Test results may be submitted by a transfer applicant instead of the Scholastic Aptitude Test results, except that test results are not required from applicants who have successfully completed 30 or more semester hours of college credit. Transfer applicants must request each college attended to send an official transcript to the Dean of Admissions, regardless of whether credit was earned.

For a transfer student to be considered for admission, he/she must be certified as in good standing academically and otherwise in the college last attended and must have a quality point average of 2.0 or better on a 4.0 system for all courses in which passing and/or failing grades were recorded.

4.08 CAMPUS VISITS

Personal interviews are welcomed but not required. Arrangements can be made for an interview by writing or calling the Office of Admissions (717-389-3316). Applicants should bring an unofficial high school transcript if an application is not on file. Personal interviews are available Monday through Friday, 8:30 a.m. to 4:00 p.m.

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, a question-and-answer session, a tour of the campus, lunch, and academic department meetings. Participation in one of these visitation days may be more meaningful than a personal interview because appli-

cants have the opportunity to meet directly with academic faculty in the departments of their interest. Specific information and dates are available upon request from the Dean of Admissions.

4.09 OFF CAMPUS VISITATIONS

Each year, the staff in the Office of Admissions visits high schools and community colleges throughout Pennsylvania, participating in approximately 70 college night/career day programs, and the Philadelphia and Pittsburgh College Fair programs. Prospective applicants are encouraged to check with their high school or community college counselors to determine if an Admissions representative will be visiting their institution or attending a nearby college night program.

4.10 ORIENTATION

New students are required to participate in orientation sessions intended to make their start in college as smooth and effective as possible. Freshmen entering in the fall semester are scheduled for one of four Sunday to Tuesday summer orientations. There is a single one-and-one-half day summer orientation for fall transfers — also beginning on a Sunday. For students who begin their academic programs in the summer or in January, orientation is incorporated into those programs at their beginning. Orientation information is sent to new students after their acceptance by the college and their payment of admission fees. Fall freshmen receive this mailing in early May prior to their fall enrollment.

The goals of orientation are: to familiarize students with the college, its people, programs, services and facilities; to help new students meet one another; to facilitate educational and life planning, including development of good study skills and the preparation of the first class schedule; to promote good human and interpersonal relations among people of varied racial and social backgrounds; and to satisfy certain pre-enrollment requirements such as the diagnostic reading test, the new-student questionnaire and I.D. card processing. There are also opportunities for recreational, social and co-curricular activities.

Orientation helps students make a good beginning, but it cannot give them everything they must know. Students therefore, have the responsibility to read appropriate segments of the *catalog* and student handbook, to become familiar with programs and policies pertinent to them and to ask questions when a problem or concern arises. See Section 2.7 for Orientation Fees.

4.11 NON-DEGREE

Admissions procedures for undergraduate non-degree credit study are outlined in Chapter 10.

4.12 READMISSION OF FORMER STUDENTS

Students who, having been formally admitted to degree study and attended Bloomsburg State College, fail to enroll or withdraw for any academic semester, regardless of the reason, must apply for readmission if they wish to re-enter.

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

The Dean 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.

The grade and credit-entries recorded prior to readmission of a student under academic dismissal do not enter into subsequent computations of the quality point average, but the previous credit is included in his/her cumulative credit. A student may invoke this provision only once. Courses failed prior to dismissal and repeated after readmission are not subject to the repeat provisions outlined in Sections 5.01 and 5.03.

4.13 LEAVE OF ABSENCE

A student may request a leave of absence for a specified period by completing the appropriate forms at the Office of Admissions. To be eligible for a leave, a student must be in Academic Good Standing and must request the leave prior to the registration date of the intended period of absence.

A student on a leave of absence is assured a place in the semester designated for return provided the instructions that are part of the leave of absence agreement are fulfilled and advanced deposits are submitted at the time designated by the Dean of Admissions.

4.14 HEALTH RECORD

An applicant who is offered admission must submit a medical history questionnaire prior to enrollment. The appropriate medical questionnaire is forwarded to the applicant upon receipt of advanced fees. Nursing students must submit a medical examination in lieu of the medical questionnaire.

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

4.15 ADVANCED PLACEMENT

A student may receive a maximum total of 64 semester hours of credit by examination or experiential learning. Credit may be awarded for successful completion of institutional examinations and/or approved external examinations. The college recognizes two external examination programs: the College Level Examination Program (CLEP) and the Advanced Placement Program of the College Entrance Examination Board.

The minimum score for awarding credit for general CLEP examinations is the 50th percentile of the Sophomore national norms. Credit is awarded for the subject CLEP examinations for achievement at or above the mean score achieved by students in the national norm sample who earned the grade of "C" in a regular college course in the subject. Minimum scores for awarding credit and the amount of credit granted can be secured by writing the Dean of Admissions.

A score of 5 or 4 on an Advanced Placement examination exempts a student from the introductory course in the tested area and gives credit. Credit and advanced placement are awarded in Calculus for a grade of 3. A score of 3 in all other areas exempts a student, without credit, from the introductory course. Advanced placement is not granted for grades of 2 or 1.

Advanced placement may be granted in English Composition after consideration of verbal SAT, the Test of Standard Written English results and high school achievement.

4.16 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 acceptance of correspondence courses.

4.17 INTERNATIONAL EDUCATION

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 Dean 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.

Students may participate in a variety of study abroad programs during their enrollment at Bloomsburg State College. Each summer the college offers courses for credit in foreign countries, such as France, England, Spain, Ireland, and the Soviet Union. As a member of the Pennsylvania Consortium for International Education, Bloomsburg also offers summer courses in Salzburg, Austria, and Mexico, in cooperation with the other 13 state colleges and university. Through the Pennsylvania Consortium for International Education, the college also makes arrangements for Junior Year Abroad programs or Semester Abroad programs. Information about these programs may be obtained in the Office of International Education.

Students in teacher education programs may be assigned to do their student teaching in one of the centers abroad with which Bloomsburg cooperates: Quito, Ecuador; Recife, Brazil; or Liverpool, England. Further information about this program may be obtained in the Office of International Education.





5. ACADEMIC POLICIES AND PRACTICES

Academic policies and practices are subject to change; the policies of this chapter are those authorized as of March 1, 1980. If there are subsequent changes which are effective for 1980-81, insofar as possible these will be announced in the Pilot; changes made after publication of the Pilot are announced in the Campus Voice.

5.01 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 registration to courses for which the prerequisites have been satisfied and to meet the requirements for graduation.

In case of changes by the College in graduation or curriculum requirements, a full-time student who attends without interruption may choose to satisfy either the requirements as they existed at the time of entrance or the new requirements; in the latter case, the student is responsible for knowing and understanding the new requirements. A student who withdraws from the College for one or more semesters must apply for readmission. A readmitted student is governed in this matter by the rules for readmission (see Section 4.11). A part-time student must apply to the Vice President for Academic Affairs for permission to be graduated under the original requirements.

Academic Advisement

Entering students who upon application for admission indicated their preferred curriculum are assigned to faculty advisers who specialize in advisement in these areas. Assignments to advisers are made by the Coordinator of Academic Advisement with advice of department chairpersons and deans.

Applicants for admission who are undecided about their curriculum should state *undecided* on the application for admission instead of specifying a curriculum.

Students with questions or problems should seek assistance in the Office of Academic Advisement, Benjamin Franklin Building.

Scheduling

Scheduling of classes for students already in attendance is completed during the prior semester. Students should obtain a free schedule booklet from the College Store and follow the instructions in it.

Students beginning or readmitted into degree programs may schedule classes in accordance with the instructions accompanying the offer of admission.

Registration

A student completes registration before attending classes. Registration is the student's official notification to the college of his/her enrollment for the term and is held the first day of the term. Students may register late until the close of business on the second Friday after a semester's registration or the first Wednesday following a summer session registration. There is a fee for late registration unless the student presents a legitimate medical excuse.

A time schedule for student registration is sent to each student with the semester billing. Times for summer sessions registration are announced in the summer sessions brochure.

Change of Schedule

A student may change his/her semester schedule prior to the close of the fifth day of classes of the semester. Application for change is made to the Registrar on a form which may be secured at the schedule change area. The consent of the adviser is not prerequisite to a change, but the student is responsible for informing the adviser of the change. Changes are subject to available space in classes to which the student proposes to transfer. Students may attend classes in accordance with an amended schedule only after certification by the Registrar's Office that the change has been executed officially.

Change of Area of Study

A student who wishes to change from one area of study to another must file a request in the Academic Advisement Office.

Permission to enter the new curriculum may require approval of the dean of the school or his designate in which it is offered; in this case, approval will depend on available space and may depend on recommendations from advisers.

Withdrawal from a Course

A student may change his/her semester schedule (drop or add courses) prior to the close of two weeks of classes into the semester. Thereafter, until one week after mid-semester, if a student withdraws from a course, the grade of "W" will be recorded. The signature (not necessarily the permission) of the instructor of the course is required.

No withdrawals will be permitted after the close of the work day one week after the middle day of the semester.

In exceptional circumstances, for compelling and justified reasons, the Dean of the School in which the course is being taught may waive these restrictions.

Withdrawal from the College

A student may withdraw from the College by securing an official withdrawal form from the counseling center and completing and filing it as directed. The withdrawal process includes the clearing of all financial obligations, an exit interview with the director of Financial Aid, and the return of the ID card and meal ticket. Grades are given in accordance with the policy stated under "Withdrawal from a Course." An individual who discontinues attendance without completing the official withdrawal process and clearing of all obligations to the college waives the right to a transcript and is denied future readmission.

Policies which cover reimbursements are stated in Section 2.8.

Pass-Fail Policy

After attaining sophomore standing, a degree student may elect courses on a pass-fail basis until the final day of registration in accordance with the following rules:

A maximum of two courses (not more than 7 semester hours in total) may be included as part of the minimum graduation requirement of 128 semester hours. No more than one pass-fail course may be taken in any one semester.

The courses must be electives in disciplines beyond the requirements of the student's specialization. Specialization includes a major and any courses required in conjunction with the major. Suitable courses outside the specialization taken on a pass-fail basis may be applied toward the General Education requirements. (See Section 6.4.)

The instructor is not informed that the course is being taken on a pass-fail basis. 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 of F recorded for E.

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

If, subsequent to completion of a course on a pass-fail basis, the student should change his/her major to one in which the instructor's original grade is required, he/she may request that the chairperson of the academic department be notified of the actual letter grade earned.

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

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

NOTE: The effective date of this policy is the beginning of the 1980-81 academic year for all entering and transfer students. Other students may choose to abide by these regulations or the pass-fail regulations that prevailed at the time of their entrance into the college (i.e., four instead of two pass-fail opportunities.)

Course Repeat Policy

A maximum of four courses (not more than 13 semester hours in total) in which grades of D or E have been recorded may be repeated. The initial grade remains on the transcript, and is part of the student's permanent record. Quality points are awarded for the grade of the repeated course only. The grade of the repeated course is part of the permanent record and is used to calculate the student's quality point average. Multiple repeats of the same course are considered as one repeat. A course taken at Bloomsburg State College in which a grade of D or E has been earned and repeated at another institution of higher education is included in the permitted maximum number of repeats.

Normal Load and Overload

The normal load of a student in any semester is sixteen semester hours. A student in Good Standing may register for a maximum of eighteen semester hours in a semester. An overload to a maximum of nineteen semester hours requires a Cumulative Quality Point Average of 3.0 and permission of the Dean of the School. (See Section 2.2 for overload fee.)

Credit by Examination

A student may petition for the privilege of establishing credit in a course or courses listed in the catalogue through a comprehensive examination instead of through registration and class attendance. The following regulations govern this provision:

The student must present evidence of adequate experience with the course content either through experience other than college attendance or through independent study of the course content.

The student may not petition for an examination in a course audited, nor in a course from which a failing grade has been recorded.

The student must present evidence of equivalent experience if the course involves laboratory or studio work.

The student's petition must be approved in sequence by the department chairman and the dean of the school.

An examination committee must be appointed by the department chairman and approved by the dean of the school. Unless the course is an advanced course which is taught by only one member of the faculty, the examination committee must include at least two faculty members.

The examination must cover the course syllabus in a comprehensive manner. Suitable standardized examinations may be used. The examination must be written or, if oral, subject to transcription. Where skill, as in typewriting or shorthand, is a course requirement, the written and oral aspects must be supplemented by demonstration of skill. All papers must be filed in the department office for three years following graduation.

If the student passes the examination, the grade of "P" is assigned for the course. If he/she fails, no record is made. This course does not count in the student's normal quota of pass-fail courses.

A flat fee of \$25 is charged for each course challenged by institutional examination taken for credit, regardless of the number of credits awarded for that course. Upon receipt of approval, this fee is payable at the College Business Office. Evidence of payment must be presented to the department before the examination can be administered.

Suitable adaptations of the above procedures may be used to validate transfer courses taken in non-accredited colleges. No fee is charged for examination to validate such credit. Examinations may be based upon the syllabi of the courses taken in the previous institution or, in case the student wishes to establish equivalency with courses in this college, upon the syllabi of courses offered in this institution.

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 and subject to overload fees as stated in Section 2.2, register for one course as an auditor. If the registrant attends at least three-fourths of the regular class meetings the grade of V will be reported by the instructor and the course will be entered on the 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. An auditor may not participate in laboratory or studio work if such work is part of the course audited.

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. Individuals who are not enrolled as students may apply for audit privileges through the Dean of Extended Programs; acceptance depends upon such factors as space in class and educational background.

Class Standing

A student has academic standing as a **freshman** until he/she 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** after 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**, 10 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 has registered for twelve or more semester hours is classified as a full-time student throughout the semester. One who registers for less than twelve semester hours is a part-time student. Where the word "student" appears in this catalogue without clarification either by word or context, "full-time student" is implied.

Progress Reports

At the mid-point of each semester a student may request from his/her instructor an estimate of the grade in the first half of the semester. This estimate is not made a part of the permanent record.

At the end of a semester or 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/her home address or another address designated by the student.

5.02 CLASS ATTENDANCE POLICY

Regular classroom attendance is expected of all students. However, a student will be afforded reasonable assistance by a faculty member when class work is missed for such reasons as the following:

1. Personal illness
2. Death or critical illness in the immediate family
3. Participation in a college-sponsored co-curricular activity (mutually satisfactory arrangements for assistance must be made by the student when the activity is announced).

The instructor is not required to give makeup examinations or review other class work missed as a result of unauthorized absences.

A faculty member, with departmental approval, may adopt a reasonable, alternative policy if class members are provided that policy in writing during the first week of classes.

5.03 GRADES, QUALITY POINTS AND QUALITY POINT AVERAGES

Definition of Grades

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

A—Excellent. This means both excellent when judged by the instructor's standards and of higher quality than the performance of students earning a B.

B—Superior. This means the work is of a quality sufficient to be recognized as better than average, though below excellence.

C—Satisfactory. The instructor considers the student's performance satisfactory and about average for the typical student.

D—Minimum Passing Grade. While the student has met the instructor's minimum standards and passes the course, his work was definitely below average.

E—Failure. The student has not met minimum standards for passing the course and receives no credit.

W—Withdrawn prior to the end of the week following the announced midpoint of the semester.

WP—Withdrawn, passing. Withdrawal occurred during the second half of the course, though the student had earned passing grades so far.

WF—Withdrawn, failing. Withdrawal occurred while student's standing was below the D-mark and after the date set for withdrawing with a simple W.

I—Incomplete. *This grade is given only when because of circumstances beyond his/her 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 by the instructor to replace the grade of "I".

Unless specifically stated in a written plan filed in the Registrar's Office it is assumed that the work will be completed prior to the end of the next semester. If the plan is not fulfilled, the grade of "I" remains a part of the student's record (it is not subject to change at a later time). In the case of graduate students the

grade of I is replaced by symbol N; this symbol remains permanently on the student's record.

A request for extension of time for the removal of a grade of "I" may be granted upon approval of the instructor and the dean of the school after suitable documentation has been presented indicating that circumstances above and beyond the control of the student persist or new circumstances of that nature have developed.

P—Passed. This grade is recorded when a student takes a course on a pass-fail basis and does work which would lead to a grade of "D" or higher. The grade of P is also recorded when a course is passed by proficiency examination.

F—This grade is recorded when a student takes a course on a pass-fail basis and does work which would 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 5.01.

R—Research in Progress. This grade is recorded when a research project is in progress but not yet completed and there is a definite plan for completion of the course work.

Quality Points

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

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

A "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 successfully repeated, the credits are counted only once in the computation. If a course is successfully repeated at another accredited institution of higher education, the credits for the failure at Bloomsburg State College are deleted from 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 chairperson and the dean of the appropriate school.

5.04 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 with Honors; 3.60 to 3.74, with High Honors; 3.75 to 4.00 with Highest Honors.

5.05 ACADEMIC GOOD STANDING

A student whose record at any final grading period shows a Cumulative Quality Point Average of 2.00 or better is considered in Academic Good Standing. (There are three final grading periods, the Fall Semester, the Spring Semester, and the total Summer Terms).

5.06 MINIMAL PROGRESS

A student not attaining a 2.00 Cumulative Quality Point Average shall be considered as making minimal progress toward academic good standing according to the following:

**TOTAL NUMBER OF SEMESTER
HOURS IN COURSES PASSED
INCLUDING GRADES OF "P"
AND TRANSFER CREDIT**

**CUMULATIVE QUALITY POINT
AVERAGE REQUIRED FOR
MINIMAL PROGRESS**

To and including 18 sem. hrs.

1.25-1.99 Minimal progress toward
academic good standing

19-30 sem. hrs.

1.50-1.99 Minimal progress toward
academic good standing

31-54 sem. hrs.

1.75-1.99 Minimal progress toward
academic good standing

5.07 RETENTION POLICIES

Academic Probation

A student in one of the following categories is permitted to attend on Academic Probation for one additional final grading period (semester or summer):

- (a) an entering freshman whose Quality Point Average at the end of his/her first final grading period is at least 1.00 but less than 1.25;
- (b) a transfer student whose Quality Point Average at his/her first final grading period is less than, but within 0.25 of, that required for minimal progress toward Good Standing;
- (c) a full-time student who has been making minimal progress toward Good Standing continuously for at least two consecutive final grading periods immediately prior to a grading period in which his/her Cumulative Quality Point Average drops below, but within 0.1 of, that required for minimal progress toward Good Standing;
- (d) a full-time freshman or transfer student who was making minimal progress toward Good Standing at the end of the first grading period following entrance but whose Quality Point Average at the end of the second grading period is below but within 0.1 of that required for minimal progress toward Good Standing.

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

Final Grading Period is defined in Section 5.05.

Academic Dismissal

A student who at any final grading period is neither in Good Standing nor qualified to attend for a semester on academic probation is excluded from registration and his/her 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 Section 4.11.

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/she is excluded from further registration and his/her record is again marked "Academic Dismissal"

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

The Academic Review Board comprises the Deans of the Schools of Arts and Sciences, Professional Studies, and Business; a representative of the Vice-President for Student Life; the Director of the Counseling Center; the Dean of Admissions and Records; the Dean of Extended Programs; and the Registrar of the College. At the initiative of either the applicant or the Academic Review Board, the student's adviser will be invited to participate as a voting member in the consideration of the case.

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/her 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/her 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/her curriculum and his/her 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 vice-presidents of the College, provided the dean of the school in which the student has been enrolled supports the appeal by certifying a judgment that 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/she 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.*

5.08 EVALUATION OF TRANSFER CREDITS

Evaluation of credit earned at other institutions is made by the Admissions Office with guidelines supplied by the department chairperson, cooperatively established by the appropriate school dean. Credits for acceptable courses transfer; grades, quality points, and grade point average do not transfer.

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 will 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 or standards 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 dean of the appropriate school.

(See Section 5.13 for limitations on credit transferred from other institutions.)

5.09 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 study the conventions governing use of sources. Such information can be obtained from instructors or from handbooks found in the library.

5.10 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.

A number of other tests are administered by the College; as a service to students who may need them for special purposes. Among the tests currently available are the National Teacher Examination, Graduate Management Admissions Test, 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 Center for Counseling and Human Development.

5.11 RESIDENCE REQUIREMENT

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

degree, must complete at least one half of the remaining 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.

5.12 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.

5.13 GRADUATION REQUIREMENTS

A candidate for graduation with a baccalaureate degree must have a 2.00 or higher cumulative quality point average, have satisfied the residence requirements and completed all course requirements of one of the curricula.

The minimum credit requirement for a baccalaureate degree is 128 semester hours.

The last 64 semester hours of credit counted toward graduation must be in courses taken in four-year degree-granting colleges. (For the minimum residence requirements in this College, see Section 5.10.)

Secondary majors in foreign languages must have satisfied the departmental examination requirement.

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

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

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

5.14 SECOND BACCALAUREATE DEGREE

An individual who applies for a second baccalaureate degree must have completed the first degree at Bloomsburg State College or another college or university and must have added thereto at least 30 semester hours in undergraduate courses taken in residence during regular academic years and/or summer terms at Bloomsburg State College. All requirements for the curriculum in which the second degree is earned must have been satisfied and free elective credit must have been taken if necessary to complete the additional thirty semester hours. If a given course is required in both degree programs, it must not be repeated for the second degree.

5.15 ASSOCIATE DEGREE

Except as provided otherwise in this section, all of the preceding academic policies and practices apply to the associate degree. With respect to Advanced Placement (Section 4.14), Pass-Fail (Section 5.01), Repeating Courses (Section 5.01), and Residence Requirement (Section 5.11), the policy is limited to fifty percent (50%) of the number of courses or credits indicated.

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.

With the exception of students interested in studying in the programs in the School of Business or in the Nursing program in the School of Professional Studies, all students are assigned to the School of Arts and Sciences upon admission to the college. Students may declare themselves "undecided", or may express an interest in studying in any of the arts and sciences, pre-professional, teacher education or professional studies majors. In the latter case, they are tentatively assigned to advisors in those areas. In either case, a student must have committed himself/herself and received admission to a curriculum by the end of the sophomore year. (Students who transfer to Bloomsburg State College with junior standing have a one semester grace period on this requirement.)

When a student makes a tentative choice of a major he/she is assigned preliminary or prerequisite courses required in that major. In curricula where admission is selective or restrictive at the junior year entry-level, as in the case in several programs in the School of Professional Studies, the college is not bound to admit the student if he/she is not admissible according to the competition for available spaces or other selective criteria.

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 periods are considered as equivalent to one period of lecture, discussion or recitation.

6.3 NON-CREDIT/DEVELOPMENTAL COURSES

Through services provided by the Center for Academic Development, a student, regardless of his/her current academic program or prior academic performance may enroll in developmental courses. These courses serve to supplement the student's academic experience and are not counted toward his/her credit requirement for graduation. Developmental courses provided include:

01.100 Developmental Communications Skills I (Writing) no credit

Course covers four types of basic prose writing: exposition, narration, description, and narration. Emphasis will be placed upon exposition, clarification, and explanation of facts and ideas.

01.101 Developmental Communication Skills II (Writing) no credit

A continuation and refining of the skills developed in the previous session.

01.102 Study Skills no credit

To teach proven methods and reinforce the use of those methods of study which can provide for mastery of subject matter. The program includes suggestions for using study

time wisely, taking, summarizing and organizing notes, writing term papers, and taking tests.

6.4 GENERAL EDUCATION REQUIREMENTS

The primary objective of General Education is to encourage in students, irrespective of their vocational pursuits, the development of those understandings, attitudes, values, and social skills that will enable them to enjoy a fuller life and to play a more constructive role in society.

The pattern of general education outlined above reflects a belief that a college must attempt to insure that the standards of an educated person in reading and writing have been attained, and should require the student to have experiences in the three recognized broad areas of knowledge: the humanities for their insights concerning 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 advisor, the opportunity to survey his/her previous background and choose new intellectual experiences that provide opportunity for optimum growth. This policy places important responsibility upon the student for discrimination in making decisions.

General Education courses should be those which contribute to the broadening and rounding of students' education in line with the stated philosophy of General Education.

Each college department will re-list General Education courses subject to appropriate review.

(General Education courses should not be those which were designed primarily for majors in a discipline and should not be courses in methods and materials.)

I. REQUIRED COURSES:

English Composition 101 and 200 or 201 3-6 S.H.
Honors Composition 104

(Upon admission to the college, qualified students, by virtue of their class rank and SAT verbal score are placed into this class)

Physical Education (Activity courses only with 4 S.H.
a minimal competency in swimming.)

II. SPECIAL ELECTIVES

This requirement is fulfilled by taking an indicated number of semester hours from each of the three groups, with at least two of the disciplines of each group represented. The student's major discipline may not be included in the general education requirement. Students with double majors must adhere to this policy for only one of the disciplines.

Group A	Group B	Group C
Humanities and the Arts	Social/Behavioral Sciences	Natural Sciences and Mathematics
Art	Economics	Biology
English	Geography	Chemistry
Foreign Languages	Political Science	Mathematics
History	Psychology	Physics
Music	Sociology	Earth Sciences
Philosophy	Anthropology	
Speech Communication and Theatre Arts		
15 S.H.	12 S.H.	12 S.H.

III. ADDITIONAL ELECTIVES

Nine-twelve (9 to 12) semester hours of general education electives may be selected from any of the disciplines listed under Special Electives and/or from business, education, and health and physical education (excluding activities courses).

Total Hours 58

Note — All general education courses **must** be chosen from the general education courses list provided by the Office of the Vice President for Academic Affairs. **Only** those courses listed can be used to complete the General Education Requirement. These General Education requirements do not apply in an associate degree program.





7. SCHOOL OF ARTS AND SCIENCES

7.1 GENERAL INFORMATION

The School of Arts and Sciences is composed of seventeen academic departments all of which, except Health and Physical Education, offer programs leading to either the Bachelor of Science or the Bachelor of Arts degree or both.

The college was first authorized to offer the Bachelor of Arts degree in 1960 and the Bachelor of Science in 1963. After a period of slow growth in the early 1960's, programs, departments, and enrollments in Arts and Sciences have increased steadily.

Growth of the School of Arts and Sciences has also made the college more attractive to highly qualified, promising faculty, many of whom have been appointed in the last decade.

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 may have 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 PROGRAMS FOR THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

These programs offer opportunities for the student to follow a less conventional curriculum according to his/her preference or the anticipated requirements of a professional or graduate school or a profession at which he/she is aiming. The student fulfills the 58 semester hours of General Education requirements and then chooses to complete the prescribed Core Courses in the Humanities, the Social Sciences, or the Natural Sciences and Mathematics. He/she completes a total of 48 semester hours in the area of his/her core curriculum, with free electives sufficient to bring him/her up to the 128 semester hour requirement for graduation.

For the *Broad Area Program in Humanities*, the requirements are:

English 363 Shakespeare.....	3 sem. hrs.
English 302 Advanced Composition	3 sem. hrs.
Speech 208 Intro. to Theater Arts.....	3 sem. hrs.
Speech 321 Argumentation.....	3 sem. hrs.
Philosophy 211 Intro. to Philosophy.....	3 sem. hrs.
Philosophy 302 Logic	3 sem. hrs.
Art History elective.....	3 sem. hrs.
Music History elective	3 sem. hrs.
History: any two 3-hour courses.....	6 sem. hrs.
Foreign Language Option:.....	3 sem. hrs.
Choose between	
1 semester of Intermediate Foreign Language	
1 semester of foreign literature course	
(in original or translation)	

1 semester of foreign culture & civilization

Total Core	33 sem. hrs.
Humanities electives.....	15 sem. hrs.
Total Broad Area Humanities requirements.....	48 sem. hrs.

For the *Broad Area Program in the Social Sciences*, the requirements are:

Economics 211-212 Principles of Economics I-II.....	6 sem. hrs.
Geography: any two 3-hour courses	6 sem. hrs.
Political Science 101 Elements of Political Science and one Political Science elective.....	6 sem. hrs.
Sociology 211 Principles of Sociology and one Sociology elective	6 sem. hrs.
Anthropology 100 General Anthropology, or Anthropology 200, Principles of Cultural Anthropology.....	3 sem. hrs.
Psychology 101 General Psychology and one Psychology elective.....	6 sem. hrs.
Total Core	33 sem. hrs.
Social Science electives	15 sem. hrs.
Total Broad Area Social Science requirements.....	48 sem. hrs.

For the *Broad Area Program in Natural Sciences/Mathematics*, the requirements are:

*Mathematics 125-126 (Analysis I-II)	6 sem. hrs.
Mathematics 171 Intro. to Computer Programming, or 172 Intro. to Basic Computer Programming.....	1 sem. hr.
**Physics 111-112 Introduction to Physics I-II, or 211-212 General Physics I-II	8 sem. hrs.
Biology 210 General Zoology	4 sem. hrs.
Biology 220 General Botany	4 sem. hrs.
***Chemistry 102 College Chemistry.....	4 sem. hrs.
Chemistry 113 Chemistry Laboratory	2 sem. hrs.
Earth Science 101 Physical Geology.....	4 sem. hrs.
Earth Science 102 Historical Geology	4 sem. hrs.
Total Core.....	37 sem. hrs.
Approved electives to complete Broad Area requirements:****	11 sem. hrs.
Total Broad Area Natural Science/Mathematics requirements:	48 sem. hrs.

*Subject to the discretion of the Mathematics Department and the Advisor, the student will take Math. 113 Pre-Calculus before Math. 125.

**Subject to the discretion of the student and the Advisor, considering that Physics 211 requires a knowledge of Calculus but is a requirement for certain advanced courses in Physics and Chemistry.

***The Chemistry Department and the Advisor will decide whether the student shall begin his Chemistry studies with Chem. 101 or 102.

****Electives within the Broad Area requirements are to be chosen from a list compiled by the Mathematics and Natural Science Departments and in possession of the Advisor for the students in this program.

7.3 PROGRAMS WITH MAJOR SPECIALIZATION IN THE SCHOOL OF ARTS & SCIENCES (DEGREES B.A. and B.S.)

Requirements for the arts and sciences degrees are as follows:

The General Education requirements as given in Section 6.4 must be satisfied; the major requirements as stated at the beginning of the course descriptions for the discipline must be fulfilled; elective credit in disciplines of the humanities, social sciences and natural sciences and mathematics must be added to give minimum total credit of 128 semester hours.

Program	Degree	Department
*American Studies	B.A.	Interdisciplinary Studies
Art Studio	B.A.	Department of Art
Art History	B.A.	Department of Art
Biology	B.A., B.S.	Department of Biological and Allied Health Sciences
Chemistry	B.A., B.S.	Department of Chemistry
*Computer and Information Science	B.S.	Interdisciplinary Studies
Earth Sciences	B.S.	Department of Geography and Earth Sciences
Economics	B.A.	Department of Economics
Economics, Political	B.A.	Department of Economics
**Engineering and Liberal Arts	B.A., B.S.	Cooperative Program
English	B.A.	Department of English
French	B.A.	Department of Foreign Languages
Geography	B.A.	Department of Geography and Earth Sciences
Geology	B.S.	Department of Geography and Earth Sciences
German	B.A.	Department of Foreign Languages
History	B.A.	Department of History
Mass Communication	B.A.	Department of Speech, Mass Communications & Theater
Mathematics	B.A., B.S.	Department of Mathematics
Music	B.A.	Department of Music
Philosophy	B.A.	Department of Philosophy
Physics	B.A., B.S.	Department of Physics
Political Science	B.A.	Department of Political Science
Psychology	B.A.	Department of Psychology
Sociology	B.A.	Department of Sociology
Sociology Anthropology	B.A.	Department of Anthropology
Spanish	B.A.	Department of Foreign Languages
Speech Communications (Debate and Forensic Science)	B.A.	Department of Speech, Mass Communications and Theater
Theatre Arts	B.A.	Department of Speech, Mass Communications and Theater

*Interdisciplinary

**Cooperative Program

7.4 PRE-PROFESSIONAL STUDY AND ADVISEMENT

A Committee on Pre-Professional Health Science offers special, supplementary advisement to students who hope to seek admission to professional schools of medicine, dentistry, veterinary medicine, optometry, and pharmacy.

Members of this committee are assigned to help pre-professional students to familiarize themselves with admission requirements of the professional schools, and to select college courses in harmony with these requirements. They also assist students in preparing applications for admission to professional schools.

Students who wish to undertake pre-professional study should indicate this interest on their application for admission to the College in order that an appropriate adviser may be assigned at the outset of their studies.

Pre-medicine, Pre-dentistry, Pre-veterinary Medicine, Pre-optometry, Pre-pharmacy

As a rule, professional schools in these areas do not specify an undergraduate major, but they do specify minimum essential courses, especially in the sciences and mathematics. These minimum requirements usually include courses in general chemistry, organic chemistry, mathematics, biology and physics. High standards of undergraduate scholarship are demanded for consideration.

Pre-Law

Students who wish to prepare to study law should familiarize themselves with the entrance requirements of law schools they are considering. A Pre-Law Advisory Committee drawn from several Departments makes a continuing study of such schools; its members will advise students in the choice of courses. Most law schools will consider applications from students with widely varying majors, placing emphasis on a thoroughly cultivated mind rather than any specific body of knowledge.

7.5 INDEPENDENT STUDY

The independent study opportunity within each department provides an opportunity for the student to pursue in-depth individualized instruction in a topic of special value or interest to the student. A limited number of independent study offerings are available each semester. Students interested in applying for independent study should develop a written proposal with his/her faculty sponsor. The number of semester hours credit should be specified in the proposal. Independent study proposals along with the name of the faculty sponsor should be submitted to departments for recommendation, then to the Dean of Arts and Sciences for final approval.

AMERICAN STUDIES

FACULTY: (See Interdisciplinary Studies)

PROGRAM:

The American Studies baccalaureate program provides the student with a variety of choices replacing the single-discipline major. There are two categories, the institutional and the cultural, either of which may lead to the B.A. degree or may be used as an area of specialization in Secondary Education.

The institutional option emphasizes the Social Sciences, English and Mass Communications, and History, as well as some Business and Educational Philosophy courses; the cultural option, besides literature and the fine arts, also features the Social Sciences, History, and some Education courses. In either option, including the use of American

Studies as an area of specialization in Education, the student is required to take three seminars in American Studies.

The Seminars 09.311 and 09.312 are open as electives to students from any other fields. Sophomore standing is the only prerequisite. The follow-up, numbered 421, requires completion of 09.312. Seminars in this field will vary widely in subject matter, which will depend on agreement of professor and student in each case.

AMERICAN STUDIES:

Arts and Sciences major for the B.A. degree

- | | |
|--|------------------|
| 1. Fifteen semester hours in area of emphasis (electives within cultural or institutional area); | 15 hrs. |
| 2. One seminar or course on research methods in English, Art, History, Sociology, or Political Science | 3 hrs. |
| 3. American Studies Seminar 09.311, 09.312, and 09.421 | 9-12 hrs. |
| | Total 27-30 hrs. |

ART

FACULTY:

Professor Percival R. Roberts, III (Chairperson); Associate Professors Robert B. Koslosky, Kenneth T. Wilson, Stewart L. Nagel, Barbara J. Strohmman; Assistant Professors Karl A. Beamer, John F. Cook, Jr., Gary F. Clark, Charles T. Walters.

Arts and Sciences Major for B.A. degree:

Art History: A minimum of 30 credits is required. A minimum of 24 must be in the area of Art History (31. courses) with an option for 6 credits in Art Studio courses or 32.490, 32.495, 32.480.

Art Studio: 32.250 and 310; 30.101 or any art history; 32.330 or 340; 12 semester hours in one of the following: Ceramics, Drawing, Fabric Design, Graphics, Painting, Sculpture, Weaving.

COURSE DESCRIPTIONS

GENERAL—ART EDUCATION

(Code 30)

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.

30.303 CRAFTS IN SPECIAL EDUCATION

A workshop course designed to involve students in a variety of crafts experiences for many different types of special learners.

30.305 CHILDREN'S ART † 3 sem. hrs.

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

30.306 VISUAL ARTS FOR THE EXCEPTIONAL CHILD † 3 sem. hrs.

The importance of art activity, theory and practice, as a means of enriching and stimulating the special child's awareness of himself and his work is stressed. Emphasis placed on those positive aspects for creative activity which the handicapped child possesses. *Recommended for Special Ed. and Psychology majors with Junior class standing.*

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 and the content and biology of artistic form.

30.450 ART EDUCATION IN THE ELEMENTARY SCHOOL 3 sem. hrs.
 Theories and techniques basic to the use of art in the elementary school.

ART HISTORY
 (Code 31)

31.315 AMERICAN ART HISTORY † 3 sem. hrs.
 A study of the history of the visual arts in America.

31.325 HISTORY OF ARCHITECTURE † 3 sem. hrs.
 A 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 early 20th century architectural design.

31.335 EUROPEAN ART HISTORY I † 3 sem. hrs.
 A study of the history of the visual arts on the European continent from the prehistoric up to and including the Late Gothic.

31.336 LATE EUROPEAN ART HISTORY II † 3 sem. hrs.
 A study of the history of the visual arts beginning with the Renaissance up to and including French painting of the 19th century.

31.345 ORIENTAL ART HISTORY I † 3 sem. hrs.
 A study of the history of the visual arts of the Islamic World.

31.346 ORIENTAL ART HISTORY II † 3 sem. hrs.
 A study of the history of the visual arts in South India, Indonesia, China and Japan.

31.355 HISTORY OF MODERN ART † 3 sem. hrs.
 Contemporary movements in art from the nineteenth century to the present.

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. [see section 7.5]

31.415 PRIMITIVE ARTS † 3 sem. hrs.
 This course is also listed as Anthropology 46.410. Offered in cooperation with the Department of Anthropology. A survey of graphic arts, literature, music and the dance of ancient and non-European cultures, with slides, films, specimens, and recordings.

31.495 VISUAL AESTHETICS † 3 sem. hrs.
 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 principles of design and organization of the visual elements, involving both two and three dimensional problems.

- 32.275 CRAFTS I †** 3 sem. hrs.
Introduction to a varied array of crafts; methods, tools, materials, techniques and concepts.
- 32.276 CRAFTS II** 3 sem. hrs.
Continued exploration of selected in-depth crafts' processes and concepts on a more individualized basis.
- 32.300 CERAMICS I †** 3 sem. hrs.
An introduction to the processes of making and firing ceramic objects.
- 32.301 CERAMICS II** 3 sem. hrs.
At this level the student is afforded the opportunity to become more involved by selecting his/her own methods of working.
Prerequisite: Art 32.300.
- 32.302 CERAMICS III** 3 sem. hrs.
The student seeks specialization through the pursuit of making an art object.
Prerequisite: Art 32.301.
- 32.303 CERAMICS IV** 3 sem. hrs.
The student will be responsible for making, firing, and showing his/her own wares.
Prerequisite: Art 32.302.
- 32.310 DRAWING †** 3 sem. hrs.
An introduction and application of the basic attitudes with which a person draws. Emphasis on visual awareness.
- 32.311 DRAWING II** 3 sem. hrs.
Composition and form in drawing.
Prerequisite: Art 32.310.
- 32.312 DRAWING III** 3 sem. hrs.
Stresses sending form into space.
Prerequisite: Art 32.311.
- 32.313 DRAWING IV** 3 sem. hrs.
Stresses individuality and deep involvement of personal expression.
Prerequisite: Art 32.312.
- 32.320 FABRIC DESIGN I †** 3 sem. hrs.
An introduction to a variety of methods, approaches, tools, materials and visual concepts in designing with fibers. Areas include fabric decoration, hand made loom and off-the-loom fiber constructions, sculptural forms in fibers or rope, fiber techniques with metals, fabric collage, drawing and painting with fibers, wall hangings, rugmaking, sewn stitched and stuffed forms, netting, applique, leno, stitchery and many other areas. Open to all students. No prerequisites.
- 32.321 FABRIC DESIGN II** 3 sem. hrs.
A continuation of Fabric Design I with limited areas of concentration selected by each student. Professional methods, approaches and attitudes discussed.
Prerequisite: Fabric Design I or permission of the instructor.
- 32.322 FABRIC DESIGN III** 3 sem. hrs.
A continuation of Fabric Design II with concentration in one area selected by the student. Focus is on refining one's craft, visual perception and professional attitude.
Prerequisite: Fabric Design II or permission of the instructor.

- 32.323 FABRIC DESIGN IV** 3 sem. hrs.
 A continuation of Fabric Design III with each student functioning in one area in a highly independent and professional manner. Self criticism, self identity in the fabric design field, career opportunities, graduate school opportunities and professional practice in fabric design discussed.
Prerequisite: Fabric Design II or permission of the instructor.
- 32.330 PAINTING I †** 3 sem. hrs.
 Exploration and sensitivity to environment through paint.
- 32.331 PAINTING II** 3 sem. hrs.
 Attention to technical skill inherent in the image formation. Study of the landscape as a concept in painting.
Prerequisite: 32.330.
- 32.332 PAINTING III** 3 sem. hrs.
 Development into maturity of style and statement. Study of the figure as a concept in painting.
Prerequisite: 32.331.
- 32.333 PAINTING IV** 3 sem. hrs.
 Advanced work planned for individual needs. Paintings are structured from experiences based upon previous development.
Prerequisite: 32.332.
- 32.340 SCULPTURE I †** 3 sem. hrs.
 A studio course in three-dimensional expression, with its primary goal to expose the student to basic sculptural materials.
- 32.341 SCULPTURE II** 3 sem. hrs.
 Continued development in the use of materials and processes directing itself towards unique individual expression.
Prerequisite: 32.340.
- 32.342 SCULPTURE III** 3 sem. hrs.
 Sculpture focuses on the expansion of expression and its relationships to sculptural processes.
Prerequisite: 32.341.
- 32.343 SCULPTURE IV** 3 sem. hrs.
 Advanced work planned for individuals needs toward a maturing style in sculpture.
Prerequisite: 32.342.
- 32.350 WEAVING I †** 3 sem. hrs.
 An introduction to weaving. History of weaving, tools, fibers, weaves and looms (parts and function).
Prerequisite: 32.250 or permission of instructor.
- 32.351 WEAVING II** 3 sem. hrs.
 Weaving techniques — experiencing the loom controlled weaves.
Prerequisite: 32.350.
- 32.352 WEAVING III** 3 sem. hrs.
 Continued experience in weaving techniques with emphasis on in-depth production. 2D or 3D.
Prerequisite: 32.351.

- 32.353 WEAVING IV** 3 sem. hrs.
 Developing an individualistic approach to weaving by exploring and experimenting. Integrating and combing woven materials as well as non-woven materials in order to achieve a unified statement.
Prerequisite: 32.352.
- 32.360 GRAPHICS I †** 3 sem. hrs.
 Exploration of the techniques of Relief; woodcut, linocut, and collagraph; intaglio: etching, aquatint and drypoint; Serigraphy: glue and film methods.
- 32.361 GRAPHICS II** 3 sem. hrs.
 Color and color registration methods. Concentration in serigraphy.
Prerequisite: 32.360.
- 32.362 GRAPHICS III** 3 sem. hrs.
 Introduction to mixed media techniques. Introduction to lithographic and photographic printmaking.
Prerequisite: 32.361.
- 32.363 GRAPHICS IV** 3 sem. hrs.
 Individual exploration of traditional and experimental printmaking methods. Emphasis on personal expression.
Prerequisite: 32.362.
- 32.380 JEWELRY MAKING* †** 3 sem. hrs.
 A study of jewelry forms past and present from the standpoint of both utility and design. Problems in wood and metals, ceramics, glass, and plastics, exploring contemporary jewelry forms and processes.
- 32.395 INDEPENDENT STUDY IN ART MEDIA** 1-6 sem. hrs.
 Individualized production in the plastic arts not covered by other studio course offerings, and in-depth explorations, innovative uses and applications of selected art media. Course may be repeated more than once with the instructor's consent. [see section 7.5]
- 32.396 INDEPENDENT STUDY IN ART MEDIA II** 1-6 sem. hrs.
 Individualized production in the plastic arts not covered by the other studio course offerings and in-depth explorations, innovative uses and applications of selected art media. Course may be repeated more than once with the instructor's consent. [see section 7.5]
- 32.475 INDEPENDENT STUDY IN STUDIO ARTS I** 1-3 sem. hrs.
 [see section 7.5]
- 32.476 INDEPENDENT STUDY IN STUDIO ARTS II** 1-3 sem. hrs.
 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: satisfactory completion of four levels of a studio area or its equivalent.
 [see section 7.5]
- 32.480 INTERNSHIP IN ART** 3-6 sem. hrs.
 Provides upper level art majors with an opportunity to acquire meaningful experiences in practical work situations utilizing the services of artists and/or designers, museum curators, merchandizing operations, etc. outside of the regular courses prescribed by the college art curriculum. Course may be repeated with consent of advisor and department chairperson.

32.490 ART GALLERY* †**3 sem. hrs.**

Involvement with the collection, preservation, and exhibition of art work. This experience will conclude with planning and hanging an exhibition in Haas Gallery of Art. Visits to museums and art galleries will familiarize the student with the varied nature and philosophy of exhibition today.

32.495 ART AND CULTURE OF FRANCE**3 sem. hrs.**

A study-tour of France with specific attention to French Art seen in relation to its social and cultural environment. Visits will be made to places of artistic and cultural interest in and around Paris, in the Loire Valley and in Southwestern France.

*Courses offered every other year or as sufficient student enrollments are obtained.

BIOLOGICAL AND ALLIED HEALTH SCIENCES**

FACULTY:

Professors James E. Cole (Chairperson) Phillip A. Farber, Michael Herbert, Craig L. Himes, Julius R. Kroschewsky, Thomas R. Manley, Louis V. Mingrone, Donald D. Rabb, Joseph P. Vaughan; Associate Professors George J. Gellos, Stanley A. Rhodes and Robert G. Sagar, Judith Downing, Frederick C. Hill; Assistant Professors John R. Fletcher and Mark S. Melnychuk.

BIOLOGY:**Arts and Sciences major for the B.S. degree:**

Biology 50.210, 220, 332, 351, 380; 50.331 or 361 or 364; 50.371 or 372; Chemistry 52.101 and/or 102; 113, 231, 232 and two additional Chemistry courses (7 or 8 sem. hrs.) to be selected from 52.122, 233, 311, 312; Physics 54.111, 112 or 54.211, 212; Mathematics (6 or more cr. hrs.) 53.141, 123 or 53.125, 141 or 53.125, 126; Foreign Language: At least one semester of any Foreign Language at the 102 level or above.

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

Biology 50.210, 220, 332, 351, 380; 50.371 or 372; Chemistry 52.101 and/or 102; 52.113, 211, 233 or 52.231, 232; Mathematics 4 sem. hrs. to be selected from 53.123, 141, 171, 172; Foreign Language: At least one semester of any Foreign Language at the 102 level or above.

**Descriptions of allied health curricula (medical technology, dental hygiene, pre-occupational therapy, pre-physical therapy pre-cytotechnology radiologic technology and health services associate) are listed under the School of Professional Studies.

COURSE DESCRIPTIONS (Code 50)

Courses marked † may be applied toward General Education.

50.101 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.

- 50.102 GENERAL BIOLOGY II †** 3 sem. hrs.
Biology studied from the ecological, evolutionary, neural and behavioral perspective with emphasis on man. Not for Biology majors.
Prerequisite: 50.101 or consent of instructor.
- 50.103 QUEST BIOLOGY** 3 sem. hrs.
The study of the biological and environmental relationships with man as a participant for survival in a natural setting, i.e. to become a part of that setting.
- 50.107 MEDICAL TERMINOLOGY †** 1 sem. hr.
Programmed instruction. Roots, prefixes and suffixes of medical terms are studied, enabling the student to comprehend medical and biological terminology. Required of all health science biology majors and students in medical technology and cytotechnology. Recommended for other biology majors and other students in the health sciences. Should be taken during the freshman year.
- 50.111 GENERAL BIOLOGY I: LABORATORY †** 1 sem. hr.
An optional laboratory program correlated with General Biology I (50.101) lecture topics. 2 hrs. laboratory/wk.
Prerequisites: May be taken with or following 50.101.
- 50.173 ANATOMY AND PHYSIOLOGY I †** sem. hrs.
An introductory course closely integrating the structure and function of the human body. Laboratories will correlate closely with the lecture topics. This portion covers: The Cell, Cellular Metabolism, Tissues, Integumentary System, Body Organization, Skeletal System, Muscular System, Nervous System & Somatic and Special Senses. 2 hours lecture, 3 hours laboratory each week.
(Not applicable toward a major in biology.)
- 50.174 ANATOMY AND PHYSIOLOGY II †** 3 sem. hrs.
An introductory course closely integrating the structure and function of the human body. Laboratories will correlate closely with the lecture topics. This portion covers: Endocrine System, Digestive System, Nutrition and Metabolism, The Respiratory System, Blood, Cardiovascular System, Lymphatic System, Urinary System, Water and Electrolyte Balance, Reproductive System, Human Growth & Development and Human Genetics. 2 hrs. lecture, 3 hrs. laboratory per week.
(Not applicable toward a major in biology.)
Prerequisite: 50.173.
- 50.210 GENERAL ZOOLOGY †** 4 sem. hrs.
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.
Fundamental principles of taxonomy, anatomy, morphology, physiology and genetics as applied to the plant kingdom. 3 hrs. lecture, 3 hrs. laboratory/week.
- 50.230 HUMAN SEXUALITY †** 3 sem. hrs.
Anthropological, biological, physiological and sociological aspects of sex. Discussion of sexual competence and the role of sex in society.
(Not applicable toward a major in biology.)
- 50.254 SOCIAL IMPLICATIONS OF BIOLOGY** 3 sem. hrs.
Biology as related to contemporary problems; population, food, environments, etc. The course is directed toward concern with the state of biology in modern times. 3 hrs. lecture/discussion/week.
Not applicable toward a major in biology.

- 50.281-289 SPECIAL TOPICS, BIOLOGY/ALLIED HEALTH †** 1-3 sem. hrs.
 Presentation of an area of biology or allied health of interest to a general audience. Not applicable toward a biology major.
Prerequisites: If any, to be determined by the instructor.
- 50.311 INVERTEBRATE ZOOLOGY** 3 sem. hrs.
 The principal phyla of invertebrate animals are studied in relation to their anatomy, classification, and their roles in the ecosystems in which they participate. 3 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.210.
- 50.312 VERTEBRATE ZOOLOGY** 3 sem. hrs.
 The biology of the vertebrate animal, emphasizing morphology, physiology, embryology and behavior. Evolutionary and ecological aspects of each class. Laboratory work with living and preserved specimens to familiarize the student with representative individuals of the major classes of this group. 3 hrs. lecture, 2 hrs. laboratory/week.
Prerequisite: 50.210.
- 50.321 COMPARATIVE BIOLOGY OF NON-VASCULAR PLANTS** 3 sem. hrs.
 Phylogenetic study of major non-vascular plants with emphasis on development, structure, reproduction and selected ecological aspects. 2 hr. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220.
- 50.322 COMPARATIVE BIOLOGY OF VASCULAR PLANTS** 3 sem. hrs.
 Phylogenetic study of major vascular plants with emphasis on their development, structure, reproduction and selected paleobotanical aspects. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.220.
- 50.331 EMBRYOLOGY** 3 sem. hrs.
 Patterns, processes and principles of animal development. Laboratory studies comprise maturation and organization of germ cells, and developmental processes of a number of animal types, including several types of living embryos. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.101 or 210 or consent of the instructor.
- 50.332 GENETICS** 3 sem. hrs.
 Mechanisms of heredity in animals and plants; Mendelian inheritance probability, linkage, crossing over, chromosomal modifications, nucleic acids and gene action. 3 hrs. lecture, 2 hrs. laboratory/week. Laboratory hours may vary.
Prerequisite: 50.210.
- 50.333 HUMAN GENETICS †** 3 sem. hrs.
 Principles of human genetics and their application to problems in biology, medicine, psychology, special education, anthropology, and sociology. Open to majors and non-majors. 3 hrs. lecture/week.
Prerequisite: 50.101 or 210.
- 50.341 MICROBIOLOGY** 3 sem. hrs.
 Cytology, nutrition, cultivation, and metabolism of bacteria, viruses and fungi; their distribution in nature and their beneficial and harmful activities. 1 hr. lecture, 4 hrs. laboratory/week.
Prerequisite: 6 hours of laboratory science.
- 50.342 MEDICAL MICROBIOLOGY** 3 sem. hrs.
 An introduction to the organisms that produce disease in man. The material em-

phasizes basic microbiology, clinical bacteriology, virology and immunology as applied to disease processes, diagnosis and prevention. 3 hrs. lecture, 2 hrs. laboratory/week.

50.343 IMMUNOLOGY 3 sem. hrs.

A lecture course: responses to infectious agents, immunochemistry, immunobiology, clinical laboratory applications, tissue transplantation and blood transfusion. 3 hrs. lecture/discussion/week.

Prerequisite: Recommend 50.342.

50.351 GENERAL ECOLOGY 3 sem. hrs.

Principles and concepts pertaining to energy flow; limiting factors, habitat studies, succession patterns, and population studies at the species, interspecies and community level. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210 and 220 or consent of instructor.

50.352 FIELD ZOOLOGY † 3 sem. hrs.

Common vertebrates (excluding birds) of North America, with emphasis on the observation collection, and recognition of local fauna. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210 or consent of instructor.

50.353 FRESHWATER BIOLOGY † 3 sem. hrs.

The biology of streams, lakes and ponds; their relationship to health and welfare. 2 hrs. lecture, 3 hrs. laboratory/week.

50.361 COMPARATIVE VERTEBRATE ANATOMY 3 sem. hrs.

A comparative study of the chordates, emphasizing the vertebrate classes, particularly structure, morphogenesis, functional adaptations and evolution trends. In the laboratory, emphasis is placed on the lamprey, shark, cat, sheep heart and brain, and living frog larvae, rats and rabbits. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.101 or 210 or consent of instructor.

50.363 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 102 or consent of the instructor.

50.364 VERTEBRATE HISTOLOGY 3 sem. hrs.

A study of vertebrate tissues from various body systems. Laboratory studies include the use of prepared slides, color photomicrographs and basic histological techniques. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.210. Recommended prerequisite: 50.361.

50.365 HISTOLOGICAL AND HISTOCHEMICAL TECHNIQUES 3 sem. hrs.

A laboratory course designed to provide theory and practice in the use of histological and histochemical techniques. Fixation, preparation embedding, sectioning and staining of various animal tissues. 1 hr. lecture/4 hrs. laboratory/week.

Prerequisite: 50.364 and Chemistry 52.211 or 231 or consent of instructor.

50.366 ANATOMY AND PHYSIOLOGY: HEAD, NECK AND THORAX 3 sem. hrs.

Anatomy, physiology, and development of the head, neck and thorax. Special emphasis is given to the organ systems that relate to the hearing and speech mechanisms. 3 hr. lecture/2 hrs. laboratory/week. (Communications Disorders students only).

Not applicable toward a major in biology.

- 50.371 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 endorhines. 2 hrs. lecture, 3 hrs. laboratory/week.
Prerequisite: 50.210 or consent of instructor.
- 50.372 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; Chemistry 52.211 or 231; or consent of instructor.
- 50.380 BIOLOGY SEMINAR** 1 sem. hr.
An informal discussion course for consideration of important topics in modern biology. One hour per week.
- 50.390 INDEPENDENT STUDY IN BIOLOGY I** 1-3 sem. hrs.
To acquaint students with the techniques of scientific research, data collection and analysis by engaging in a program of scientific research with the aid of a faculty member.
Prerequisite: 12 hours in the biological sciences or consent of instructor. [see section 7.5]
- 50.391 INDEPENDENT STUDY IN BIOLOGY II** 1-3 sem. hrs.
To acquaint students with the techniques of scientific research, data collection and analysis by engaging in a program of scientific research with the aid of a faculty member.
[see section 7.5]
- 50.411 RADIATION BIOLOGY** 4 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: Chem. 52.232 or 233; Math 53.141; or consent of instructor.
- 50.431 EVOLUTION** 3 sem. hrs.
A study of the major problems of the theory of evolution and contributions toward their solutions made by genetics, paleontology, systematics and ecology. 3 hrs. lecture/week.
Prerequisite: 50.332.
- 50.441 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 or 333; Chem. 52.211 or 231 or consent of instructor.
- 50.454 ETHOLOGY** 3 sem. hrs.
Description and classification of behavior (animal), its evolution and biological function. Mechanisms underlying behavior, especially species-typical behavior, are emphasized. 3 hrs. lecture, 2 hrs. laboratory per 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. 1 hr. lecture, 4 hrs. laboratory/week.
Prerequisite: 50.341 or consent of instructor.
- 50.457 ENTOMOLOGY** 3 sem. hrs.
Study of the anatomical features of insects which enable the student to properly

classify insects as to order, family, genera, and species. A technique course providing the student opportunity to collect, mount, and properly display insects for study. 3 month collecting period, May to August, and 3-week lab. for study of gross morphology and identification. 2 hrs. lecture, 3 hrs. laboratory per week. Equivalent to a minimum of five hours/week including laboratory.

50.459 ORNITHOLOGY

3 sem. hrs.

Biology of birds and the study of bird identification in the field by song and sight. Study of birds of this region in relation to migration, time of arrival and nesting. 2 hrs. lecture, 3 hrs. laboratory/week. May be offered between close of Spring semester and beginning Summer Sessions. Some study off-campus may be required.

50.462 PLANT ANATOMY

3 sem. hrs.

Recent concepts of plant anatomy and historical consideration of classical researchers. Structure, function, growth and morphogenesis of the vascular plants. Composition and growth of meristems and the phenomena of subsequent tissue differentiation to increase appreciation of development events. The study of anatomical organization is described by developmental and comparative methods in order to explain important cell, tissue and organ relationships. 2 hrs. lecture, 3 hrs. laboratory/week.

Prerequisite: 50.220.

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, film-strips, autoradiography, nature work in close-ups, photomicrography, thesis illustrations and other special techniques. 2 hrs. lecture, 3 hrs. laboratory/week. Additional laboratory hours may be required.

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. 3 hrs. lecture/discussion/week.

Prerequisite: 12 hours of Biology and Chemistry 52.211 or 52.231; or consent of instructor.

**50.481-489 ADVANCED SPECIAL TOPICS,
BIOLOGY/ALLIED HEALTH**

3 sem. hrs.

3 sem. hrs.

Presentation of an area of biology or allied health which requires the student have some background in biology. Three hours of credit may be applied to the biology major.

Prerequisites: Determined by the instructor.



CHEMISTRY

FACULTY

Professors Roy D. Pointer (Chairperson), Barrett W. Benson, Norman E. White; Associate Professors Wayne P. Anderson, Lawrence L. Mack, Rex E. Selk; Assistant Professors Andrew L. Colb, Daniel C. Pantaleo.

CHEMISTRY:

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

Chemistry 52.102, 113, 122, 231, 232, 311, 312, 322; 421 or 441; 422, 490, 492; Mathematics 53.125, 126; 171 or 172; 225; Physics 54.211, 212, 310; reading knowledge of Scientific German or Russian.*

(Note: Students who want ACS certification upon graduation must complete the requirements for the B.S. degree as given above.)

CHEMISTRY:

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

Chemistry 52.102, 113, 122, 231, 232, 311, 312, 322, 490; Mathematics 53.125, 126, 171 or 172, 225; 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.)

The Department of Chemistry is recognized by the American Chemical Society as meeting the standards for undergraduate education in Chemistry set by the committee on Professional Training of the Society. This recognition is of significance to students who upon graduation seek to enter graduate school, medical school, or an industrial position in chemistry. Students who meet all requirements of the major in chemistry for the B.S. degree are certified by the Department to the national office of the ACS upon graduation; they thereupon become eligible for membership in the Society without the usual two-year waiting period.

Students who are interested in pursuing careers in business or industry after a chemistry baccalaureate are invited to discuss proper course selection with members of the chemistry faculty. By completing the course and admission prerequisites for MBA study concurrently with a chemistry BA program, all course requirements for an MBA degree can be met in only one additional year of postgraduate study.

COURSE DESCRIPTIONS

(Code 52)

Courses marked † may be applied toward General Education.

52.101 INTRODUCTORY CHEMISTRY † 3 sem. hrs.

An introduction to chemistry for students with little or no previous chemical background. The course surveys the principles of chemistry with emphasis on the fundamentals of chemical and physical measurements and calculations. 3 hrs. class/week.

52.102 COLLEGE CHEMISTRY † 4 sem. hrs.

Basic principles of chemistry including descriptive and theoretical topics of general chemistry as recommended by the American Chemical Society for students with a strong high school science background and an above average math SAT score. 4 hours class/week.

Prerequisite: 52.101 or recommended placement by the Chemistry Department.

- 52.108 PHYSIOLOGICAL CHEMISTRY †** 4 sem. hrs.
A survey of the essentials of organic and biochemistry. 4 hours class/week.
Prerequisite: 52.101 or 102, 113.
- 52.113 CHEMISTRY LABORATORY †** 2 sem. hrs.
An introduction to theory and practice of fundamental chemistry laboratory techniques, including qualitative analysis. 4 hours/week: 1 class, 3 laboratory.
Prerequisite: either 52.101 or 102, concurrent or completed.
- 52.122 QUANTITATIVE ANALYTICAL CHEMISTRY †** 4 sem. hrs.
Fundamental principles of quantitative chemical analysis. Utilizes classical and modern instrumental techniques. Laboratory skills and calculations of quantitative analysis are stressed. 7 hours/week; 3 class, 4 laboratory.
Prerequisite: 52.102, 113.
- 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: 52.102, 113.
- 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: 52.102, 113.
- 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.
- 52.233 INTRODUCTORY BIO-ORGANIC CHEMISTRY †** 4 sem. hrs.
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 or 52.232.
- 52.311 PHYSICAL CHEMISTRY I** 4 sem. hrs.
Study of chemical thermodynamics with an introduction to quantum and statistical mechanics; kinetic-molecular theory of gases; the laws of thermodynamics; Gibbs free energy and equilibrium electrochemistry. 7 hours/week: 3 class, 4 laboratory.
Prerequisite: 52.102, 113; 54.211 or 111; 53.125, 126.
- 52.312 PHYSICAL CHEMISTRY II** 4 sem. hrs.
Continuation of 52.311; Schrodinger equation; molecular orbital theory; spectroscopy; rates and mechanisms of reactions. 7 hours/week: 3 class, 4 laboratory.
Prerequisite: 52.311; 54.212 or 112; 53.225.
- 52.322 INSTRUMENTAL ANALYTICAL CHEMISTRY** 4 sem. hrs.
Theory and laboratory applications of some of the instrumental methods of analysis. Topics include chromatography, spectrophotometry, polarography, electro-analysis, nuclear

magnetic resonance, and others. A laboratory-centered course. 7 hours/week: 3 class, 4 laboratory.

Prerequisite: 52.311.

52.413 PHYSICAL CHEMISTRY III 3 sem. hrs.

Further topics in physical chemistry chosen according to student interest. Possible topics of study are: quantum chemistry; physical biochemistry; statistical thermodynamics; macromolecular chemistry. 3 hours class/week.

Prerequisite: 52.312.

52.421 ADVANCED INORGANIC CHEMISTRY 3 sem. hrs.

Selected theories and principles of inorganic chemistry are studied and applied to a systematic analysis of the periodic relationships and properties of the elements. 3 hours class/week.

Prerequisite: 52.312 or concurrent.

52.422 ADVANCED LABORATORY 4 sem. hrs.

An integration of laboratory techniques common to organic, inorganic and biochemistry research. Topics include separation, synthesis, isolation, purification and structure determination. Interpretation of experimental results emphasized. 8 hours/week: 2 class, 6 laboratory.

Prerequisite: 52.232, 322.

52.433 ADVANCED ORGANIC CHEMISTRY 3 sem. hrs.

Advanced theory, stereochemistry and utility of organic reactions. Reactive intermediates emphasized. 3 hours class/week.

Prerequisite: 52.232; 52.312 or concurrent.

52.441 BIOCHEMISTRY 3 sem. hrs.

Chemistry of proteins, nucleic acids, lipids, carbohydrates; intermediary metabolism; introduction to enzyme chemistry. 3 hours class/week.

Prerequisite: 52.232, 52.312 or concurrent.

52.490 CHEMISTRY SEMINAR 1 sem. hr.

52.491 INDEPENDENT STUDY I — SPECIAL TOPICS CHEMISTRY 1-3 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. [see section 7.5]

52.492 INDEPENDENT STUDY II — CHEMICAL RESEARCH 3 sem. hrs.

Laboratory investigations of selected problems for advanced students. [see section 7.5]

COMPUTER AND INFORMATION SCIENCE

FACULTY:

The Bachelor of Science degree in Computer and Information Science (CIS) is offered jointly by the Department of Mathematics and the School of Business. Hence the resources of the college are combined to provide for students wishing a computer major.

Degree:

The degree, Bachelor of Science in Computer and Information Science (CIS) will be conferred upon successful completion of the Computer and Information Science curriculum.

Objectives:

The first objective of the program is to provide a broad educational base for intelligent citizenship. The core courses required will likewise provide a breadth of knowledge in the computer and information processing field. More specifically each student majoring in the program will be able to select courses, with the guidance of an advisor, which will accomplish one or more of the following purposes:

- (a) Prepare the graduate for positions in the computer industry.
- (b) Provide specific, marketable skills in business and scientific computing applications.
- (c) Prepare the graduate for further study in graduate programs in computer-related fields.

COMPUTER & INFORMATION SCIENCE:

Interdisciplinary major for the B.S. degree:

Required C.I.S.: Information Processing 92.250, 92.252, 92.256, 92.350, 92.452, 53.271;
 Required Non C.I.S.: Speech 25.103;
 Math 53.125, 53.126, 53.118, 53.123 (select any two);
 Accounting 91.221;
 Economics 40.211;
 Math (Statistics) 53.141 or 53.241;

Thirty (30) credits of restricted electives chosen from approved courses in Mathematics, Information Processing, Business and Economics.

ECONOMICS

FACULTY:

Professors U.S. Bawa, T.S. Saini; Associate Professors Barbara Dilworth, W.B. Lee (Chairperson), Robert MacMurray, R.K. Mohindru, Robert Ross; Assistant Professors Peter Bohling, Saleem Khan.

ECONOMICS:

Arts and Sciences Majors for the B.A. and B.S. degrees:

Economics 40.211, 212, 311, 312, 346; and one of the following concentrations.

B.A. degree, option I, 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 42.471, 472; fifteen semester hours elective in economics.

B.S. degree, intended for the student who is interested in analytical study of economics related to business: Business 91.221, 222, 93.343, 342, 345; twelve semester hours elective in economics.

B.A. degree, option II, 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 II: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.383; 40.316 with 44.453; 40.410 with 44.336; 40.315 with 44.326.) Study of a foreign language recommended.

Electives in economics, business and political science in any of the options require the adviser's approval.

COURSE DESCRIPTIONS.
(Code 40)

Courses marked † may be used toward General Education.

40.211 PRINCIPLES OF ECONOMICS I † **3 sem. hrs.**

Macroeconomics: Nature of the economic problem; economic concepts; institutional framework; supply, demand and the market mechanism; national income accounting; determination of output and employment levels; consumption, saving and investment behavior; business cycles; inflation and unemployment; monetary and fiscal institutions and theory; economic growth.

40.212 PRINCIPLES OF ECONOMICS II † **3 sem. hrs.**

Microeconomics: Supply, demand and the price system; theory of consumer behavior and the firm; cost and production analyses, output and price determination; resource allocation and determination of factor incomes under perfect and imperfect markets; current economic problems; international economics.

Prerequisite: 40.211.

40.246 BUSINESS AND ECONOMICS MATHEMATICS † **3 sem. hrs.**

Introduction to basic mathematical tools of business and economics, e.g., systems of linear equations, inequalities, elements of linear programming, matrix algebra, and differential and integral calculus.

**40.311 INTERMEDIATE MICRO-THEORY AND
MANAGERIAL ECONOMICS** **3 sem. hrs.**

Theory of consumer behavior and the firm; output and price determination under different market systems; pure competition, pure monopoly, oligopoly and monopolistic competition; production and cost analysis; allocation of resource and distribution of income; comparison of behaviors of competitive, monopolistic and oligopolistic product and resource markets; constrained and non-constrained optimization techniques and their applications to business decisions and business practices; welfare economics.

Prerequisites: 40.211, 212, 246.

40.312 INTERMEDIATE MACRO-ECONOMIC THEORY **3 sem. hrs.**

National income analysis, theory of income determination, employment and price levels; monetary and fiscal institutions, theory and policy; investment, interest and demand for money; business cycles; inflation and unemployment; national debt; macroeconomic equilibrium; prices, wages and aggregate supply, economic growth, foreign trade and balance of payments; economic policy.

Prerequisites: 40.211, 212, 246.

40.313 LABOR ECONOMICS **3 sem. hrs.**

Economics of the labor market; supply of and demand for labor; nature and theory of wages; productivity and inflation. Unionism; historical development; theories of labor movements; trade union governance; collective bargaining; government intervention and public policy.

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 economics 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 measures 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 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.
 Pure 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 ECONOMIC 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.
- 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.
- 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/she writes a report and makes a seminar presentation.
Prerequisite: Senior standing or permission of the instructor.
- 40.490 INDEPENDENT STUDY IN ECONOMICS** 1-3 sem. hrs.
 This course is offered to provide students with an opportunity to receive individualized instruction as he or she pursues an in-depth inquiry into previously specified subject matter of special interest within the field of economics. Topic and outline must be developed with a faculty sponsor and approved by the department during the preceding semester of residence. [see section 7.5]

ENGINEERING AND LIBERAL ARTS — COOPERATIVE PROGRAM

(G. Alfred Forsyth — Program Coordinator)

The faculties of Bloomsburg State College and the Colleges of Engineering and Earth and Mineral Science of The Pennsylvania State University agree to establish an educational program in liberal arts and engineering. Three years, or the equivalent, will be spent by an enrolling student at Bloomsburg State College, where the student will study liberal arts subjects along with pre-engineering courses in the basic sciences. Upon satisfactory completion of and recommendation from that program, the student will spend two years, or the equivalent, commencing with the Fall Term at The Pennsylvania State University. While at Penn State, he/she will complete the engineering course requirements as specified by

that institution. A successful completion of these programs will lead to an appropriate baccalaureate degree from each institution. This program was created to fulfill the following objectives:

1. *To provide cooperatively a general education in a liberal arts institution as well as technological education in a school of engineering for each student enrolled so that through five years of study a student may complete what otherwise could require six or more years.*
2. *To allow a student who has not yet made a decision between engineering and other disciplines, an opportunity to examine his/her appropriate aptitudes and explore the various areas of study more carefully.*
3. *To provide a student with a planned sequence of liberal arts courses which, if completed successfully, would guarantee the student acceptance at an engineering school at times when student applications to such schools might exceed their capacity.*
4. *To allow those qualified students to receive both a liberal and technical education at relatively low costs and in so doing, provide the Commonwealth and the Nation with more well-educated engineers.*

Application for admission to the program will be made to Bloomsburg State College. The candidate will be subject to its admission requirements.

A student will indicate the desire to follow the 3-2 program either at the time of admission to Bloomsburg State College, or early enough in the student's program to permit him/her to complete all required prerequisite courses. Results from aptitude and achievement tests, records of scholastic achievement, and other pertinent information will be exchanged between institutions to aid both in guiding and counseling enrolled students and prospective students. A list of declared student's admissions profiles will be prepared by the Bloomsburg State College admissions office each semester and forwarded to the appropriate office at Penn State to provide some indication of the number and academic quality of individuals entering the 3-2 program.

At the end of the second semester (Spring) of the second year, a student becomes a candidate for transfer if he/she has maintained a quality point average of 2.50 or better (4.00=A) at Bloomsburg State College and is recommended (by letter) for transfer by the Bloomsburg faculty.

Bloomsburg State College may require higher academic standards for its generic students seeking to transfer. To insure referral of students who will make a significant contribution to the engineering profession, and to increase the likelihood of their success within the program, the Bloomsburg faculty has instituted the minimum standard of a 2.75 quality point average (4.00=A) in all required prerequisite courses, in addition to the 2.50 overall QPA for receiving a recommendation for transfer to any engineering program at Penn State.

A Pre-Engineering Advisory Committee consisting of representatives from each department preparing students for study in the 3-2 program, acts as the screening and recommending committee responsible for upholding the tenets of this articulation agreement. This committee assists in student recruitment and advisement and monitors any changes proposed in the cooperative agreement, communicating these changes to the Vice President for Academic Affairs in an advisory role.

The Pennsylvania State University may require a higher grade point average because of space availability, departmental facilities, or changes in programs. Any proposed change in the minimum quality point average will be communicated in writing between institutional representatives as soon as the need for change is identified. All changes will become effective with those students entering Bloomsburg State College in the Fall, after Bloomsburg has been notified of the changes.

To initiate the transfer from one institution to the other, the individual student should request an application from the Admissions Office of the Pennsylvania State University in September of his/her third year at Bloomsburg. The

request should include a statement that the application is for the 3-2 program. The application should clearly indicate that the student is applying as a 3-2 student and should be submitted promptly — no later than November 30th. The completed application should be supported by the following credentials: final high school record; two copies of the official Bloomsburg State College transcript including all grades earned through the Spring Semester of the second year and a schedule of courses for the Fall and Spring of the third year; and a *recommendation* from Bloomsburg State College's Pre-Engineering Advisory Committee that the student be admitted to the 3-2 program. The application and supporting credentials will be evaluated by the appropriate officer in the Admissions Office and the Office of the Dean of the College of Engineering at The Pennsylvania State University. If the applicant meets the minimum requirements, the applicant will be offered provisional admission to the Pennsylvania State University in the 3-2 program commencing with the Fall term.

At the end of the Spring semester of the third year, two copies of the final official transcript of work taken at Bloomsburg should be forwarded to the Admissions Office at The Pennsylvania State University. The applicant's admission to Penn State will be changed from provisional basis to a permanent basis if the student has maintained an overall average above 2.50 or that which is required by the Agreement at the time the student enters the program at Bloomsburg, is in good standing at Bloomsburg, and has fulfilled all conditions, if any, specified in the student's provisional admission.

All information and correspondence pertaining to any changes in the tenets of this agreement including enrollment restrictions and transfer requirements will be channeled through the offices of the two institutional representatives of this program; the Office of the Vice President for Academic Affairs at Bloomsburg State College and the Office of the Dean of the College of Engineering at The Pennsylvania State University.

A student recommended for transfer will be eligible to enter any of the following engineering curricula with seventh term standing:

Aerospace Engineering	Industrial Engineering
Agricultural Engineering	Mechanical Engineering
Ceramic Science & Engineering	Metallurgy
Chemical Engineering	Mining Engineering
Civil Engineering	Nuclear Engineering
Electrical Engineering	Petroleum and Natural Gas
Engineering Science*	Engineering
Environmental Engineering	

**Enrollment in the Engineering Science program is limited to those students attaining an average of "B" or higher during their program at Bloomsburg State College and to those specially chosen by The Pennsylvania State University faculty on basis of evidence that they will profit from the advanced courses.*

An entering student at Bloomsburg State College who plans to follow the 3-2 cooperative program will be enrolled in a pre-engineering liberal arts curriculum which *will include all* of the following courses that comprise the required subjects to be taken at Bloomsburg State College for transfer to the Colleges of Engineering or Earth and Mineral Sciences at The Pennsylvania State University. Descriptions of all of these courses are published in this and The Pennsylvania State University catalog.

These courses must be completed before transferring:

Bloomsburg State College	Equivalent Penn State Course
Mathematics	Mathematics
53, 125, 126, 225, 226, 322, 314	161, 162, 240, 250, 260
(18 credits)	

Chemistry
52.102, 113, 122 (10 credits)
Physics
54.211, 212, 310 (11 credits)
English
20.101, 200 or 201, 104 (6 credits)
Speech Communications
25.103 (3 credits)
Computer Science
53.271 (3 credits)
²Engineering Drawing
³Engineering Mechanics

Chemistry
12, 14, 13, 15
Physics
201, 202, 203 or 204
English
Engl 10, 20
Communications
Sp. Com. 200 or Eng. 117
Computer Science
201
Engineering Graphics
10, 11
Engineering Mechanics
11, 12

²Taken by correspondence from The Pennsylvania State University or elsewhere *before* transfer. Eg 11 is not required by Ceramic Science or Metallurgy students.

³Taken by correspondence from The Pennsylvania State University or elsewhere before transfer. The dynamics course equivalent to EMch 12 is not required by Ceramic Science, Chemical Engineering, Metallurgy, Nuclear Engineering, and Petroleum and Natural Gas Engineering students.

Students intending to enroll in the major of Chemical Engineering *must* also have completed Organic Chemistry I and II (52.231 and 232) at Bloomsburg State College but need not have taken Engineering Mechanics 12 (Dynamics).

Students intending to enroll in the major of Aerospace, Electrical or Nuclear Engineering must also have completed Math 53.491 — Special Topics or Math 53.492 — Independent Study (Partial Differential Equations) at Bloomsburg State College before transferring to The Pennsylvania State University.

Students intending to enroll in the major of Mining Engineering should schedule Earth Science 51.101 (Physical Geology) and 51.361 (Mineralogy). Students in Petroleum and Natural Gas Engineering should schedule 51.101 and 51.102 (Historical Geology).

Arts, Behavioral and Social Sciences, and Humanities courses, and General Education Requirements of Bloomsburg State College should be selected by the student so that they will concurrently satisfy the Arts, Behavioral and Social Sciences, and Humanities requirements of the College of Engineering and of Earth and Mineral Sciences.

The list of recommended courses is available in the office of the program coordinator.

ENGLISH

FACULTY:

Professors Louis F. Thompson (Chairperson), Charles C. Kopp, Susan Rusinko, Gerald H. Strauss; Associate Professors M. Dale Anderson, William M. Baillie, William D. Eisenberg, Ronald A. Ferdock, Lawrence B. Fuller, Ervene F. Gulley, Margaret Read Lauer, Richard C. Savage; Assistant Professors Virginia A. Duck, Nancy E. Gill, Robert G. Meeker, Riley B. Smith.

ENGLISH:

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

English 20.363; 20.311 or 20.312 or 20.411; 20.488 or 20.489 or 20.490; 20.493;
Three 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, 372, 373, 374, 380;
 Three additional 300-level or 400-level English courses, excluding 20.304, 305.

Certificate in Journalism

The Certificate in Journalism implies introductory preparation for publication activity in teaching or in business. It is granted by the College when the student has completed three courses chosen from 20.105, 205, 255, 304, 305, and at least two years of satisfactory service as a staff member of the *Campus Voice*, *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, Section (9.03).

COURSE DESCRIPTIONS

(Code 20)

ENGLISH COMPOSITION: The student must take English 20.101 and 20.200 or 201 (six semester hours) or, if he or she is selected on basis of admission criteria, English 20.104 only (three semester hours).

20.101 COMPOSITION I 3 sem. hrs.

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

20.104 HONORS COMPOSITION 3 sem. hrs.

Experiences similar to those of 20.101 but reserved for freshmen who have been exempted from 20.101 on the basis of admissions criteria. Students who successfully complete 20.104 are exempt from 20.200 and 201.

20.105 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.

20.106 WRITING FOR QUEST 2 sem. hrs.

(Summer Quest students only)

20.111 LANGUAGE AND SOCIAL INTERACTION [†] 3 sem. hrs.

A study of the forms and uses of verbal and non-verbal language, with a focus on the interplay of varieties and styles of Modern English with both social group and cultural background.

Not applicable toward a major in English.

20.120 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 WORLD LITERATURE II [†] 3 sem. hrs.

Important literary works of the Western world from the 17th century to the present.

20.131 THE BIBLE AS LITERATURE [†] 3 sem. hrs.

Examines literary types found in Old and New Testaments and their profound influence on Western culture. *Not applicable toward a major in English.*

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 applicable toward a major in English.*

- 20.153 FOLKLORE †** 3 sem. hrs.
A survey of such traditional forms of oral literature as epic, ballad, folksong, folk-tale, and superstitions, examined in terms of origin, transmission, and influence on literature. *Not applicable toward a major in English.*
- 20.200 WRITING PROFICIENCY EXAMINATION** 3 sem. hrs.
A series of compositions written under examination conditions on topics provided by the staff. Faculty consultation and a writing laboratory are available for students in the course.
Prerequisite: 20.101.
- 20.201 COMPOSITION II** 3 sem. hrs.
An alternative to English 200, Writing Proficiency Examination. Includes a series of themes, a long paper, and practice in library research to reinforce and expand skills acquired in Composition I.
Prerequisite: 20.101.
- 20.205 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.
Prerequisite: 20.105.
- 20.220 BRITISH WRITERS I †** 3 sem. hrs.
Survey of selections from Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Boswell, and Johnson.
- 20.221 BRITISH WRITERS II †** 3 sem. hrs.
Survey of selections from Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot.
- 20.222 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 AMERICAN LITERATURE II †** 3 sem. hrs.
Continues 20.222, covering major writers and significant social and literary movements to the present day.
- 20.251 LITERARY GENRES †** 3 sem. hrs.
Literary form as a vehicle for expression of ideas.
- 20.255 MASS MEDIA: PRINT †** 3 sem. hrs.
Survey of current print media with emphasis on evolution, forms, and content, and social/political impact of print media; relationships with other media; print freedom and the law.
- 20.280 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 CREATIVE WRITING** 3 sem. hrs.
Original creative work in one or more of the genres, as determined by the instructor; critical analysis by the instructor and the class in group discussion.

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

Designed for English majors and minors, 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 evaluating writing.

Prerequisite: 60 credits completed.

20.304 EDITING**3 sem. hrs.**

Emphasizes how to improve writing submitted for publication in newspapers, magazines, brochures; how to guard against libel and violations of ethics and good taste; and how to check for accuracy of submitted material.

Prerequisite: 20.105. Not applicable toward an Arts and Sciences major nor as an area of emphasis in English within Elementary Education.

20.305 JOURNALISM SEMINAR**3 sem. hrs.**

Independent study and practical training in covering college and community events to help the student understand techniques of in-depth reporting and learn how to polish a news story in terms of structure, analysis, and language.

Prerequisite: 20.105 and either 20.205 or 304, or permission of instructor. Not applicable towards an Arts and Sciences major nor as an area of concentration in English within Elementary Education.

20.311 STRUCTURE OF ENGLISH**3 sem. hrs.**

A linguistic study of modern English, with analyses of its phonology, morphology, word-formation processes, lexicography, and syntax.

Prerequisite: 60 credits completed.

20.312 HISTORY OF THE ENGLISH LANGUAGE**3 sem. hrs.**

A study of the English language from the time of its earliest records to the present day, with reference to the developments in its graphic system, sounds, inflections, lexical forms, syntactic patterns, and semantics.

Prerequisite: 60 credits completed.

20.331 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.

20.332 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 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, Steinbeck, Barrio, Momaday included.

20.334 MAJOR AMERICAN WRITERS †**3 sem. hrs.**

Study of major American writers instrumental in shaping and interpreting the American experience. Writers included will vary with each presentation of the course.

20.336, 337, 338 MAJOR BRITISH WRITERS †**3 sem. hrs.**

A study of major British writers instrumental in shaping and interpreting British literature and the British mind and experience. Writers included will vary with each presentation of the course.

- 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 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 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 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 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 LITERATURE FOR CHILDREN** 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: 60 credits completed. Not applicable toward an Arts and Sciences major in English.
- 20.352 LITERATURE FOR ADOLESCENTS** 3 sem. hrs.
Explores the historical development of literature aimed at adolescents or popular with them. Studies representative works in a variety of genres to determine thematic and stylistic characteristics and literary merit.
Prerequisite: 60 credits completed. Not applicable toward an Arts and Sciences major in English.
- 20.360 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.
- 20.362 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.
- 20.363 SHAKESPEARE** † 3 sem. hrs.
Study 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.
- 20.370 THE ENGLISH NOVEL** † 3 sem. hrs.
History and development of the novel in England from its inception to the end of the Nineteenth Century.

- 20.372 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 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 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 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 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.
- 20.383 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 system in English literature.
- 20.400 LITERARY STUDY ABROAD** 3 sem. hrs.
 A travel-study course for English majors and non-majors to concentrate on a writer or literary problem in the perspective of their disciplines. Includes meetings with writers and scholars and use of native sources and resources. Area of emphasis is determined by the instructor.
- 20.411 MODERN LINGUISTIC THEORY** 3 sem. hrs.
 A survey of the important developments in grammar and grammatical philosophy from Classical times to the present, with special attention given to generative — transformational linguistics and its influence on traditional presentations of English grammar in American schools.
Prerequisite: 60 credits completed.
- 20.413 LANGUAGE IN AMERICAN SOCIETY** 3 sem. hrs.
 Social, political, and philosophical perspectives on the historical development and current status of English and other languages in American society.
Prerequisite: 60 credits completed.
- 20.440 INDEPENDENT STUDY IN ENGLISH** 3 or 6 sem. hrs.
Prerequisite: 60 credits completed.
[see section 7.5]
- 20.482 MILTON** 3 sem. hrs.
 A comprehensive study of the poetry and prose of John Milton.

20.488, 489, 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: 60 credits completed. 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.

Prerequisite: 60 credits completed and approval of instructor.

20.492 LITERARY CRITICISM**3 sem. hrs.**

Examination in depth of major critics from Aristotle to the present; emphasis on application of critical principles to primary genres — drama, poetry, novel.

Prerequisite: 60 credits completed.

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.

Prerequisite: 60 credits completed.

20.494 RHETORIC OF LITERATURE

Studies systematically the major rhetorical devices used by writers in the various literary genres. It is intended to examine the nature of rhetoric and to explore the range of rhetorical designs from the shortest communications to the whole composition. Study centers on definitions of concepts, identification and location of these language devices in representative works of drama, prose and poetry, description of functions and analysis of communication effects on the reading audience. Essentially, the course studies how writers manipulate language to communicate in literature.

Prerequisite: 60 credits completed.

20.497 INTERNSHIP**3-6 sem. hrs.**

A work-study program open only to English majors who have completed 60 credits. *Not applicable toward requirements of English major and minor programs.*

FOREIGN LANGUAGES

FACULTY:

Professors C. Whitney Carpenter II, Ariadna Foureman, Allen F. Murphy (Chairperson), Eric W. Smithner, Alfred E. Tonolo; Associate Professors Blaise C. Delnis, Mary Lou John, George W. Neel, Christine T. Whitmer; Assistant Professor Ben C. Alter, Kevin G. Daly.

Placement

Students who have studied a language elsewhere than at Bloomsburg State College should consult the Department Chairperson for appropriate placement.

Language Laboratory

Weekly laboratory sessions are recommended in courses number 100-104. Students are encouraged to make use of the language laboratory facilities on a voluntary basis.

Programs Abroad

All language students are urged to seek opportunities to study abroad. Although Bloomsburg State College has no single study abroad program, students have access to many accredited programs sponsored by other colleges and universities. Students are encouraged to make plans to study abroad early in their academic career. The Chairperson of the Department should be consulted regarding such plans.

Arts 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 100, 101, 102. If a student is exempt from any required courses, he or she takes additional advanced electives as substitutes.

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

Secondary Education Majors

Requirements for the major for the B.S. in Education degree are found in the section on Secondary Education, School of Professional Studies (Section 9.2).

Elementary Education Minors

It is recommended that a student in Elementary Education who elects an area of concentration in foreign languages schedule one course in Conversation, one in Civilization, and the Folklore course. Beginning courses (100, 101, and 102) may also be included within the required eighteen hours.

FRENCH:

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

French: 10.103, 104, 201, 202, 203, 211 or 212, 322;

Electives: nine semester hours to be selected from culture and civilization, language, or literature.

COURSE DESCRIPTIONS

(Code 10)

Courses designed † may be used toward General Education.

10.100 FRENCH I A † **4 sem. hrs.**

Designed to develop the four language skills. Weekly lab sessions recommended. Only for students with less than one year or no prior experience in French. Followed by a special section of 10.102 in the Spring.

10.101 FRENCH I B † **4 sem. hrs.**

Designed to develop the four language skills. Weekly lab sessions recommended. For students with no more than two years of previous study in French.

10.102 FRENCH II † **4 sem. hrs.**

Continuation of 10.100 or 101. Weekly lab sessions recommended.
Prerequisite: 10.100 or 101 or equivalent.

10.103 FRENCH III † **3^o 7/8 fl. ff+^o.**

Continuation of development of the four language skills. Review of structure patterns. Weekly lab sessions recommended.

Prerequisite: 10.102 or equivalent.

- 10.104 FRENCH IV †** 3 sem. hrs.
Continuation of French 10.103.
Prerequisite: 10.103 or equivalent.
- 10.201 STRUCTURE OF THE FRENCH LANGUAGE †** 3 sem. hrs.
Thorough study of grammar and syntax, and use of idioms through applied exercises.
Prerequisite: 10.104 or equivalent.
- 10.202 ORAL EXPRESSION I †** 3 sem. hrs.
Prepared and free speaking activities about everyday life.
Prerequisite: 10.104 or equivalent.
- 10.203 FRENCH WRITTEN EXPRESSION †** 3 sem. hrs.
Application of grammatical principles in written compositions, essays and critical analyses.
Prerequisite: 10.201 or equivalent.
- 10.204 FRENCH STUDIES ABROAD †** 1-6 sem. hrs.
Prerequisite: Minimum 2 semesters of French.
- 10.205 COMMERCIAL FRENCH †** 3 sem. hrs.
Acquisition of French commercial language and terminology in reading, writing and speaking. Brief background of business life in France today. Business correspondence.
Prerequisite: 10.104 or equivalent.
- 10.209 PHONETICS: SOUNDS OF THE FRENCH LANGUAGE †** 3 sem. hrs.
Analysis of the French sound system. Drills on pronunciation and intonation. Selections of prose, poetry and songs for imitation.
Prerequisite: 10.102 or equivalent.
- 10.211 FOUNDATIONS OF FRENCH CULTURE AND CIVILIZATION †** 3 sem. hrs.
Major developments of French culture from the historical point of view. Course taught in English. Special projects for French majors.
- 10.212 FRANCE TODAY †** 3 sem. hrs.
Major aspects of life in France today. Course taught in English. Special projects for French majors.
- 10.231 SELECTED READINGS †** 3 sem. hrs.
French for reading knowledge; selected modern works.
Prerequisite: 10.104 or equivalent.
- 10.281-289 SPECIAL TOPICS †** 1-3 sem. hrs.
Designed to give students knowledge and training in fields usually not covered in regular courses. Content is determined by instructor and varies each time the course is offered. Some possible topics are French for Travelers, French Gastronomy, and others.
- 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.
Prerequisite: 10.201.
- 10.302 ORAL EXPRESSION II** 3 sem. hrs.
Further development of language fluency through discussion and current topics and issues selected from French newspapers and magazines.
Prerequisite: 10.202 or equivalent.

- 10.310 FOLKLORE** 3 sem. hrs.
Study of selected forms and writings such as proverbs, farces, fairy tales, songs, and traditions characteristic of the French.
- 10.322 FRENCH WRITERS AND PLAYWRIGHTS** 3 sem. hrs.
Most significant writers and playwrights of France.
Prerequisite: 10.201 or 203.
- 10.341 FRENCH LITERATURE IN ENGLISH 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, Diderot and others. *Does not count toward a major in French.*
- 10.342 FRENCH LITERATURE IN ENGLISH 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. *Does not count toward a major in French.*
- 10.401 ADVANCED FRENCH LANGUAGE** 3 sem. hrs.
Thorough review of phonology, morphology, syntax and semantics.
- 10.435 SEMINAR IN MODERN FRENCH LITERATURE** 3 sem. hrs.
Study of a particular genre, movement, period, work, or major. The topic of the seminar is decided by the instructor considering the needs of prospective students during the semester preceding its offering.
Prerequisite: any 300 level course.
- 10.490 INDEPENDENT STUDY IN FRENCH** 1-9 sem. hrs.
Individual study of a particular aspect of French civilization, language, or literature under the supervision of a faculty member.
Prerequisite: Permission of instructor and approval from Chairperson.
- [see section 7.5]
- 10.495 ART AND CULTURE OF FRANCE** 3 sem. hrs.
A study-tour of France with specific attention to French art seen in relation to its social and cultural environment. Visits to places of artistic and cultural interest in and around Paris and the Provinces.

GERMAN:

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

German: 11.103, 104, 201, 202, 211;

Electives: fifteen semester hours to be selected from culture and civilization, language, or literature.

COURSE DESCRIPTIONS

(Code 11)

Courses designed † may be used toward General Education.

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

- 11.100 GERMAN I A †** 4 sem. hrs.
Direct method approach to develop the four language skills stressed. Weekly laboratory sessions required. Recommended for students with no previous background or not more than one year of study in German. Followed by a special section of 11.102 in the Spring. *Fall only.*

- 11.101 GERMAN I B †** 4 sem. hrs.
Designed to develop the four language skills. Basic grammar stressed. Recommended for students with no more than two years of previous study in the language.
- 11.102 GERMAN II †** 4 sem. hrs.
Continuation of 11.101. Reading and writing given additional emphasis.
Prerequisite: 11.101 or equivalent.
- 11.103 GERMAN III †** 3 sem. hrs.
Basic grammar reviewed and new grammatical concepts presented.
Prerequisite: 11.102 or equivalent.
- 11.104 GERMAN IV †** 3 sem. hrs.
Continuation of 11.103.
Prerequisite: 11.103 or equivalent.
- 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 composition. *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, or concurrently with 104 with permission from Chairperson.
- 11.204 GERMAN STUDIES ABROAD †** 1-6 sem. hrs.
Prerequisite: Minimum 2 semesters of German.
- 11.211 GERMAN CULTURE AND CIVILIZATION I †** 3 sem. hrs.
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. Course taught in English. No knowledge of German necessary. *Fall.*
- 11.212 GERMAN CULTURE AND CIVILIZATION II †** 3 sem. hrs.
Continuation of 11.211. Course taught in English. No knowledge of German necessary. *Spring.*
- 11.231 SELECTED READINGS †** 3 sem. hrs.
German for reading knowledge; selected modern works. Recommended for the student in Elementary Education.
Prerequisite: 11.104 or equivalent.
- 11.301 TEXTE ZUM NACHERZAEHLEN** 3 sem. hrs.
Short prose selections read and repeated from memory, building vocabulary growth and better expression. Exercises in translation to illustrate differences in thought and expression between German and English. *Fall.*
Prerequisite: 11.201 or equivalent.
- 11.310 FOLK LITERATURE** 3 sem. hrs.
Study of folk genres on both social and literary aspects of German folklore. Recommended for students in Elementary Education.
Prerequisite: 11.201 or 202.

- 11.325 MASTERPIECES OF GERMAN LITERATURE †** 3 sem. hrs.
 Readings and discussions of representative works from the early period of German literature to the present.
Prerequisite: 11.201 or 202.
- 11.326 GOETHE AND SCHILLER** 3 sem. hrs.
 The life and works of these best-known German authors and relevancy of their art and ideas to our times.
Prerequisite: 11.325.
- 11.331 CONTEMPORARY PLAYS** 3 sem. hrs.
 Selected plays of the major modern German playwrights: Brecht, Frisch, Durrenmatt, Weis, and others.
Prerequisite: 11.201 or 202.
- 11.333 GERMAN PROSE** 3 sem. hrs.
 The *Novelle* and *Erzahlungen* of the 19th and 20th centuries.
Prerequisite: 11.201 or 202.
- 11.341 GERMAN AUTHORS OF THE TWENTIETH CENTURY I** 3 sem. hrs.
 Works of major German authors such as Hesse, Brecht, Mann, Kafka, Durrenmatt, Boll read and discussed. Taught in English. No knowledge of German necessary. *Does not count toward a major in German.*
- 11.342 GERMAN AUTHORS OF THE TWENTIETH CENTURY II** 3 sem. hrs.
 Continuation of 11.341. Taught in English. No knowledge of German necessary. *Does not count toward a major in German.*
- 11.401 ADVANCED GERMAN LANGUAGE** 3 sem. hrs.
 Thorough review of phonology, morphology, syntax, and semantics.
Prerequisite: 11.201 or 202.
- 11.403 WORKSHOP** 3 sem. hrs.
 Selected materials for practical use. Recommended for Secondary Education majors.
Prerequisite: 11.201 or 202.
- 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.
Prerequisite: 11.211 or 212.
- 11.420 MODERN GERMAN LITERATURE** 3 sem. hrs.
 Reading and discussion of German Literature of the 19th and 20th Centuries up to World War II.
Prerequisite: 11.325.
- 11.421 CONTEMPORARY GERMAN LITERATURE** 3 sem. hrs.
 Reading and discussion of German Literature since World War II.
Prerequisite: 11.325.
- 11.490 INDEPENDENT STUDY IN GERMAN** 1-9 sem. hrs.
 Individual study of a particular aspect of German civilization, language, or literature under the supervision of a faculty member.
Prerequisite: Permission of instructor and approval from Chairperson.

SPANISH

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

Spanish: 12.103, 104, 201, 202, 210 or 211, 230;

Electives: twelve semester hours to be selected from culture and civilization, language or literature.

COURSE DESCRIPTIONS

(Code 12)

Courses designed † may be used toward General Education.

- 12.100 SPANISH I A †** 3 sem. hrs.
 Designed to develop the four language skills. Basic grammar stressed. Weekly laboratory sessions required. Open only to students with no prior experience in Spanish. Followed by a special section of 12.102 in the Spring. *Fall only.*
- 12.101 SPANISH I B †** 3 sem. hrs.
 Designed to develop the four language skills. Weekly laboratory sessions recommended.
- 12.102 SPANISH II †** 3 sem. hrs.
 Continuation of 12.101. Reading and writing given additional emphasis. Weekly laboratory sessions recommended.
Prerequisite: 12.101 or equivalent.
- 12.103 SPANISH III †** 3 sem. hrs.
 Emphasis placed on use of language. Grammar reviewed as necessary.
Prerequisite: 12.102 or equivalent.
- 12.104 SPANISH IV †** 3 sem. hrs.
 Continuation of 12.103.
Prerequisite: 12.103 or equivalent.
- 12.201 WRITTEN EXPRESSION †** 3 sem. hrs.
 Stress on application of grammatical principles in controlled and free written compositions. *Fall.*
- 12.202 ORAL EXPRESSION I †** 3 sem. hrs.
 Student participation emphasized in prepared and free speaking activities. Outside readings and oral reports assigned. *Spring.*
Prerequisite: 12.104 or equivalent, or concurrently with 104 with permission from Chairperson.
- 12.203 COMMERCIAL SPANISH †** 3 sem. hrs.
 For students enrolled in business administration. Course designed to acquaint students with basic skills in Spanish trade correspondence and commercial reading. Special emphasis placed on vocabulary, and commercial idioms. Elementary knowledge of commercial life and methods stressed.
Prerequisite: 12.102 or two years of high school Spanish or equivalent.
- 12.204 SPANISH STUDIES ABROAD †** 1-6 sem. hrs.
Prerequisite: Minimum 2 semesters of Spanish.
- 12.206 BASIC CONVERSATION IN SPANISH FOR HEALTH PROFESSIONALS** 3 sem. hrs.
 For students enrolled in Health Services. Designed to acquaint students with Spanish so that they will be able to communicate with Spanish-speaking patients.
Prerequisite: 12.202 or 203.

- 12.209 PHONETICS †** 3 sem. hrs.
 Contrastive analysis of English and Spanish sound systems. Designed to perfect pronunciation and intonation. *Spring.*
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: 12.104 or equivalent.
- 12.211 SPANISH AMERICAN CULTURE AND CIVILIZATION †** 3 sem. hrs.
 Understanding and appreciation of the present and past life of the Spanish-American Republics. Aztec, Maya and Inca cultures included in addition to films and outside reading. *Spring.*
Prerequisite: 12.104 or equivalent.
- 12.230 INTRODUCTION TO THE STUDY OF LITERATURE †** 3 sem. hrs.
 Basic analysis of selected poems, plays, novels, and essays. Basic concepts of genres, literary currents and schools. *Fall.*
Prerequisite: 12.103 or equivalent.
- 12.231 SELECTED READINGS †** 3 sem. hrs.
 Reading and discussion of selected modern works.
Prerequisite: 12.104 or equivalent.
- 12.301 STRUCTURE AND TRANSLATION** 3 sem. hrs.
 Study of structural patterns of Spanish in comparison with English. Problems of translation.
Prerequisite: 12.201.
- 12.302 ORAL EXPRESSION II** 3 sem. hrs.
 Further development of language fluency through discussion of a variety of topics and through activities requiring the use of the spoken language. Student participation emphasized. *Fall.*
Prerequisite: 12.202.
- 12.321 SURVEY OF SPANISH LITERATURE** 3 sem. hrs.
 Outstanding authors from the beginning of Spanish Literature to the present day.
Prerequisite: 12.230.
- 12.323 SURVEY OF SPANISH AMERICAN LITERATURE** 3 sem. hrs.
 Outstanding authors from pre-Columbian times to present day.
Prerequisite: 12.230.
- 12.330 SHORT STORY †** 3 sem. hrs.
 Intended to promote literary appreciation of the short story in Spanish. Selected works read and discussed.
Prerequisite: 12.230.
- 12.341 SPANISH LITERATURE IN ENGLISH TRANSLATION** 3 sem. hrs.
 Reading, analysis, and discussion of works of Spanish literature and contemporary thought. Taught in English. No knowledge of Spanish necessary. *Not applicable toward a major in Spanish.*
- 12.342 LATIN AMERICAN LITERATURE IN ENGLISH TRANSLATION** 3 sem. hrs.
 Reading, analysis, and discussion of works of Latin American literature and contemporary thought. Taught in English. No knowledge of Spanish necessary. *Not applicable toward a major in Spanish.*

12.421 SEMINAR IN SPANISH LITERATURE

3-6 sem. hrs.

Study of a particular genre, movement, period, work, or major author. The topic of the seminar may be decided between the instructor and the prospective students during the semester preceding the offering of a seminar. May be repeated once.

Prerequisite: 12.321.

12.423 SEMINAR IN SPANISH AMERICAN LITERATURE

3-6 sem. hrs.

Study of a particular genre, movement, period, work, or major author. The topic of the seminar may be decided between the instructor and the prospective students during the semester preceding the offering of a seminar. May be repeated once.

Prerequisite: 12.323.

12.490 INDEPENDENT STUDY IN SPANISH

1-9 sem. hrs.

Individual study of a particular aspect of Hispanic civilization, language, or literature under the supervision of a faculty member.

Prerequisite: Permission of instructor and approval of Chairperson.

[see section 7.5]

RUSSIAN**COURSE DESCRIPTIONS**

(Code 13)

† General Education courses.

13.101 RUSSIAN I †

4 sem. hrs.

Audio-lingual and structural approach to acceptable pronunciation; vocabulary; concomitant mastery of the Cyrillic alphabet. *Fall.*

13.102 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 RUSSIAN III †

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.

13.104 RUSSIAN IV †

3 sem. hrs.

Continuation and reinforcement of skills acquired in 13.103. *Spring.*

Prerequisite: 13.103 or equivalent.

13.290 INDEPENDENT STUDY IN RUSSIAN †

1-9 sem. hrs.

Individual study of a particular aspect of Russian civilization, language, or literature under the supervision of a faculty member.

Prerequisite: Permission of instructor and approval of Chairperson.

[see section 7.5]

ITALIAN**COURSE DESCRIPTIONS**

(Code 14)

† General Education courses.

14.101 ITALIAN I †

3 sem. hrs.

Designed to develop the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall.*

- 14.102 ITALIAN II †** 3 sem. hrs.
Continuation of 14.101. Reading and writing given additional emphasis. Weekly laboratory sessions required. *Spring*.
Prerequisite: 14.101 or equivalent.
- 14.103 ITALIAN III †** 3 sem. hrs.
Basic grammar reviewed and new grammatical concepts presented. Weekly laboratory sessions required. *Fall*.
Prerequisite: 14.102 or equivalent.
- 14.104 ITALIAN IV †** 3 sem. hrs.
Continuation of 14.103. *Spring*.
Prerequisite: 14.103 or equivalent.

POLISH

COURSE DESCRIPTIONS (Code 15)

- 15.101 POLISH I †** 4 sem. hrs.
Designed to develop the four language skills. Basic grammar stressed. Weekly laboratory sessions required. *Fall*.
- 15.102 POLISH II †** 4 sem. hrs.
Continuation of 15.101. Reading and writing given additional emphasis. Weekly laboratory sessions required. *Spring*.
Prerequisite: 15.101 or equivalent.

GENERAL

(Code 16)

- 16.109 LANGUAGE FOR SINGING** 1 sem. hr.
Practice and acquisition of correct pronunciation in French, German, and Italian for voice majors and students singing in choirs. Spanish upon demand.

PORTUGUESE

(Code 17)

- 17.101 PORTUGUESE I †** 3 sem. hrs.
Designed to develop oral skills initially, followed by reading and writing. *Fall*.
- 17.102 PORTUGUESE II †** 3 sem. hrs.
Continuation of 17.101. Designed to develop further the four language skills. *Spring*.

LATIN

COURSE DESCRIPTIONS (Code 18)

- 18.101 LATIN I †** 3 sem. hrs.
Designed to develop reading and writing with emphasis placed on correct Classical pronunciation. *Fall*.
- 18.102 LATIN II †** 3 sem. hrs.
Continuation of 18.101. Reading selections used to develop skill in reading and translation and to teach students Classical references. *Spring*.
Prerequisite: 18.101 or equivalent.

18.111 ROMAN CIVILIZATION †

1 sem. hr.

Introduction to Roman institutions and life styles.

18.112 INTRODUCTION TO ROMAN LITERATURE †

1 sem. hr.

An introduction to Roman literature from the Early Republic through the Age of Augustus.



GEOGRAPHY AND EARTH SCIENCES

FACULTY:

Professors Wendelin R. Frantz (Chairperson), Bruce E. Adams, John A. Enman, Lee C. Hopple; Associate Professors Norman M. Gillmeister, Brian A. Johnson, James R. Lauffer, James T. Lorelli, Lavere W. McClure, Mark A. Hornberger; Assistant Professors Duane D. Braun, Joseph R. Pifer, John J. Serff, Jr., George E. Stetson.

GEOGRAPHY

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

Option I. (General): 41.101, 102; 24 semester hours in courses with code numbers 41 and 51 with at least one course from each of four areas: Systematic Physical — 41.253, 256, 51.101, 255, 259; Human Geography — 41.213, 221, 258, 310, 324, 370, 404, 444, 463; Regional — 41.321, 333, 343, 344, 345, 346, 347; Techniques — 41.254, 442, 462.

Option II. (Emphasis or Urban and Regional Planning): 24 semester hours required in Planning including 41.150, 41.254, 41.350, 41.497, and 41.498.

15 semester hours from 41.221, 258, 310, 370, 442, 454, 462, 463, 51.101, 105;

3 semester hours from 40.211, 212, 316, 410;

3 semester hours from 44.351, 356, 437, 453;

3 semester hours from 45.211, 233, 316, 468, 477;

3 semester hours from 32.250, 48.260, 53.171, 53.141.

EARTH SCIENCE:**Arts and Sciences major for the B.A. degree:**

Earth Science 51.101, 102, 111, 112, 253, 255, 259; plus 3 additional courses elected from 51.105, 361, 362, 365, 396, 370, 461, 468, 475, and approved courses offered by the Marine Science Consortium; Mathematics 53.112; 53.113 or 53.123; Chemistry 52.102, 113; Physics 54.111, 112.

A maximum of 9 semester hours from the Marine Science Consortium may be applied.

See Marine Science (55) for additional electives in Earth Science.

GEOLOGY:**Arts and Science Major for the B.S. degree**

Earth Science 51.101, 102, 111, 112, 361, 362, 365, 369, 370, 468, 493; Mathematics 53.171, 141, 123 or 53.125, 126, 171; Chemistry 52.102, 113; Physics 54.111, 112 or 54.211, 212.

GEOGRAPHY*COURSE DESCRIPTIONS*

(Code 41)

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 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. Students having taken 51.255 may not enroll in or receive credit for 41.125.

41.150 ELEMENTS OF PLANNING 3 sem. hrs.

Designed to acquaint students with the philosophy of planning, the roles of the planner, and planning problems.

41.213 POLITICAL GEOGRAPHY † 3 sem. hrs.

An analysis of physical, human, and economic factors which influence the changing pattern of the political map of the world.

41.221 ECONOMIC GEOGRAPHY † 3 sem. hrs.

Major economic activities; focus on significant characteristics, location theory and spatial patterns.

41.224 GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY † 3 sem. hrs.

Relationship between the historical movements and the natural environments in the United States.

41.253 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. Students having taken 51.365 may not enroll in or receive credit for 41.253.

41.254 ELEMENTS OF CARTOGRAPHY 3 sem. hrs.

Use, construction, and interpretation of maps, models, globes, charts, and geographic diagrams.

41.256 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 ENVIRONMENTAL CONSERVATION 3 sem. hrs.

Identifies resource management and environmental problems and offers possible alternative solutions for these problems.

41.310 POPULATION GEOGRAPHY † 3 sem. hrs.

A quantitative analysis of demographic data and qualitative examination of population characteristics.

41.321 GEOGRAPHY OF UNITED STATES AND CANADA † 3 sem. hrs.

A spatial analysis of the United States and Canada emphasizing such concepts as environmental perception and sequent occupance; salient problems within geographic regions are considered in terms of genesis and potential for solution.

41.333 GEOGRAPHY OF EUROPE † 3 sem. hrs.

Europe's physical characteristics, topography, transportation systems, resources, population, and trade.

41.343 GEOGRAPHY OF MONSOON ASIA † 3 sem. hrs.

Physical and Cultural Characteristics of South and East Asia (Pakistan through Japan).

41.344 GEOGRAPHY OF LATIN AMERICA † 3 sem. hrs.

Latin America as a major geographic region is examined in terms of those economic, racial, and cultural forms that have provided regional unity and diversity.

41.345 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 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.

41.347 GEOGRAPHY OF THE MIDDLE EAST † 3 sem. hrs.

Cultural and physical geography of the area including Turkey, through Afghanistan.

41.350 ADVANCED PLANNING 3 sem. hrs.

The development of the skills and techniques used in analyses, goal setting, plan preparation, and implementation of urban and regional planning processes and activities.

41.370 RURAL SETTLEMENT AND LAND USE 3 sem. hrs.

Investigates the major pattern of rural settlement and land use and the processes involved in explaining the changing American rural landscape.

41.404 THE GEOGRAPHY OF FOOD PRODUCTION 3 sem. hrs.

An in-depth examination of the characteristics of the major agricultural regions of the world and an attempt to explain how they came into being. Included also will be a description of the features of contemporary farming systems.

41.442 MAP SKILLS 3 sem. hrs.

The use of a variety of published maps for interpreting and interrelating past and present physical and cultural phenomena with a view, also, toward the future.

41.444 THE GEOGRAPHY OF INDUSTRIAL LOCATION 3 sem. hrs.

A comprehensive examination of the factors which influence the location of industries and the Industrial Location Theory will be made. Time will also be devoted to studying the manner by which selected industries have chosen their particular locations.

41.454 CARTOGRAPHY FOR URBAN-REGIONAL PLANNING 3 sem. hrs.

The use, construction, and interpretation of maps, charts, and diagrams for urban and regional land use planning.

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. 2 hours class and 2 hours laboratory/week.

41.463 URBAN GEOGRAPHY † 3 sem. hrs.

Designed to provide a conceptual and methodological framework in which to view the process of urbanization.

41.475 INDEPENDENT STUDY IN GEOGRAPHY 1-3 sem. hrs.

Independent, investigative research oriented to studies of specific geographical problems.

Prerequisite: for Junior and Senior Geography majors.

[see section 7.5]

41.497 INTERNSHIP IN URBAN/REGIONAL PLANNING 12 sem. hrs.

It involves the placement of a student who is enrolled in the course of study in Urban/Regional Planning into a planning office for one semester, during which time the student will be actively involved in the functions and activities of that planning office.

41.498 URBAN/REGIONAL DESIGN 3 sem. hrs.

To be taken in coordination with the internship in Urban/Regional Planning. The course provides an opportunity for reporting and analyzing experiences in internship. It also integrates and utilizes practice in the development of land use plans for urban/regional development.

EARTH SCIENCE AND GEOLOGY

COURSE DESCRIPTIONS

(Code 51)

51.100 FIELD APPLICATIONS OF EARTH SCIENCE 3 sem. hrs.

Open to Quest summer program students only. Is not applicable toward a degree in Earth Science, and will be given in the field as part of a Quest students' curriculum.

51.101 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. 3 hours class/week. (1-credit optional labs).

- 51.102 HISTORICAL GEOLOGY †** 3 sem. hrs.
 Earth history as interpreted from rock and fossil evidence, with emphasis on continuous evolution of the earth and life on it. 3 hours class/week. (1-credit optional labs).
- 51.105 ENVIRONMENTAL GEOLOGY †** 3 sem. hrs.
 Application of geologic principles to the environment. Emphasis is on earth processes influencing man, engineering properties of rocks and soils, and the environmental implication of earth resources.
- 51.111 PHYSICAL GEOLOGY LABORATORY** 1 sem. hr.
 An introduction to the practice of fundamental geology laboratory techniques, including qualitative and quantitative analysis. Includes discussion of the various geological topics to be studied in the laboratory. 2 hours laboratory/week. (It is recommended that it be taken concurrently with 51.101.)
- 51.112 HISTORICAL GEOLOGY LABORATORY** 1 sem. hr.
 Interpretation of earth history through the identification and evaluation of the rock and fossil record and through the interpretation of geologic maps. 2 laboratory hours/week.
- 51.253 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.
- 51.255 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. Students having taken 41.125 may not enroll in or receive credit for 51.255.
- 51.259 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. One weekend field trip is encouraged.
- 51.355 SYNOPTIC METEOROLOGY** 3 sem. hrs.
 Observation and analysis of data for understanding and predicting the complexities of the atmosphere.
Prerequisite: 51.255 or consent of instructor.
- 51.361 MINERALOGY** 4 sem. hrs.
 Origin, occurrence, and identifying characteristics of common minerals. Both megascopic and microscopic techniques are stressed. 3 hours class and 2 hours laboratory/week.
- 51.362 PETROLOGY** 4 sem. hrs.
 Megascopic and petrographic analysis and identification of rocks with emphasis on field occurrences and association. 3 hours class and 2 hours laboratory/week.
Prerequisite: 51.361.
- 51.365 GEOMORPHOLOGY** 4 sem. hrs.
 Geomorphic processes and land forms with particular emphasis on their relationship to underlying rock lithologies and structures. 3 hours class and 2 hours laboratory/week. Students having taken 41.253 may not enroll in or receive credit for 51.365.
- 51.369 STRUCTURAL GEOLOGY** 4 sem. hrs.
 An analysis of rock deformation based upon the principle of rock mechanics and the utilization of data from field investigations. 3 hours class and 2 hours laboratory/week.

- 51.370 HYDROLOGY** 3 sem. hrs.
A course designed to introduce students to the principles and techniques of hydrology. The course will stress the practical aspects of hydrology and include appreciable amounts of time in the field. 2 class hours and 2 hours laboratory/week.
- 51.451 FIELD TECHNIQUES IN EARTH SCIENCE** 6 sem. hrs.
Intensive field and laboratory training in the use of equipment and techniques in the areas of geology, hydrology, and cartography. Field trips are integral and vital segments of the course.
Prerequisite: 15 hours in Earth Science courses or consent of instructor.
- 51.453 PROGRAMMING AND OPERATION OF THE PLANETARIUM** 3 sem. hrs.
An intensive study in the methods of effective educational use of the planetarium as a teaching and motivational device as well as supervised training and practice in the operation, use, and maintenance of the planetarium equipment.
- 51.461 MINERAL RESOURCES** 3 sem. hrs.
A study of both metallic and nonmetallic mineral deposits. Emphasis on the origin of deposits, exploration and exploitation methods used, and environmental problems encountered.
Prerequisite: Mineralogy, 51.361 or consent of instructor.
- 51.468 STRATIGRAPHY AND SEDIMENTATION** 4 sem. hrs.
Processes and agents which erode, transport, and deposit sediments, and the geologic interpretation of the resulting rocks. 3 hours class and 2 hours laboratory/week.
- 51.475 INDEPENDENT STUDY 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. [see section 7.5]
- 51.493 BIBLIOGRAPHY AND RESEARCH** 3 sem. hrs.
Library and/or field research in geology.
Prerequisites: 51.361, 362, 468 or consent of instructor.
- 51.496 INTERNSHIP IN EARTH SCIENCE** 3-15 sem. hrs.
A work-study program available only to junior and senior Earth Science majors. Not applicable towards requirements of Earth Science major or minor programs.

MARINE SCIENCE CONSORTIUM

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 Lavere McClure, Director of the Marine Science Consortium.

COURSES CURRENTLY APPROVED (Code 55)

Note: For course descriptions and credit see announcements of Marine Science Consortium; courses marked † may be used for General Education.

- 55.110 INTRODUCTION TO OCEANOGRAPHY †
55.211 FIELD METHODS †

- 55.212 NAVIGATION
- 55.221 MARINE INVERTEBRATES †
- 55.241 MARINE BIOLOGY †
- 55.250 MANAGEMENT OF WETLAND WILDLIFE †
- 55.260 MARINE ECOLOGY †
- 55.270 SCUBA DIVING
- 55.280 FIELD BIOLOGY
- 55.331 CHEMICAL OCEANOGRAPHY
- 55.342 MARINE BOTANY
- 55.343 ICHTHYOLOGY
- 55.344 ANATOMY OF MARINE CHORDATES
- 55.345 ORNITHOLOGY
- 55.362 MARINE GEOLOGY
- 55.364 PHYSICAL OCEANOGRAPHY
- 55.398 DEVELOPMENTAL BIOLOGY OF MARINE ORGANISMS
- 55.420 MARINE MICROPALEONTOLOGY
- 55.431 ECOLOGY OF MARINE PLANKTON
- 55.458 EXPLORATION METHODS IN MARINE GEOLOGY
- 55.459 COASTAL GEOMORPHOLOGY
- 55.498/598 TOPICS IN MARINE SCIENCE
- 55.500 PROBLEMS IN MARINE SCIENCE
- 55.510 OCEANOGRAPHY I (In-Service Teachers)
- 55.511 OCEANOGRAPHY II (In-Service Teachers)
- 55.520 MARINE MICROBIOLOGY
- 55.530 COASTAL SEDIMENTATION
- 55.540 ENVIRONMENTAL SCIENCE EDUCATION
- 55.570 RESEARCH CRUISE—BIOLOGY, GEOLOGY, POLLUTION

HEALTH, PHYSICAL EDUCATION AND ATHLETICS

FACULTY:

Professors Jerry Medlock (Chairperson), Stephen M. Bresett; Associate Professors Joan M. Auten, Rodrick Clark Boler, Charles Chronister, Russell E. Houk, Joanne E. McComb, Eli W. McLaughlin, Ronald E. Puhl, Burton T. Reese, Roger Sanders, William J. Sproule, Henry C. Turberville, Jr.; Assistant Professors Mary Gardner, Susan Hibbs, Carl M. Hinkle, Betty Jane Rost; Instructor Janet Hutchinson.

The Department of Health, Physical Education and Athletics serves the student community by providing academic credit to fulfill the College's General Education Requirement. Credit is granted for participation in intercollegiate athletics and physical activities courses designed to be of life-long benefit to the individual.

There is no major degree program in Health, and Physical Education; an area of concentration is provided in Elementary Education.

COURSE DESCRIPTIONS

(Code 05)

Courses marked † are acceptable in fulfilling the four semester hours of Physical Education required in General Education.

05.101	VARSITY BASEBALL †	1 sem. hr.
05.102	VARSITY BASKETBALL †	1 sem. hr.
05.103	VARSITY FIELD HOCKEY †	1 sem. hr.
05.104	VARSITY FOOTBALL †	1 sem. hr.
05.105	VARSITY SOCCER †	1 sem. hr.
05.106	VARSITY SWIMMING AND DIVING †	1 sem. hr.
05.107	VARSITY TENNIS †	1 sem. hr.
05.108	VARSITY TRACK, FIELD, CROSS COUNTRY †	1 sem. hr.
05.109	VARSITY WRESTLING †	1 sem. hr.
05.110	VARSITY GOLF x	1 sem. hr.
05.111	VARSITY LACROSSE	1 sem. hr.

The above courses are opportunity for the more skilled individual to participate on the inter-collegiate level, and enhance the overall development of the person via the experiences encountered sociologically and psychologically. A student may receive no more than two (2) semester hours of the required General Education credit in any one varsity sport.

05.149	AQUATICS (For Non-Swimmers) †	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.		
05.150	AQUATICS (Beginning) †	1 sem. hr.
Same content as 05.149 but adapted to beginning skills.		
05.151	AQUATICS (Intermediate) †	1 sem. hr.
Preview of basic aquatic skills; advanced skills and swimming strokes with emphasis on form and efficiency; elementary rescue and aquatic games.		
05.155	SWIMNASTICS †	1 sem. hr.
05.160	HEALTH AND THE NATURE OF MAN	3 sem. hrs.
Specific health needs of college students and the world in which they will live.		
05.214	FENCING †	1 sem. hr.
05.219	TENNIS †	1 sem. hr.
05.222	CREATIVE DANCE †	1 sem. hr.
05.223	MODERN DANCE †	1 sem. hr.
05.224	FITNESS DANCE (1 credit) Approved 2/23/79	
To provide a method of cardiovascular endurance in a particular interest area. The course will partly fulfill the Physical Education requirement and will economically provide for a sizeable number of students with little cost.		
05.228	GYMNASTICS †	1 sem. hr.
05.230	WEIGHT TRAINING AND FITNESS †	1 sem. hr.
05.231	ARCHERY †	1 sem. hr.
05.232	BOWLING (fee required) †	1 sem. hr.
05.233	BADMINTON †	1 sem. hr.
05.234	GOLF (fee may be required) †	1 sem. hr.
05.235	RIFLERY †	1 sem. hr.
05.236	VOLLEYBALL †	1 sem. hr.
05.237	MODIFIED PHYSICAL EDUCATION † (for approved students only)	1 sem. hr.

- 05.238 RACQUETBALL—HANDBALL † 1 sem. hr.
- 05.239 SQUARE DANCE † 1 sem. hr.
- 05.240 SLIMNASTICS AND FITNESS † 1 sem. hr.
- 05.241 JUDO—SELF DEFENSE † 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.
- 05.243 BACKPACKING † 1 sem. hr.
- 05.244 ORIENTEERING † 1 sem. hr.
- 05.245 CANOEING † 1 sem. hr.
- 05.246 BEGINNING SKIN AND SCUBA DIVING 1 sem. hr.
- Quest summer semester
- 05.247 ROCK CLIMBING † 1 sem. hr.
- For the beginning rock climbing enthusiast with basic knowledge, skills, and practical application of it in actual rock climbing experiences. This will serve as a foundation for further experiences in this area of recreation.
- 05.248 BASIC SAILING † 1 sem. hr.
- 05.249 SYNCHRONIZED SWIMMING † 1 sem. hr.
- Designed to give students a basic background in the fundamental skills, strokes and movement progressions involved in developing a basic routine.
- 05.250 ADVANCED LIFE SAVING † 2 sem. hrs.
- Opportunity to attain American Red Cross Advanced Life Saving Certificate.
- 05.251 TECHNIQUES OF COACHING AND
OFFICIATING BASEBALL 3 sem. hrs.
- 05.252 TECHNIQUES OF COACHING AND
OFFICIATING BASKETBALL 3 sem. hrs.
- 05.253 TECHNIQUES OF COACHING AND
OFFICIATING FOOTBALL 3 sem. hrs.
- Advanced instruction and practice in offensive and defensive fundamentals for each position; organizational methods and coaching principles and officiating skills.
- 05.256 TECHNIQUES OF COACHING AND OFFICIATING
CROSS COUNTRY, TRACK AND FIELD 3 sem. hrs.
- 05.254 TECHNIQUE OF COACHING AND
OFFICIATING FIELD HOCKEY 3 sem. hrs.
- 05.257 TECHNIQUES OF COACHING AND
OFFICATING WRESTLING 3 sem. hrs.
- 05.260 TECHNIQUES OF COACHING AND
OFFICIATING SWIMMING 3 sem. hrs.
- Techniques of coaching, swimming, diving and rule interpretations and duties of official.

- 05.270 EXERCISE AND YOU (3 contact hrs.)** † 2 sem. hrs.
The academic coverage involves study of appropriate physiological functions, exercise physiology, mechanical implications, fitness measurement, procedures, and practical application through programmed exercise.
- 05.271 INTERMEDIATE ARCHERY** † 1 sem. hr.
To provide the opportunity for the student to develop shooting skills to the best of his own ability.
- 05.272 INTERMEDIATE BOWLING (fee required)** † 1 sem. hr.
This course is intended to develop advanced skill and knowledge of bowling.
- 05.273 INTERMEDIATE GOLF (fee may be required)** † 1 sem. hr.
Instruction in the techniques and strategy involved in improving the individual skills of the student.
- 05.274 INTERMEDIATE TENNIS** † 1 sem. hr.
To improve the tennis skills of each individual.
- 05.275 INTERMEDIATE VOLLEYBALL** † 1 sem. hr.
This intermediate level course is mostly participation and will include the development and history of volleyball along with the improvement of fundamental skills, team play, and strategy.
- 05.276 INTERMEDIATE JUDO (1 credit) Approved 2/23/79**
Intended for those students who wish to continue study in the area, and will provide an opportunity to develop higher levels of skill competencies. The course will partially fulfill the Physical Education requirements.
- 05.311 METHODS AND MATERIALS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION** 3 sem. hrs.
Provides principles and procedures to meet the needs and interests of elementary age children in the area of physical education.
- 05.320 HEALTH AND SAFETY IN THE ELEMENTARY SCHOOL** 3 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 SAFETY** 3 sem. hrs.
Designed for the person who needs training in first aid and safety Red Cross Standard, Advanced, and Cardiopulmonary Resuscitation certification may be obtained.
- 05.331 RECREATIONAL EDUCATION** 3 sem. hrs.
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 practices in the basic skills required of individuals involved in camping and outdoor education training. Field experiences.
- 05.350 WATER SAFETY INSTRUCTOR** † 2 sem. hrs.
Review of the nine basic swimming strokes and advanced life saving skills with an opportunity to analyze stroke mechanics, teaching methods and provisions, or the necessary

knowledge required for satisfactory completion. Awarding of an American Red Cross Water Safety Instructor Certificate is based on final evaluation.

Prerequisite: A valid American Red Cross Advanced Life Saving Certificate, 17 years of age prior to starting date of course, sound physical condition, and a Red Cross Swimmer's Certificate or the ability to perform the swimmer course skills.

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.

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

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

05.430 CURRENT ISSUES IN HEALTH EDUCATION 3 sem. hrs.

Major problems which concern communities today: drugs, venereal disease, pollution, alcohol, and sexuality. Restricted to seniors and in-service teachers.

HISTORY

FACULTY:

Professors Robert D. Warren (Chairperson), Hans K. Gunther, Craig A. Newton, H. Benjamin Powell, James R. Sperry; Associate Professors Richard G. Anderson, John C. Dietrich, Arthur Lysiak, Theodore Shanoski, Ralph Smiley, Anthony J. Sylvester, George A. Turner, James R. Whitmer, John B. Williman.

HISTORY:

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

History 42.398; 27 semester hours elective in courses in history including at least 15 semester hours numbered above 300.

HISTORY SATELLITE PROGRAM

The history satellite course program is an innovative approach to provide greater flexibility in the history curriculum, to offer students more choice and better scheduling opportunities to enroll in history courses. Under the proposal a designated three semester credit history course can be offered at a reduced credit value or for an increased one semester credit value equivalent to class time and course content. Two approaches, "satellite segment course: and "Satellite derivation course," are available for a student to take a fraction or an extension of an existing three credit semester course. The "satellite segment course" permits a student to enroll in a reduced portion of a designated course for either one or two credits. The "satellite derivation course: allows a student to enroll in a specially designed one semester credit course, for an enrichment or concentrated study of a significant topic or theme from the content of the three semester credit course. Check the undergraduate schedule of courses for specific satellite offerings each semester.

COURSE DESCRIPTIONS

(Code 42)

Courses marked † may be used toward General Education.

Prerequisites are subject to modification by the instructor.

42.100 TRANS-ATLANTIC WORLD IN THE 20TH CENTURY † 3 sem. hrs.

Thematic and interdisciplinary approaches to the examination of the trans-Atlantic World. Consideration is given to the social, political, economic and intellectual develop-

ments. Paramount emphasis is placed on the inter-connectedness of the twentieth century experiences of the United States and countries of Western Europe.

- 42.112 ORIGINS OF THE MODERN WORLD †** 3 sem. hrs.
Political, economic, social, and intellectual forces that shaped the story of mankind from the early Renaissance to the nineteenth century.
- 42.113 THE MODERN WORLD †** 3 sem. hrs.
Political, economic, social, intellectual, and technological elements of nineteenth and twentieth century history, showing the progress of the Western tradition and the growing importance of the non-Western world.
- 42.121 UNITED STATES HISTORY SURVEY:
COLONIAL PERIOD OF 1877 †** 3 sem. hrs.
A chronological history to 1877 with emphasis on the evolution of political, economic, social and cultural aspects.
- 42.122 UNITED STATES HISTORY SURVEY:
1877 TO THE PRESENT †** 3 sem. hrs.
Political, social, intellectual and economic developments of the United States from Reconstruction to the present.
- 42.133 THE ANCIENT AND MEDIEVAL WORLDS †** 3 sem. hrs.
A survey course from the Ancient Near East to the fall of the Roman Empire in the West, emphasizing Greece, Rome, and the rise of Christianity; a study of the people and countries of the West which emerged following the fall of the Roman Empire, with an emphasis on feudalism, manorialism and the medieval church.
- 42.208 CONTEMPORARY ISSUES IN UNITED STATES HISTORY †** 3 sem. hrs.
An examination of important social, political, and foreign affairs issues within a historical framework which have current significance and are of concern in American society.
- 42.223 ECONOMIC HISTORY OF THE UNITED STATES †** 3 sem. hrs.
To understand the changing nature of the American economy, this course covers three time periods: the commercial-agricultural age, the industrial age, and the modern managerial age. Agriculture, banking, business administration, commerce, labor, manufacturing, mining and transportation; social and political factors that contributed to changing economic relationships in the United States.
- 42.224 THE IMMIGRANT EXPERIENCE †** 3 sem. hrs.
Surveys immigration to the United States from the colonial to present time, tracing the experience from conditions in native lands, through the transit to America, to settlement and attending problems during the earlier years in the new country. Occasional case studies illustrate the experience; the sociohistorical framework of assimilation is used to sum up separate eras of immigration.
- 42.225 AFRO-AMERICAN HISTORY †** 3 sem. hrs.
A historical examination of the black African heritage, travail of slavery, release from bondage, accommodation and protest, racial violence, black nationalism, civil rights struggle, and significance and influence in United States history.
- 42.227 THE AMERICAN WOMAN:
ACCOMPLISHMENTS AND ASPIRATIONS †** 3 sem. hrs.
Identification of the status, roles and achievements of American women from the colonial period to the present. Historical events or trends which elevated or diminished women's place in American society. The attitude of men towards women and their roles so that the advancement of the latter will be perceived to result from the interaction of sexes which produced the major turning points of the "woman question" in American History.

42.229 MODERN WORLD LEADERS †

3 sem. hrs.

A study of significant world leaders in religion, politics, war and culture and their impact upon world history. Course will focus on different leaders each time offered and will cover a selected period from the Renaissance to the present. Course will begin analysis of the conditions which helped produce these leaders and will end by discussing reasons for their success or failure. Only leaders who have made a significant contribution outside their national boundaries will be considered for inclusion in the course.

42.235 EMERGENCE OF SOCIAL WELFARE:**WESTERN EUROPE AND THE UNITED STATES TO 1935**

3 sem. hrs.

A descriptive analysis of pauperism and other forms of indigency concentrating on the nineteenth and twentieth centuries to 1935, comparing and contrasting attitudes and practices and delineating European influences on the United States.

42.246 MODERN EUROPEAN THOUGHT AND SOCIETY †

3 sem. hrs.

Changes in currents of thought during the period are related to political, economic, and social developments. Special attention given to interpretations of major intellectual movements.

**42.255 HEALTH PROFESSIONALS AND
HEALTH ISSUES IN HISTORY †**

3 sem. hrs.

A survey of the evolution of medicine, nursing, and other health professions within the cultural, social, political, religious, intellectual, and economic contexts of Western civilization. Although attention will be channeled to the delineation of scientific and technological advances, primary focus will be upon the connections between the health sciences and broad historical motifs. The historic scope of the course is from antiquity to the present; the most detailed treatments of subject matter, however, will involve the nineteenth and twentieth centuries.

42.260 SPORT AND SOCIETY IN AMERICA †

3 sem. hrs.

A cultural approach to organized sport in the U.S. which proceeds from the premise that sport mirrors the values, states of technology and the conditions of society. Emphasis is on the rise of sport as a positive reflective social value, its evolution toward serving as a crucial outlet in mass culture, the impact of business, commercialism, leisure, affluence, urbanism and nationalism, and the problems of governance and law.

42.275 HISTORY OF CHRISTIANITY TO 1500 (I) †

3 sem. hrs.

A survey course pursuing the major features of Christianity to the eve of the Reformation. Emphasis on institutional and doctrinal developments, focusing mainly on Western European Christianity. Special concentration on some of the great figures in Christian history, including those of the Medieval Papacy. The course will close with the Pre-Reformers and the Renaissance Papacy at 1500.

42.276 HISTORY OF CHRISTIANITY SINCE 1500 (II) †

3 sem. hrs.

A survey course, beginning with the Protestant and Catholic Reformation, and covering the major movements in Western Christianity to the present. American Christianity is briefly overviewed for some of its major features and movements. The latter part of the course will examine some of the highlights of the religious developments of the 19th and 20th Centuries, closing with the Ecumenical movement and some of the distinctive events of the most recent quarter of the 20th Century.

42.281 MILITARY HISTORY I †

3 sem. hrs.

A study of organized warfare from its origins to the last campaign of Napoleon I. While concentrating on strategy and tactics, the course also will examine moral and social problems raised by warfare.

- 42.282 MILITARY HISTORY II +** 3 sem. hrs.
A study of organized warfare and the theory of war from the Napoleonic age to the present. Concentrating on strategy and tactics, this course still examines the socio-political background, especially of the two world wars and the age of the guerilla.
- 42.318 EARLY ENGLAND: THE MAKING OF AN ISLAND STATE +** 3 sem. hrs.
Political, economic, social, and cultural life in England to the Glorious Revolution.
- 42.319 MODERN ENGLAND: THE FIRST INDUSTRIAL EMPIRE +** 3 sem. hrs.
Political, social, economic, and cultural developments in England from the Glorious Revolution to the present with emphasis upon the development of democracy, the Industrial Revolution and the growth and decline of the British Empire.
- 42.323 EUROPEAN IMPERIALISM: THE ENCOUNTER OF RACES AND SOCIETIES** 3 sem. hrs.
A general basic study of the commingling of the races of mankind, and of modern with traditional societies; in the course of European overseas expansion, with the creation of a global economy, global politics, and the problem of the underdeveloped world.
- 42.324 REVOLUTIONARY EUROPE AND THE RISE OF MODERN TRADITIONS, 1600-1789** 3 sem. hrs.
Rise of the modern state; political, intellectual, social, economic, and cultural aspects of the eras of the Scientific Revolution and Enlightenment; the establishment of European world hegemony and a world economy; diplomatic and military interaction of the European states.
- 42.326 EUROPE 1789-1914** 3 sem. hrs.
Political and military events within their economic, social, intellectual, religious, and artistic setting from the French Revolution through the Industrial Revolution and the Unification of Italy and Germany to the diplomatic crises that led to the First World War.
- 42.335 COMMUNIST EASTERN EUROPE** 3 sem. hrs.
An introductory look at the European world beyond the Iron Curtain: its ethno-linguistic patterns as the original home of a number of American immigrant peoples; its experience as a laboratory of applied Communist theory since 1945.
- 42.347 HISTORY OF THE HOLOCAUST** 3 sem. hrs.
After briefly tracing the history of antisemitism and evaluating scope of prejudice, discrimination and genocide in contemporary civilization this course will focus upon its major theme — the genesis and implementation of the planned destruction of European Jewry from 1933 to 1945. The course will include with an analysis of the literature of the Holocaust and an evaluation of the impact of the Holocaust upon modern day Israel and the world Jewish community.
- 42.351 LATIN AMERICA: THE COLONIAL PERIOD +** 3 sem. hrs.
The extension of Iberian institutions to the New World and the acculturation process. Examination and evaluation of the economic, social and religious institutions of Portuguese and Spanish America in the colonial period, 1492-1823.
- 42.352 LATIN AMERICA: THE NATIONAL PERIOD +** 3 sem. hrs.
After a brief summary of the course and results of the revolutionary era, attention is devoted to the economic, social, and political development of individual nations.
- 42.354 THE RISE OF MODERN CHINA TO MAO TSE-TUNG** 3 sem. hrs.
A history of China from the coming of the West to the present. The main thread of the course is an analysis of China's strategy for survival under the impact of foreign ideologies and economics. Special attention will be paid to the rise of power of Mao Tse-Tung and his policies.

- 42.356 RUSSIA TO THE BOLSHEVIK REVOLUTION** 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.
- 42.358 BLACK AFRICA** 3 sem. hrs.
Survey of the transformation of the societies of Sub-Sahara Africa from colonialism to national independence.
- 42.362 THE ARAB WORLD** 3 sem. hrs.
An introductory look at the Middle East, Islamic society and religion, the Arab-Israeli problem, and the politics of oil.
- 42.372 COLONIAL AMERICA AND THE WAR OF INDEPENDENCE** 3 sem. hrs.
European colonization in North America, with major attention to the establishment and development of England's thirteen colonies, an emerging American society, and the problems which created the conflict between the Americans and the British Empire resulting in the American War of Independence.
- 42.373 THE UNITED STATES FROM NATIONHOOD TO CIVIL WAR** 3 sem. hrs.
A study of forces contributing to nation building, democratization and reform in society; factors stimulating expansion; issues causing dis-union; and travail of the Civil War.
- 42.375 THE UNITED STATES FROM THE CIVIL WAR TO WORLD POWER** 3 sem. hrs.
Major topics such as the Civil War, Reconstruction, the Gilded Age, Emergence of Big Business, Social Darwinism, Populism, Progressivism and World War I are selected for discussion.
- 42.377 CONTEMPORARY UNITED STATES, WORLD WAR I TO THE PRESENT** 3 sem. hrs.
Major themes such as Republican ascendancy. FDR and the New Deal, the Cold War, minority rights, violence in contemporary America, militarism, and the role of the individual in today's society are selected for discussion.
- 42.388 PENNSYLVANIA †** 3 sem. hrs.
Major contributions of Pennsylvania to national life; relations between state and national movements.
- 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.
- 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.
- 42.397 INDEPENDENT STUDY IN HISTORY** 1-4 sem. hrs.
The topic selected must be approved by a committee appointed by the chairperson. Independent reading and/or research related to some aspect of history is supervised by an appropriate member of the department. A student may register for this course no more than twice and for a total which does not exceed four semester hours.
Prerequisite: 60 semester hours college credit.

[see section 7.5]

- 42.398 RESEARCH AND WRITING SKILLS** 3 sem. hrs.
Basic historical bibliography with exercises in location and use; analysis of problems and tools of research and a practical application of research methods.
- 42.401 CURRENT EVENTS IN HISTORICAL PERSPECTIVE** 3 sem. hrs.
Selected topics from the headlines of the current year with their historical background and significance. Designed to fit the present world into a larger perspective and to develop a better understanding of historical forces at work.
Prerequisite: 3 sem. hrs. of history.
- 42.402 CURRENT EVENTS IN HISTORICAL PERSPECTIVE** 3 sem. hrs.
Continuation of 42.401. Students may take a total of 6 credits in the subject: Three (3) credits in addition to 42.401 of the same title.
- 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: 42.113.
- 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: 42.113.
- 42.452 SOVIET RUSSIA** 3 sem. hrs.
Critical analysis of the political, social, economic, and cultural evolution of the Soviet Union, and a study of Soviet foreign policy and international relations.
Prerequisite: 42.113.
- 42.453 PROBLEMS OF CONTEMPORARY LATIN AMERICA** 3 sem. hrs.
Analysis of recent events or movements that may indicate recurrence of historical problems or major developments of international significance in selected countries of Latin America.
Prerequisite: 3 sem. hrs. of history.
- 42.454 MODERN JAPAN: THE EMERGENCE OF AN ASIAN SUPERPOWER** 3 sem. hrs.
An analysis of Japan's changing social, political, and economic strategies from the Meiji Restoration to the present, with a concise description of Japanese culture during the period.
Prerequisite: 42.113.
- 42.456 TWENTIETH CENTURY MIDDLE EAST AND NORTH AFRICA** 3 sem. hrs.
Intensive study of critical social, political and economic problems of the contemporary peoples and nations in these regions.
Prerequisite: 42.112 or 42.113.
- 42.471 THE GROWTH OF BUSINESS IN AMERICA** 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: 3 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: 3 sem. hrs. of history.

42.483 POPULAR CULTURE IN AMERICA 3 sem. hrs.

Thematic description and analysis of major forms of popular culture in America from Colonial times to the present. Subjects include literature, the arts, drama, decoration, and recreation.

Prerequisite: 3 sem. hrs. of history.

INTERDISCIPLINARY STUDIES

G. Alfred Forsyth, Coordinator of Inter-disciplinary Studies.

Note: Inter-disciplinary courses listed in this section are planned, and often staffed, by members of more than one department. The Coordinator of Inter-disciplinary Programs bears administrative responsibility for their scheduling.

COURSE DESCRIPTIONS

(Code 09)

Course designated † may be used towards General Education

09.111 INTRODUCTION TO THE PEOPLES OF THE THIRD WORLD † 3 sem. hrs.

The peoples of the Far and Middle East, Africa, and Latin America, their art, literature, philosophy, cultural geography, and history, sketching their importance in the world.

09.211 HISTORY OF NATURAL SCIENTIFIC THOUGHT † 3 sem. hrs.

Historical development of the natural sciences and mathematics; the nature of scientific and mathematical thought and methods; the characteristics of these disciplines and their significance to human progress.

09.213 SCIENCE, TECHNOLOGY, AND HUMAN VALUES † 3 sem. hrs.

The interaction of science and technology with human values. Study of representative past, present, and future technological developments and their impact on personal and social values.

09.250 FRENCH HISTORY AND CULTURE I † 3 sem. hrs.

From the Gallo-Roman beginnings to the present; emphasis upon the social, cultural, economic, and political contributions of France to the shaping of Western Civilization.

09.251 FRENCH HISTORY AND CULTURE II † 3 sem. hrs.

Transformation of France from the Old Regime into a modern nation; the interaction between social, cultural, economic, and political life in France and her importance in Western Civilization.

09.311 SEMINAR IN AMERICAN STUDIES, PART I 3 sem. hrs.

To be required of all majors in proposed baccalaureate program in American Studies, but open to all juniors in Arts and Sciences College. Designed to give the student a thorough appreciation of our variegated heritage and research materials and resources available for deepening the knowledge of this growing area of inquiry.

09.312 SEMINAR IN AMERICAN STUDIES, PART II**3 sem. hrs.**

To be required of all junior level majors in the baccalaureate program in American Studies. Continues the endeavor to convey a thorough appreciation of the variegated American heritage and the research materials and resources available for deepening the knowledge of this growing area of inquiry.

09.401 HISTORY AND POLITICS OF USSR**3 sem. hrs.**

Combines the study of the history of the USSR with the approaches of political science. Primarily offered in the summer. Will involve students in a tour of areas of the USSR.

09.421 SENIOR SEMINAR IN AMERICAN STUDIES**3 sem. hrs.**

To be required of all American Studies majors but open to all juniors in the School of Arts and Sciences, team-taught by members of at least two departments with on-site inspections wherever possible. Independent research among the materials available in this growing field of inquiry will be required, culminating in an oral or written report. Organization will result from a problems-approach, and material will be contemporary in perspective.

09.431 SOCIALISM: THEORY AND HISTORY**3 sem. hrs.**

Historical and theoretical study of the socialist idea and its various attempted realizations from biblical times to the present.

MATHEMATICS

FACULTY:

Professors Harold J. Bailey, Stephen D. Beck (Chairperson), Charles M. Brennan, JoAnne S. Growney, Paul G. Hartung, June L. Trudnak; Associate Professors Leroy H. Brown, Paul C. Cochrane, James E. Kerlin, Jr., Robert L. Klinedinst, Joseph E. Mueller, Ronald W. Novak, Clinton J. Oxenrider, James C. Pomfret; Assistant Professor Thomas L. Ohl.

MATHEMATICS:

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

Mathematics 53.125, 126; 171 or 172; 211, 225, 226, 241; 15 semester hours elected from 53.231, 271, 312, 314, 322, 331, 341, 371, 373, 381, 411, 421, 422, 451, 461, 471, 472, 491, 492; six to eight semester hours in a discipline to which mathematics is applied, as approved by the advisor.

COURSE DESCRIPTIONS

(Code 53)

Note: Courses marked + may be applied toward General Education. Requirements for the major for the B.S. in Education degree are given in Section 8.02.1.

53.101 FUNDAMENTALS OF MATHEMATICS +**3 sem. hrs.**

An informal investigation of a collection of mathematical concepts designed to promote inductive reasoning and illustrate the role of mathematics in our society. Suitable for humanities majors.

53.110 BASIC ALGEBRA**3 sem. hrs.**

A study of fundamental algebraic methods for students whose previous mathematical background is weak. Elementary algebraic relationships, functions, and solution of equations. Emphasis on developing skills.

Permission of Mathematics Department Chairperson is required.

- 53.111 FINITE MATHEMATICS +** 3 sem. hrs.
An introductory development of logic and sets provides 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.
- 53.113 PRE-CALCULUS +** 3 sem. hrs.
Elementary algebraic functions and relations; exponential and logarithmic functions; circular functions and inverse functions.
- 53.114 COLLEGE ALGEBRA FOR BUSINESS APPLICATIONS +** 3 sem. hrs.
Development of fundamental mathematical concepts and the computational skills necessary to use these concepts in the modern world of business and elsewhere.
Prerequisite: 1½ years of high school algebra or 53.110 or the equivalent.
- 53.118 APPLIED MATRIX ALGEBRA +** 3 sem. hrs.
Introduction to vectors, matrices, linear equations, and linear programming with applications to the social and biological sciences and business.
- 53.123 ESSENTIALS OF CALCULUS +** 3 sem. hrs.
Basic computational concepts of elementary calculus, differentiation and integration as used in non-physical science applications. Less rigorous than 125-126. An adequate background in algebra is needed and some trigonometry would be helpful.
- 53.125 ANALYSIS I +** 3 sem. hrs.
Differentiation and integration of functions of a single real variable including algebraic and transcendental functions.
- 53.126 ANALYSIS II +** 3 sem. hrs.
Techniques of integration, infinite series, Taylor's Theorem, differential equations, and an introduction to partial derivatives.
Prerequisite: 53.125.
- 53.141 INTRODUCTORY STATISTICS +** 3 sem. hrs.
Reading, interpreting and constructing tables of statistical data; statistical measure; application of basic skills of statistics.
- 53.171 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.
- 53.172 INTRODUCTION TO BASIC COMPUTER PROGRAMMING +** 1 sem. hr.
Interactive computer programming using the Basic language. Communication with the computer via remote terminals.
- 53.173 COMPUTERS AND SOCIETY +** 1 sem. hr.
A survey of the history, applications, and implications of computers. A non-technical overview for students in all disciplines.
- 53.201 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, Special Education, or Communication Disorders majors only. Sophomore standing required.

- 53.202 GEOMETRY FOR ELEMENTARY TEACHERS** [†] 3 sem. hrs.
 Informal geometry, including area and volume. A non-rigorous examination of groups, rings, and fields.
Prerequisite: 53.201.
- 53.203 FIELD WORK IN MATHEMATICS** [†] 3 sem. hrs.
 Instruments used in the field are the slide rule, angle mirror, clinometer, plane table, transit. (Summer only.)
- 53.204 MEASUREMENT AND METRIC SYSTEM FOR TEACHERS** [†] 1 sem. hr.
 The metric system and techniques of teaching it. Preparation of the student for a metric society. Group and individual pedagogy.
- 53.211 INTRODUCTION TO MODERN ALGEBRA** 3 sem. hrs.
 An introduction to the language and methods of abstract mathematics. Subjects discussed include sets, relations, functions, groups, rings and fields.
Prerequisite: 53.125.
- 53.225 ANALYSIS III** 3 sem. hrs.
 Vector analysis in R^2 and R^3 with extension to R_n ; systems or linear equations, matrix algebra, linear transformations, and Euclidean Space.
Prerequisite: 53.126.
- 53.226 ANALYSIS IV** 3 sem. hrs.
 Curves and parametric equations, surfaces, Taylor's Theorem, functions from R_m to R_n and multiple integrals.
Prerequisite: 53.225.
- 53.231 COLLEGE GEOMETRY** [†] 3 sem. hrs.
 Elementary geometry from an advanced standpoint. Incidence in the plane and space, congruence, inequality and similarity concepts. Properties of polygons, circles and spheres.
- 53.241 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. Primarily for mathematics majors.
- 53.271 ALGORITHMIC PROCESSES FOR COMPUTERS** [†] 3 sem. hrs.
 Properties of algorithms; languages used in described algorithms; application of a procedure-oriented language (Fortran) to problem-solving.
Prerequisite: 53.171, 53.172, or 92.252.
- 53.311 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. (Spring only.)
Prerequisite: Ed. 65.352 or permission of instructor.
- 53.314 LINEAR ALGEBRA** 3 sem. hrs.
 Study of abstract vector spaces, linear transformations, matrices, determinants, inner product spaces, spectral theory, and related topics. (Alternate years; next offered Fall 1982.)
Prerequisite: 53.225.
- 53.322 DIFFERENTIAL EQUATIONS** 3 sem. hrs.
 Study of elementary ordinary differential equations; infinite series and power series, and La Place transforms. (Spring only.)
Prerequisite: 53.225.

- 53.331 MODERN GEOMETRY** 3 sem. hrs.
Non-Euclidean geometries and their development from postulate systems and a formal approach to projective geometry. (Alternate years. Next offered Spring, 1982.)
- 53.341 ADVANCED STATISTICS** 3 sem. hrs.
Emphasis on continuous probability spaces, statistical distributions, and applications of statistics. (Alternate years. Next offered Fall, 1981.)
Prerequisite: 53.241 and 53.126.
- 53.371 COMPUTER ORGANIZATION** 3 sem. hrs.
Computer components and their organization; compiler and assembly systems; input/output; subroutines and macros. (Alternate years. Next offered Fall, 1982.)
- 53.372 COMPUTER APPLICATIONS IN SECONDARY SCHOOL MATHEMATICS** 3 sem. hrs.
Techniques for incorporating computers in the mathematics curriculum in secondary schools. Preparation and use of computer-assisted instruction, using the Basic and Fortran languages. (Alternate years. Next offered Fall, 1981.)
Prerequisite: 53.271 and permission of the instructor.
- 53.373 NUMERICAL METHODS IN COMPUTING †** 3 sem. hrs.
Study of various algorithms for the solution of nonlinear equations; the solution of simultaneous equations; interpolation of data; numerical integration; graph theory; and linear programming. The student will execute most of the algorithms using the computer. (Fall only.)
Prerequisite: 53.271 and 53.123 or 53.125.
- 53.381 INTRODUCTION TO OPERATIONS RESEARCH †** 3 sem. hrs.
A survey of the methods and models used in applying mathematics to problems of Business. Topics to be drawn from decision making, linear and dynamic programming, networks, inventory models, Markov processes, and queuing theory. (Alternate years. Next offered Spring, 1981.)
Prerequisite: 53.225 and 53.271 or 53.118 and 53.123.
- 53.411 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. (Alternate years. Next offered Fall, 1982.)
Prerequisite: 53.211.
- 53.421 ADVANCED CALCULUS** 3 sem. hrs.
A rigorous treatment of the concepts of limit, continuity, derivative, and integral for functions of a single real variable. (Fall only.)
Prerequisite: 53.221 or 53.226.
- 53.422 COMPLEX VARIABLES** 3 sem. hrs.
Presentation of theory through the differential and integral calculus of analytic functions, residues, and conformal transformations, with applications. (Alternate years. Next offered Spring, 1982.)
Prerequisite: 53.221 or 53.226.
- 53.451 INTRODUCTION TO TOPOLOGY** 3 sem. hrs.
Fundamentals of general topology; elementary set theory, topological spaces, mappings, connectedness, compactness, completeness, product and metric spaces, nets and convergence. (Alternate years. Next offered Spring, 1981.)
Prerequisite: 53.225.

- 53.461 NUMBER THEORY** 3 sem. hrs.
 Theory of numbers. Topics included are Euclidean algorithm, congruences, continued fractions, Gaussian integers, and Diophantine equations. (Alternate years. Next offered Fall, 1982.)
Prerequisite: 53.211.
- 53.471 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. (Alternate years. Next offered Spring, 1981.)
Prerequisite: 53.271, 53.322, 373.
- 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. (Alternate years. Next offered Spring, 1982.)
Prerequisite: 53.271 and (53.118 or 53.225) and (53.123 or 53.125.)
- 53.491 SPECIAL TOPICS IN MATHEMATICS** 3 sem. hrs.
 Presentation of an area of mathematics which is not available as a regular course offering.
Prerequisite: Permission of the instructor.
- 53.492 INDEPENDENT STUDY IN MATHEMATICS** 1-3 sem. hrs.
 A directed study of a particular area of mathematics as mutually agreed upon by the student and his instructor. The emphasis is on individual scholarly activity of the highly motivated student. [see section 7.5]

MUSIC

FACULTY:

Professors William K. Decker, Richard J. Stanislaw (Chairperson); Associate Professors John H. Couch, Sylvia H. Cronin, John P. Master, Nelson A. Miller, Stephen Wallace.

The Department of Music serves the entire college community through its music organizations, its opportunity for private lessons, concerts by the ensembles, recitals by students and faculty members, and through courses which may be taken in partial fulfillment of the Group I requirement in General Education.

Credit may be earned in seven ensembles, Maroon and Gold Band, Concert Choir, Womens Choral Ensemble, College-Community Orchestra, Husky Singers, Studio Band, and Madrigal Singers. Enrollment in the ensembles is open upon selection after audition. The Ensembles are described as courses 35.111-35.117. A student may receive no more than six credits in music ensembles toward a baccalaureate degree.

Private lessons in organ, piano, strings, woodwinds, brasses, and voice are available to qualified students. As many as eight semester hours may be earned through private lessons in one of these instruments in as many consecutive semesters. The number of students accepted for private lessons is limited by available faculty, and continuation is reserved for those who exhibit continued development. Private lessons are described as courses 35.141-35.198.

MUSIC:

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

- 35.102, 131, 132, 223, 231, 232, 331, 332;
 eight semesters (four semester hours) of ensemble;
 one of the following two options:

Music History and Literature option — 12 semester hours from 35.221, 222, 323, 324, 326, 421; 8 semester hours in piano or in another instrument if piano competency is met.

Applied Music option — 3 semester hours in music history;
16 semester hours in one instrument;
one semester hour performance seminar.

COURSE DESCRIPTIONS
(Code 35)

Courses marked † may be applied toward the General Education requirement.

Courses marked * are offered in alternate years or upon demand.

- 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.
Same subject matter as 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. Not to be scheduled in addition to 35.101.
- 35.111 MAROON AND GOLD BAND †** 1 sem. hr.
Music of varied styles and periods. Four hours/week for two semesters of one academic year is required for one semester hour.
- 35.112 CONCERT CHOIR †** 1 sem. hr.
Music of varied styles and periods, stressing oratorio and a cappella literature. Four hours/week for two semesters for one semester hour.
- 35.113 WOMEN'S CHORAL ENSEMBLE †** 1 sem. hr.
Popular to masterworks. Three hours/week for two semesters for one semester hour.
- 35.114 COLLEGE-COMMUNITY ORCHESTRA †** 1 sem. hr.
Music appropriate to the symphony orchestra. Two hours/week.
- 35.115 STUDIO BAND †** 1 sem. hr.
Jazz, swing, and other forms representing the dance band style. Two hours/week.
- 35.116 HUSKY SINGERS †** 1 sem. hr.
Popular to masterworks. Two hours/week.
- 35.117 MADRIGAL SINGERS †** 1 sem. hr.
Open to singers from other college vocal ensembles who pass the director's audition. Music chiefly from the Renaissance, but other styles and periods included. Two hours/week.
- 35.130 FUNDAMENTAL MUSICIANSHIP** 3 sem. hrs.
Personal musical development: elementary theory, music reading, singing, playing simple instruments, simple chordings, transpositions, and bodily movement to music. Suggested for elementary and special education majors with little musical background as preparation for 35.311 or 35.131.
- 35.131 THEORY I †** 3 sem. hrs.
Harmony, including tonic, subdominant, and dominant chords. Sight-singing and keyboard harmonizations. Four hours/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/week.
Prerequisite: 35.131.
- 35.141-148 STRINGS I-VII** † 1 sem. hr. each course
Private lessons for students with demonstrated ability or potential.
- 35.151-158 ORGAN I-VII** † 1 sem. hr. each course
Private lessons for those who have previously studied organ or who have strong piano backgrounds.
- 35.161-168 BRASS I-VIII** † 1 sem. hr. each course
Private lessons in a brass instrument in which the student has demonstrated ability.
- 35.171-177 VOICE I-VII** † 1 sem. hr. each course
Private lessons for student with demonstrated vocal ability.
- 35.181-188 PIANO I-VIII** † 1 sem. hr. each course
Private lessons for students who have had previous piano study.
- 35.191-198 WOODWINDS I-VIII** † 1 sem. hr. each course
Private lessons in an instrument in which the student has demonstrated ability.
- 35.208 SPECIAL TOPICS IN MUSIC PERFORMANCE** † 3 sem. hrs.
A unique experience in performing or the study of performance practice. Instructor offering this course develops a one-time-only study. Information is available from the Department of Music.
- 35.209 SPECIAL TOPICS IN MUSIC APPRECIATION** † 3 sem. hrs.
A unique study of music offering currently available topics. Instructor offering this course develops a one-time-only prospectus. Information is available from the Department of Music.
- 35.221 MEDIEVAL AND RENAISSANCE MUSIC*** † 3 sem. hrs.
Emphasis on pre-Baroque; active listening; development of a technical vocabulary.
Prerequisite: 35.101 or 102.
- 35.222 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 or 35.102.
- 35.223 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.
- 35.224 CLASS PIANO I** † 2 sem. hrs.
Group piano instruction for the beginner. Emphasis on solo playing, creating accompaniments, and sight reading. Three hours/week.
- 35.225 CLASS PIANO II** † 2 sem. hrs.
Continuation of 35.242 for students of demonstrated ability. Developments of independence in solo playing and accompanying. Three hours/week.

- 35.226 CLASS VOICE I †** 2 sem. hrs.
Group voice instruction for the beginner. Emphasis on fundamental singing techniques and solo performance. Three hours/week.
- 35.228 SEMINAR IN PIANO ACCOMPANYING †** 2 sem. hrs.
Instruction, coaching, systematic score study, and critical performing experience for pianists. Three hours/week includes performing.
- 35.231 THEORY III †** 3 sem. hrs.
Continuation of Theory II, including formal analysis, original compositions, and perception skills. Four hours/week.
Prerequisite: 35.132 or permission of instructor.
- 35.232 THEORY IV †** 3 sem. hrs.
Continuation of Theory, Twentieth century composition including analysis and composition in melodic and harmonic idioms. Four hours/week.
Prerequisite: 35.132 or permission of instructor.
- 35.241-248 STRINGS MAJOR** 2 credits each semester
Two weekly half hour private lessons in strings for students majoring in the applied music specialization of the B.A. program.
- 35.251-258 ORGAN MAJOR** 2 credits each semester
Two weekly half hour private lessons in organ for students majoring in the applied music specialization of the B.A. program.
- 35.261-268 BRASS I-VIII** 2 credits each semester
Two weekly half hour private lessons in Brass for students majoring in the applied music specialization of the B.A. program.
- 35.271-277 VOICE MAJOR I-VII** 2 credits each semester
Two weekly half hour private lessons in voice for students majoring in music in the B.A. program for the specialization of applied music.
- 35.291-298 WOODWIND MAJOR I-VIII** 2 credits each semester
Individual lessons on instruments of the woodwind family for students majoring in music in the B.A. program and following specialization of applied music within that program.
- 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.
- 35.315 MUSIC FOR THE EXCEPTIONAL CHILD** 3 sem. hrs.
For teachers of children who deviate mentally, physically, and emotionally from the average. Emphasis on development of musical skills and understandings which help the teacher to function independently in the special classroom; an orientation to the musical experiences which further the general growth of exceptional children, and the development of organizational skills for effective learning.
- 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 or 35.102.
- 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.
- 35.327 SURVEY OF POPULAR MUSIC* †** 3 sem. hrs.
 Analysis of factors and elements of twentieth century popular music. Chronological study includes jazz, balladry, spiritual, country-western, theatre, rock, and soul in comparative listening situations.
- 35.331 THEORY V, COUNTERPOINT** 2 sem. hrs.
 Continuation of Theory, including melodic writing in two, three, and four voices. Three hours/week.
Prerequisite: 35.132 or permission of instructor.
- 35.332 THEORY VI, ORCHESTRATION** 2 sem. hrs.
 Continuation of Theory, including instrumental idioms, score writing, and analysis. Three hours/week.
Prerequisite: 35.132 or permission of instructor.
- 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.
- 35.350 SEMINAR IN MUSIC THEATRE** 3 sem. hrs.
 Study of the Broadway musical with special emphasis on works currently in production.
- 35.351 PIANO TEACHERS SEMINAR** 3 sem. hrs.
 Repertoire, history, methods, and piano performance for keyboard teachers.
- 35.352 SEMINAR IN VOCAL LITERATURE AND TECHNIQUES** 3 sem. hrs.
 A study of the physical mechanics of the singing voice for experienced vocalists. Vocal literature and the psychology of singing also presented.
- 35.421 EIGHTEENTH CENTURY MUSIC* †** 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.
- 35.441 PERFORMANCE SEMINAR** 1 sem. hr.
 Seminar for music majors electing the performance specialization. Performance practices, stage decorum, accompanying, and repertoire.
- 35.491 INDEPENDENT STUDY IN MUSIC** 1-3 sem. hrs.
 Student project of a creative nature in music history, education, or performance.
 [see section 7.5]

35.497 INTERNSHIPS IN MUSIC

3-15 sem. hrs.

Off-campus program to be arranged by student-faculty advisor and an off-campus agency. Consent of the Department of Music prior to registration is required.

PHILOSOPHY and ANTHROPOLOGY**FACULTY:**

Professors Richard J. Brook, William L. Carlough (Chairperson), Oliver J. Larmi; Associate Professors David Minderhout, Robert Reeder, Seymour Schwimmer, Robert Solenberger, Assistant Professor Marjorie Clay.

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

Philosophy 28.212, 28.310, 28.312

Philosophy 28.314 or 28.315;

18 semester hours elective.

COURSE DESCRIPTIONS

(Code 28)

Courses marked † may be used toward General Education.

28.211 INTRODUCTION TO PHILOSOPHY †

3 sem. hrs.

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

28.212 LOGIC †

3 sem. hrs.

Methods and principles of reasoning with applications to contemporary debates. Informal fallacies; the syllogism; predicate calculus; sentential calculus; quantification; and induction.

28.220 ETHICS †

3 sem. hrs.

Study of ethical theory focused on such issues as ethics as a branch of knowledge, egoism vs. altruism, role of intentions and consequences in moral judgments. Theories such as Relativism, Utilitarianism, and Kantianism, concepts of "rights" and "justice", will be investigated.

28.230 RELIGIONS OF THE EAST

3 sem. hrs.

Examination of religious beliefs from primitive stages to the developed systems of Hinduism, Buddhism, Confucianism, Taoism and Shinto. Emphasis on beliefs, traditions, and practices rather than historical data.

28.292 CONTEMPORARY MORAL PROBLEMS †

3 sem. hrs.

Investigation into some of the major contemporary (and perennial) moral problems: abortion and the rights of the fetus; pornography and its control; crime and its punishment; obedience to laws; discrimination based on race and sex; decision-making procedures; social justice; drugs, suicide and euthanasia; freedom and its limits.

28.303 PHILOSOPHY OF SCIENCE †

3 sem. hrs.

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

28.304 PHILOSOPHY OF THE SOCIAL SCIENCES †

3 sem. hrs.

Examination of conceptual problems in the social science disciplines, including objectivity, classification, explanation, nature of laws and reductionism.

- 28.306 PHILOSOPHY OF RELIGION †** 3 sem. hrs.
Critical analysis of the origins and nature of religious faith. Attention given to types of religion, evidence supporting religious belief, and problems in and challenges to religion.
- 28.308 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 story.
- 28.310 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.
- 28.312 HISTORY OF MODERN PHILOSOPHY †** 3 sem. hrs.
Examination of the writings of the 17th and 18th century philosophers whose work reflects the "scientific revolution" (Galileo to Newton). Works of Descartes, Locke, Berkeley, Hume and Kant will be considered. Topics include: the nature of reality, the sources and limits of knowledge, the relation between mind and body, and the possibility of a rational basis for religious belief.
- 28.314 EXISTENTIALISM AND PHENOMENOLOGY †** 3 sem. hrs.
Consideration of writings of such men as Kierkegaard, Nietzsche, Husserl, Sartre, and Tillich. Major themes include human subjectivity, human freedom, alienation and meaning.
- 28.315 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.
- 28.350 ENVIRONMENTAL PHILOSOPHY †** 3 sem. hrs.
Survey of attitudes towards nature, man's relationship to it, the role of technology, and discussion of the ethical dimensions of the environmental crisis.
- 28.351 THEORY OF KNOWLEDGE †** 3 sem. hrs.
Inquiry into the problem of knowledge, certainty and skepticism. Theory of perception; concepts of meaning and truth.
- 28.431 PHILOSOPHY OF HISTORY** 3 sem. hrs.
Philosophic issues of interest to the working historian, e.g. the problems of historical knowledge, historical objectivity, historical explanation, and the role of values in historical writing. Conflict between speculative and analytical philosophies is considered.
Prerequisite: 3 semester hours of philosophy or 6 semester hours of history.
- 28.470 INDEPENDENT STUDY IN PHILOSOPHY** 3 or 6 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. The course may be taken twice.
Prerequisite: 6 semester hours of philosophy. [see section 7.5]
- 28.471 SEMINAR** 3 sem. hrs.
ANTHROPOLOGY:
Arts and Sciences major for the B.A. degree:
Anthropology 46.100, 200; Sociology 45.211, 45.462 or Anthropology 46.470; Sociology 45.460 or Psychology 48.260; Biology 50.210; 12 semester hours elected

from Anthropology 46.405, 46.440, 46.480, 46.490, Sociology 45.213, 45.316, 45.476, Biology 50.333, 50.351, 50.431, 50.454 or other courses as recommended by adviser. Students contemplating graduate school should consider taking Mathematics 53.171.

COURSE DESCRIPTIONS
(Code 46)

46.100 GENERAL ANTHROPOLOGY † 3 sem. hrs.
The study of the emergence and development of man, the biological basis of human culture and society, and the origins of the social units of fossil man.

46.200 PRINCIPLES OF CULTURAL ANTHROPOLOGY † 3 sem. hrs.
Man's bio-cultural development and cultural achievement. The function of elements and configurations of material and non-material culture in meeting human needs. Cultural processes are 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 of prehistoric cultures, 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 contrasting cultural and natural areas. Stresses on the natural and social environment, national character, religion and world view, and literary, artistic, and musical expression.

46.330 PEOPLE OF SUB-SAHARAN AFRICA 3 sem. hrs.
Survey of cultures of Africa south of the Sahara. Topics include African languages, prehistory, art, marriage and the family, political and religious organization, impact of urbanization on social structure.

46.332 PERSONALITY AND CULTURE 3 sem. hrs.
Examination of cultural influences on the development of personality; analysis of personality differences in various cultures; explanatory hypotheses.

46.340 NORTH AMERICAN INDIANS 3 sem. hrs.
Survey of the native cultures of North America in prehistoric and early historic periods. Includes Indians and archeology of Pennsylvania.

45.350 MEDICAL ANTHROPOLOGY 3 sem. hrs.
Study of cross-cultural concepts of health, illness, and curing as well as health care delivery in industrialized cultures. Topics discussed include divination and diagnosis, sorcery and witchcraft in healing, public health and preventative medicine alcoholism and drug use, and the medical knowledge of tribal and peasant societies.

46.405 PRIMATES 3 sem. hrs.
The study of the various phenomena, affecting primate behavior; ecology, social life, and socio-cultural adaption, with emphasis on the development of socio-biological traits relating to human origins.

Prerequisite: 45.100 and 50.210.

- 46.410 PRIMITIVE ARTS** 3 sem. hrs.
Graphic arts, literature, music, and the dance of ancient and non-European cultures.
- 46.411 COMPARATIVE RURAL-URBAN SYSTEMS** 3 sem. hrs.
A cross-cultural analysis of rural-urban interaction. The course looks into the rise of cities as well as into traditional and modern trends in urbanization in order to discover general principles about rural-urban relations. Among the topics to be discussed are rural-urban economic patterns, political and social class structure, and comparative social organization in contiguous rural and urban communities. At least one non-Western rural-urban system is discussed in detail.
- 46.430 CULTURES AND PEOPLES OF OCEANIA** 3 sem. hrs.
Review of the types of aboriginal culture and the distribution of languages and physical types in the Pacific-Island world; archaeological evidence and migration routes from Malaysia to Melanesia and Polynesia.
- 46.440 LANGUAGE AND CULTURE** 3 sem. hrs.
A study of the place of oral and non-oral language in human evolution and contemporary cultures. Topics discussed include dialectal variation, discourse analysis, multilingualism, language and cognition, and the role of language in education.
- 45.450 PEOPLES OF CULTURES OF SOUTH AMERICA** 3 sem. hrs.
A survey introduction to the aboriginal, non-literature cultures of South America, including the ecological background, archaeology, and cultural patterns.
- 46.466 INDEPENDENT STUDY IN ANTHROPOLOGY** 1-6 sem. hrs.
Independent Study by a student with faculty guidance of a particular research problem in Anthropology. The research problem will either extend current course content or deal with an area not covered in the current course offerings in anthropology. The problem to be researched will be chosen by the faculty member and the student working together.
[see section 7.5]
- 46.470 HISTORY OF ANTHROPOLOGICAL THOUGHT AND THEORY** 3 sem. hrs.
This course surveys intensively the leading methods and theories of anthropological and ethnological interpretation, with special emphasis on the concept of culture and its practical application to modern problems.
- 46.480 RELIGION AND MAGIC** 3 sem. hrs.
A comparative analysis of the origins, elements, forms and symbolism of religious beliefs and behavior; the role of religion in society with particular reference to nonliterate societies. Anthropological theories and methods of religion, both historical and contemporary.
- 46.481 CULTURAL DYNAMICS** 3 sem. hrs.
Anthropology examines the modern world with emphasis on emerging new patterns of western and international culture. Study of the impact of mass society and technology on the animal, man, and prospects for the future.
- 46.490 SOCIALIZATION OF THE CHILD** 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.

PHYSICS

FACULTY:

Professors David A. Superdock (Chairperson), Halbert F. Gates, David J. Harper, Tobias F. Scarpino, M. Gene Taylor; Associate Professors P. Joseph Garcia, Stephen G. Wukovitz; Assistant Professor Russell B. DeVore.

PHYSICS:

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

Chemistry 52.102, 113; Mathematics 53.125, 126, 225, 271, 322; Physics 54.211, 212, 310, 311, 314, 400; 12 semester hours chosen from other Physics courses numbered above 300.

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

Chemistry 52.102, 113; Mathematics 53.125, 126, 225, 271, 322; 3 semester hours chosen from, Mathematics 53.212, 226, 373; Physics 54.211, 212, 310, 311, 314, 400, 450; 15 semester hours chosen 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.

COURSE DESCRIPTIONS (Code 54)

Courses marked † may be used toward General Education.

54.101 BASIC PHYSICAL SCIENCE † 3 sem. hrs.

An introductory integration of concepts and principles from chemistry, physics, and astronomy, with consideration for the nature of the scientific thought and of the interaction of science with human and community concerns. For non-scientists.

54.103 PRINCIPLES OF PHYSICAL SCIENCE † 3 sem. hrs.

An integrated physical science course emphasizing laboratory experience. Especially recommended for elementary teachers. Encourages the development of mental models to correspond with experience. Atoms, molecules, materials, and chemical change; energy; light and electricity. 4 hours lab-discussion/week.

54.104 PRINCIPLES OF PHYSICAL SCIENCE II † 3 sem. hrs.

A continuation of 54.103. Astronomy, atomic theory, geology, crystallography, and chemical bonding. 4 hours lab-discussion/week.
Prerequisite: 54.103 or consent of instructor.

54.105 ENERGY: SOURCES AND ENVIRONMENTAL EFFECTS † 3 sem. hrs.

The course is a primer in the problems of energy sources, utilization, and environmental effects in a technological society. It will include a review of circumstances leading to the present crises and a survey of the major sources of energy (fossil and nuclear) including reserves, utilization, and production of electricity. Supplemental sources such as hydroelectric, wind, solar, geothermal and others will also be reviewed in terms of their technological state and promise for the future.

54.107 APPLIED PHYSICS FOR HEALTH SCIENCES 4 sem. hrs.

Selected principles of physics with applications to the processes and instrumentation of medical technology. Mechanics, fluids, kinetic energy and heat, optics, electricity, and magnetism, electronics, atomic structure, radiation, and data acquisition and readout. 3 hours class, 3 hours laboratory per week.

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.**

An 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 53.125 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 53.126 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. 52.102, 113; or their equivalent.

54.304 NUCLEAR RADIATIONS**2 sem. hrs.**

A laboratory-oriented course dealing primarily with basic techniques for detecting, measuring, and analyzing nuclear radiations. Applications of nuclear radiations in science and technology. Aspects of radiation safety and radiation pollution of the environment. 1 class, 3 laboratory/week.

Prerequisite: 54.112 or 212 or consent of instructor.

54.310 MODERN ATOMIC PHYSICS †**3 sem. hrs.**

Introduction to the concepts of quantum theory, wave mechanics, and relativity in atomic and nuclear physics.

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. Motion of a rigid body.

Prerequisite: 54.212, or 54.112 with consent of instructor; Math 53.225 or consent of instructor.

54.314 ELECTRICITY AND MAGNETISM**3 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.

Prerequisite: Phy 54.212, or 54.112 with consent of instructor; Math 53.225.

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

3 sem. hrs.

A combination of geometrical optics including lens theory with physical (wave) optics including diffraction, interference, polarization, lasers, and coherent light.

Prerequisite: 54.212 or 54.112 with consent of instructor.

54.400 ADVANCED PHYSICS LABORATORY

4 contract hrs, 2 credit hrs.

The course will deal with the basic tenets of lab work in physics, involving considerations of experimental error, proper research and preparation for an experiment, and experimental design. Experiments primarily from the areas of atomic physics, electricity and magnetism, and optics will be performed. 1 class, 3 laboratory/week.

Prerequisite: Phys 54.310, 54.314.

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, semi-conductors, band theory, and the p-n junction. Dielectric and magnetic properties of matter.

Prerequisites: Phys 54.314, 54.310; Math 53.322.

54.422 THERMODYNAMICS

3 sem. hrs.

Concepts and principles of classical thermodynamics. Thermodynamics of simple systems. Introduction to kinetic theory and statistical thermodynamics.

Prerequisites: Phys 54.212 or 54.112 with consent of instructor; Math 53.225.

54.450 INTRODUCTION TO QUANTUM MECHANICS

3 sem. hrs.

An introduction to the fundamentals of quantum and wave mechanics beginning with a review of quantum radiation theory and proceeding through the Schrodinger presentation. Treatment includes one dimensional potential function, the harmonic oscillator, and the hydrogen atom.

Prerequisites: Physics 54.311, 314; Mathematics 53.332.

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.

Prerequisite: Phys 54.112; Chem 52.102; or their equivalent.

54.490 SEMINAR IN PHYSICS

1 sem. hr.

54.491 INDEPENDENT STUDY IN PHYSICS

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.

[see section 7.5]

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 supervising faculty member must be approved in advance by the department chairperson.

POLITICAL SCIENCE

FACULTY:

Professors Robert L. Rosholt (Chairperson), Charles G. Jackson; Associate Professors Martin M. Gildea, Prakash C. Kapil, James W. Percey; Assistant Professor Richard L. Micheri.

POLITICAL SCIENCE:

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

Total hours — 30 semester hours;

Required courses — 12 semester hours including:

Elements of Political Science (101)

United States Government (161);

One course from the theory and methodology group:

108, 405, 409, or 412

One course from the comparative government/international relations group: 171, 181, 366, 371, 372, 373, 383, 463, 464, 465, or 487

Only one 100-level course may be used to fulfill the theory/methodology (108) or the comparative government/international relations (171, 181) requirements.

Political Science electives — 18 semester hours;

Additional restrictions — no more than 12 semester hours of 100-level course work may be included in the 30 semester hour total. Up to 6 semester hours of the 30 semester hour total may be taken in cognate disciplines with the approval of the departmental advisor.

COURSE DESCRIPTIONS

(Code 44)

† May be used toward the General Education requirements.

- 44.101 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.
- 44.108 CONTEMPORARY POLITICAL IDEOLOGIES †** **3 sem. hrs.**
 An introduction to political ideas shaping the contemporary world: nationalism, liberalism, conservatism, anarchism, totalitarianism, capitalism, socialism, communism.
- 44.110 LEARNING POLITICS THROUGH SCIENCE FICTION †** **3 sem. hrs.**
 Using science fiction novels, films and short stories to teach an introductory course dealing with continuing political concepts and problems in the discipline.
- 44.161 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.
- 44.171 COMPARING STATES AND NATIONS †** **3 sem. hrs.**
 An introduction to the procedures of comparative government with emphasis on research methodologies and interpretation of research results. This course will be world wide rather than regional in scope.
- 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.

44.303 POLITICS AND THE ARTS †**3 sem. hrs.**

A survey of painting, music, films, poetry and novels, with emphasis on novels to show the relationships between these media and political concepts, philosophy and problems.

44.322 POLITICAL VIOLENCE**3 sem. hrs.**

A survey of individual, group, and mass political violence, concentrating on causes and manifestations. Positive and negative effectiveness of political violence with the object of placing the phenomena in meaningful historical and contemporary contexts.

44.323 POLITICS AND PSYCHOLOGY**3 sem. hrs.**

This course seeks to describe, explain and analyze topics in personality and social psychology that seem relevant in understanding political behavior. It seeks to explore the question: "What are the relationships between a man's personality, his psychological make-up and the way he behaves politically?" Moreover, it will try to show students how to think about psychology and politics, what kinds of evidence to gather and how to gather that evidence in a scientific way.

44.324 POLITICAL SOCIALIZATION**3 sem. hrs.**

The process of socialization to political attitudes, values, and behaviors through socializing agents such as the family, elementary and secondary schools, peer groups, work groups, and the mass media studied in light of political, psychological and sociological concepts.

44.326 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.

44.331 LEGAL AND POLITICAL ASPECTS OF BUSINESS**3 sem. hrs.**

This course is designed to examine and analyze the extensive and significant role that government and politics play in the business world as promoter, regulator, buyer and manager of business. The impact of political processes and governmental policies on the economic sector will be studied in an historical and contemporary perspective, using ideological, constitutional, statutory, adjudicative and behavioral analysis.

44.336 PUBLIC ADMINISTRATION THEORY**3 sem. hrs.**

Administrative and organizational theory with an emphasis on structural-functional analysis; bureaucratic behavior; current developments.

44.366 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.

44.371 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 tribalism; economic and political development.

44.372 GOVERNMENT AND POLITICS OF THE MIDDLE EAST †**3 sem. hrs.**

This is a three credit course that seeks to present and analyze the politics of the Middle East as a coherent system of particular states. The course also will focus on the conflict between the Arabs and the Israelis and the international implications of the conflict.

44.373 GOVERNMENT AND POLITICS IN CHINA AND INDIA †**3 sem. hrs.**

Politics and government in selected states with an emphasis on the forces which shape domestic and foreign politics and processes.

- 44.383 INTERNATIONAL RELATIONS** 3 sem. hrs.
Sources of international conflict and cooperation; power politics in the international arena; problems of collective security and the settlement of disputes.
- 44.405 THE DEVELOPMENT OF POLITICAL THOUGHT** 3 sem. hrs.
Selected political theorists from Plato to Nietzsche are compared with contemporary 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 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 America from the Colonial period to the present.
- 44.412 SCOPE, APPROACHES AND METHODS OF POLITICAL SCIENCE** 3 sem. hrs.
This course seeks to explain and analyze the various approaches and methods currently in use in political science as well as to indicate the range and develop the logic of that discipline. Specifically it studies: the scope and nature of political science; the meaning and nature of facts, concepts and constructive "laws", explanation, and theory, the problem of values in political science; various approaches such as functionalism, systems' theory, power theories, groups and roles, etc., and methods of research.
- 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).
- 44.438 CIVIL SERVICE EMPLOYMENT POLICIES AND PRACTICES** 3 sem. hrs.
For political science majors and others interested in public service. Employment patterns of government, structure and function of personnel systems, and problems encountered in the public service.
- 44.440 THE PRESIDENT AND CONGRESS** 3 sem. hrs.
Presidential and congressional politics. Public policy-making roles. Executive-legislative relationships. Constitutional issues. Problem area and proposals for reform.
- 44.446 CONSTITUTIONAL LAW I** 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 and federal-state relationships.
- 44.447 CONSTITUTIONAL LAW II** 3 sem. hrs.
A study of the decisions of the Supreme Court as they are related to the individual and the government concentrating on: nationalization of the Bill of Rights; rights of persons accused of crimes; equal protection and voting rights.
- 44.448 THE JUDICIAL PROCESS** 3 sem. hrs.
Judicial policy making is studied through systems theory, group theory, and judicial attitude and behavior.

**44.452 STATE AND LOCAL GOVERNMENT
AND POLITICS**

3 sem. hrs.

A description and analysis of state and local legislatures, executives, and judiciaries; the myths and realities of state and local politics; intergovernmental relations; current policies and problems.

44.456 PUBLIC POLICY

3 sem. hrs.

It will cover all aspects of public policy including those related to the environment. It will include formation and adoption, implementation, impact and outcome, and evaluation and analysis.

44.457 POLITICAL ECONOMY

3 sem. hrs.

A course designed primarily for political science majors dealing with political markets, currency and resource floor exchange, bargaining, inflation and deflation, and resource accumulation.

44.458 U.S. FOREIGN POLICY

3 sem. hrs.

An analysis of the substance, methods, and purposes of U.S. foreign policy including the determinants of our foreign policy, policy making machinery, the implementation of our foreign policy, and contemporary foreign policy problems.

44.463 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.

44.464 GOVERNMENT AND POLITICS OF IRELAND I †

3 sem. hrs.

A survey of historic, social, cultural, and religious developments in Ireland, with concentration on a study of the government and politics of Northern Ireland and the Irish Republic. Contemporary literature, drama, music, and art.

44.465 GOVERNMENT AND POLITICS OF IRELAND II †

3 sem. hrs.

A study-tour of Northern Ireland and the Irish Republic including visits to museums, galleries, theaters, and historic sites and meetings with governmental and political leaders. Approximately half of the time is spent in Dublin, the remainder on a bus trip through the Republic and Northern Ireland.

44.487 INTERNATIONAL LAW AND ORGANIZATIONS

3 sem. hrs.

The theoretical and practical implications of the legal and organizational efforts to regulate inter-nation relations with emphasis on international law, the United Nations, the International Court of Justice, and regional and functional organizations.

44.490 INDEPENDENT STUDY IN POLITICAL SCIENCE

1-6 sem. hrs.

Designed primarily for individualized reading, research, and reporting under conditions for minimal supervision. Projects must have departmental approval and be under way by the end of the first week of a term. [see section 7.5]

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 either group or individual study.

44.492 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.

44.496 FIELD EXPERIENCE IN POLITICAL SCIENCE

1-6 sem. hrs.

Supervised individual or group activities, including internships of a non-classroom variety in applied areas of political science.



44.497 INTERNSHIP IN POLITICAL SCIENCE

3-12 sem. hrs.

An on-site work experience and training program designed to give selected interns an opportunity to apply the theoretical and descriptive knowledge acquired in the classroom to the political, legal, organizational, and administrative operations of contemporary institutions.

PSYCHOLOGY

FACULTY:

Professors John S. Baird (Chairperson), Michael W. Gaynor, J. Calvin Walker; Associate Professors Donald R. Bashore, Donald A. Camplese, Steven L. Cohen, Robert B. Hessert, L. Richard Larcom, Alex Poplawsky, Constance J. Schick; Assistant Professors James Dalton, Michael M. Levine.

PSYCHOLOGY:

Arts and Sciences major for B.A. degree:

Psychology 48.101, 260, 261, and 401 plus 18 semester hours of electives in psychology with one course in each of *four* categories, defined by the department, for a minimum of 31 hours.

COURSE DESCRIPTIONS

(Code 48)

48.101 GENERAL PSYCHOLOGY †

3 sem. hrs.

Psychology is viewed as a system of scientific inquiry into the nature and behavior of man. Major concepts, principles and processes concerned with man's functioning as an individual and as a social being.

48.210 LIFE-SPAN PSYCHOLOGY †

3 sem. hrs.

The psychology of human development from conception to death. Traditional topics and issues in developmental psychology such as cognition and personality will be treated but within a life-span developmental perspective.

48.211 CHILD PSYCHOLOGY †

3 sem. hrs.

A study of normal development and the interrelationships among various aspects of biological, cognitive, personality and social factors. Emphasis on prenatal to adolescent development.

Prerequisite: 48.101.

48.231 PSYCHOLOGY OF ADJUSTMENT †

3 sem. hrs.

Personal and social meaning of adjustment. An operational approach to mental health is taken, including such concepts as anxiety, frustration, conflict, aggression and defense.

48.251 SOCIAL PSYCHOLOGY †

3 sem. hrs.

The study of interpersonal behavior-how individuals affect and are affected by others-with emphasis on affiliation, interpersonal perception and attraction, group behavior and conformity, attitude change and compliance.

Prerequisite: 48.101.

48.260 BASIC STATISTICS †

3 sem. hrs.

An introduction to fundamental statistical concepts and principles, providing a foun-

dition for research methodology for students who need not be mathematically inclined. Computation, interpretation, and application of commonly used descriptive, correlation, and inferential statistical procedures for analyzing data.

48.271 EDUCATIONAL PSYCHOLOGY † **3 sem. hrs.**

Principles of psychology as applied to the classroom. Emphasis is upon learning processes as affected by environmental, experiential, and developmental factors.

Prerequisite: 48.101.

48.281 EXPERIMENTAL PSYCHOLOGY: METHODOLOGY **3 sem. hrs.**

An introduction to experimental design, statistical analysis, and issues of control and founding. Surveys classical and learning experimentation as well as issues in social, developmental, educational, and clinical psychology from an experimental perspective.

Prerequisite: 48.01 and 48.260.

48.282 EXPERIMENTAL PSYCHOLOGY: APPLICATIONS **3 sem. hrs.**

A survey, the application of designs and statistics to problems encountered in psychology. Addresses ethical issues in experimentation, the value of experimentation, and the limitations of research designs. Emphasizes discussion and application of various research strategies to contemporary and traditional problems in psychology.

Prerequisite: 48.101, 48.260 and 48.281 or concurrently taking 48.281.

48.311 ADULTHOOD AND AGING † **3 sem. hrs.**

A study of development of adults in our culture. Topics include the effects of the social environment on aging, special problems of aging, sex differences during adulthood, vocational, marital and familiar development, and the psychology of death and dying. Emphasis is placed on human behavior between young adulthood and senescence with particular emphasis on the aging process.

Prerequisite: 48.101.

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 in administering, scoring, and interpreting test results. Provides student with background for test evaluation.

Prerequisite: 48.101.

48.335 ABNORMAL PSYCHOLOGY **3 sem. hrs.**

A survey of 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.

48.353 INDUSTRIAL PSYCHOLOGY **3 sem. hrs.**

A study of behavior principles, techniques of investigation and methods of evaluating possible solutions to human relations problems such as morale, leadership, productivity, selection, placement, training, job design, motivation, fatigue, job satisfaction and organizational structure and functions, found in industry and government.

Prerequisite: 48.101.

48.356 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, 48.260, 48.261 or consent of instructor.

48.375 PSYCHOLOGY OF LEARNING **3 sem. hrs.**

Theoretical and experimental bases of learning in animal and human behavior. Situa-

tional and drive factors affecting learning, stimulus generalization and discrimination, retention, and forgetting.

Prerequisite: 48.101, 48.260, 48.261, or consent of instructor.

48.380 PHYSIOLOGICAL PSYCHOLOGY 3 sem. hrs.

A study of the relationship between psychological processes and physiological activity. Neurological and biochemical bases of behavior with emphasis upon the synergistic functions of the nervous system, sense organs, and glandular system.

Prerequisite: 48.101, 48.260, 48.261, or consent of instructor.

48.401 HISTORY OF PSYCHOLOGY 3 sem. hrs.

A study of the historical development of modern psychology. Compares present-day models of behavior within a historical framework.

Prerequisite: 48.101.

48.406 PSYCHOLOGY SEMINAR 3 sem. hrs.

An advanced consideration of significant topics in psychology. Reports and discussions of current research. Course may be repeated with change in topic.

Prerequisite: 21 hrs. in psychology and consent of instructor.

48.416 ADOLESCENCE † 3 sem. hrs.

Study of developmental, personal and social issues confronting adolescents as they emerge from childhood and strive for adulthood.

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

48.439 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 sem. hrs.

A survey of clinical psychology and the role of the clinical psychologist in community and hospital mental health programs, clinical assessment and diagnosis; and examination of concepts in and models of psychotherapy.

Prerequisite: 48.335 or 48.436 or consent of instructor.

48.451 LABORATORY TRAINING IN GROUP PROCESSES 3 sem. hrs.

An examination of theories of interpersonal interaction, the development of self concepts, and the formation and development of group cultures. Class size limited to 20 students.

Prerequisite: 48.101 and consent of instructor.

48.453 ORGANIZATIONAL PSYCHOLOGY 3 sem. hrs.

The application of psychological theory and research to the study of industrial, business, profit and nonprofit service, military and governmental organizations. The emphasis is on the interaction of individual perceptions, group dynamics, and organizational climates and on strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations.

Prerequisite: Junior Standing, 48.101, 49.251.

48.454 PSYCHOLOGICAL STUDY OF SOCIAL ISSUES 3 sem. hrs.

Selected social issues (e.g., conflict, social change) studied in terms of intra-individual processes and of interactive processes between the individual and society. Emphasis on research findings and theory as to possible alternatives or solutions to current practices. Course may be repeated with change in topic.

Prerequisite: 48.101, junior standing, or consent of instructor.

48.458 NONVERBAL COMMUNICATION AND INTERPERSONAL RELATIONS

3 sem. hrs.

Experimental investigation of interpersonal and intrapersonal communication (within the framework of interpersonal relations) based on various communication modes (i.e., verbal, nonverbal, vocal, etc.). Understanding of research and theory in relation to selected problems in communication, conducting experimental research in communication are stressed.

Prerequisites: 48.251 or consent of instructor (48.260 recommended.)

48.464 ADVANCED EXPERIMENTAL DESIGN

3 sem. hrs.

An advanced consideration of the planning, conduct, and evaluation of research in the behavioral and biological sciences, employing parametric and non-parametric statistics. Emphasis on inferential statistics, design, analysis, interpretation and computer utilization.

Prerequisite: 48.101, 260, 261 or consent of instructor.

48.466 INDEPENDENT STUDY IN PSYCHOLOGY

1-3 sem. hrs.

The study of a topic via either review and research of technical psychological literature or empirical manipulation of variables in the field or laboratory under supervision of a Psychology faculty member resulting in a written report of its outcome.

Prerequisite: Consent of instructor and departmental approval.

[see section 7.5]

48.476 PRINCIPLES OF BEHAVIOR MODIFICATION

3 sem. hrs.

The application of learning principles to change behavior in both individual and group settings.

Prerequisite: 6 credits in psychology.

48.497 PRACTICUM IN PSYCHOLOGY

3-12 sem. hrs.

An introduction to psychology as a profession, with opportunity provided for study, observation, and practice in the setting of a community agency, or post-secondary educational institution. May be repeated for a total of 12 semester hours.

SOCIOLOGY AND SOCIAL WELFARE

FACULTY:

Professors James H. Huber (Chairperson), Chang Shub Roh, Ralph R. Ireland; Associate Professors Christopher F. Armstrong, David E. Greenwald, Bernard J. Schneck; Assistant Professors Charles W. Laudermilch, I. Sue Jackson.

SOCIOLOGY:

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

Sociology major: 45.211, 460, 462, 466; 18 semester hours in sociology and/or anthropology elected by the student in consultation with the adviser.

For a concentration in social welfare, the student should include among the electives 45.233, 334, 336 and seek the adviser's recommendation for the remaining 9 semester hours of electives.

COURSE DESCRIPTIONS

SOCIOLOGY

(Code 45)

45.211 PRINCIPLES OF SOCIOLOGY †

3 sem. hrs.

Basic characteristics of group behavior: organization of society and culture; individual and community adjustment in the light of the origin, development, form, and functions of society.

- 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.
- 45.233 INTRODUCTION TO SOCIAL WORK** 3 sem. hrs.
An orientation to the profession of social work including an examination of historical and current social work processes, values and practice in various settings.
- 45.315 RACIAL AND NATIONAL MINORITY GROUPS †** 3 sem. hrs.
A sociological examination of some of the major racial, ethnic and religious minorities and their divergent heritages in the contemporary American scene.
Prerequisite: 45.211.
- 45.316 URBAN SOCIOLOGY** 3 sem. hrs.
Sociological analysis of origin and growth of the city in the U.S. with emphasis on socio-ecological changes and the dynamic patterns of interaction on the urban contemporary scene as viewed from a cross-cultural perspective.
Prerequisite: 45.211.
- 45.318 SOCIAL STRATIFICATION** 3 sem. hrs.
This course examines the role of social class in terms of its structure, function, and persistence in any society. There is an examination of classical theoretical statements and current evaluation of American class relations in terms of status, power, authority, and social mobility. Notable studies of the American class system are covered and a close look at power relations and styles of life among the various American classes. A convenient subtitle of this course might be who gets what and why.
Prerequisite: 45.211.
- 45.319 RELIGION AND SOCIETY †** 3 sem. hrs.
Analysis of the relationship between religion as an institution and society as a social process.
Prerequisite: 45.211.
- 45.331 MARRIAGE AND THE FAMILY †** 3 sem. hrs.
Sociological examination of the traditional and changing institutions of marriage and the family in contemporary society with special focus on family and marital interaction, patterns, and problems.
- 45.334 SOCIAL WORK PROCESSES I** 3 sem. hrs.
An examination of social work values, theories and techniques in modern social case-work practice.
Prerequisite: 45.211.
- 45.335 SOCIAL WELFARE SERVICES †** 3 sem. hrs.
An introduction to the public and private social welfare systems emphasizing the responsibilities of the social worker and the relationship between social work and the other professional disciplines.
Prerequisite: 45.211 and 45.233.
- 45.336 CHILD WELFARE** 3 sem. hrs.
An examination of child welfare services and the institutions which impinge upon the social functioning of children.
Prerequisite: 45.211 and 45.233.
- 45.337 SOCIAL WORK PROCESSES II** 3 sem. hrs.
Community Organization Practice as a methodology of the social work profession is studied with respect to its relevant systems, theories, strategies, and practice principles.
Prerequisite: 45.211 and 45.233.

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.

45.441 SOCIAL INDICATORS

3 sem. hrs.

This course is designed to reinforce and extend earlier learning in research techniques and methods by focusing upon systematic step-by-step understanding, analysis and preparation of social indicators at the Federal, State, and local levels of social policy planning and analysis. The emphasis is on developing student understanding of social indicators and their use in social planning within all levels of society.

Prerequisite: 45.211, 45.316, 45.460 or equivalent.

45.442 JUVENILE DELINQUENCY

3 sem. hrs.

Examination of social pressures operative upon children in American society which leads to formation of delinquent personality. Consideration of treatment and prevention, juvenile courts, clinics and correctional institutions, evaluation of theories, concepts and relevant empirical research.

Prerequisite: 45.211.

45.443 SOCIOLOGY OF DEVIANT BEHAVIOR

3 sem. hrs.

This course evaluates the presence and function of deviance in society; its various types, including mental illness and various types of crime and stigmatized behavior; and how it is handled therapeutically and legally; institutionalization and treatment. It attempts to provide a broad theoretical perspective as well as concrete examples of deviance in any society. The last third specifically examines current methods of rehabilitation and punishment.

Prerequisite: 45.211.

45.450 SOCIAL WORK PROCESSES III

3 sem. hrs.

An analysis and application of concepts from communication, information, and systems theory to social work practice.

Prerequisite: 45.211.

45.457 SOCIOLOGY OF COMMUNITY LIFE

3 sem. hrs.

A review and examination of theories and research of the concept of community, with special emphasis on the impact of social change upon rural-urban community life.

Prerequisite: 45.211.

45.460 BASIC SOCIAL STATISTICS

3 sem. hrs.

Introductory principles and techniques of statistical analysis with emphasis an application to sociological data; collection and tabulation of data; probability; inference and estimation; measures of dispersion; sampling and correlation, regression and predictability.

Prerequisite: 45.211.

45.462 SOCIOLOGICAL THEORY

3 sem. hrs.

An examination of the classical and modern forms of sociological theory.

Prerequisite: 45.211.

45.465 ADVANCED METHODS OF RURAL-URBAN ANALYSIS

3 sem. hrs.

Probability theory, sampling, and statistical inference applicable to rural-urban area analysis. Emphasis is placed on the problem involved in researching the changing social composition of rural-urban communities.

Prerequisite: 45.211.

45.466 SOCIAL RESEARCH

3 sem. hrs.

A step by step examination of the methods and techniques of sociological research. Introduction to the nature of research from problem formulation to the data analysis stage with concrete and practical application to an ongoing student research project of the local community.

Prerequisites: 45.211; 45.460; 45.462 or permission of instructor.

45.467 POPULATION PROBLEMS

3 sem. hrs.

Distribution of population, its composition, and other characteristics; size, trend, growth and future developments of population; impact of population problems as influenced by process of fertility, morality, and migration.

Prerequisite: 45.211.

45.468 SOCIAL SERVICE PLANNING

3 sem. hrs.

An advanced consideration of the social context of the theories and applications and social effects of social planning, social policy and social services systems in service based post-industrial societies/at all levels of government.

Prerequisites: 45.211; 45.316.

45.470 SENIOR SEMINAR

3 sem. hrs.

Individual research projects and reports within selected area of interest such as the family, criminology, social services, and ethnic minorities, etc.

Prerequisite: 18 hours of sociology social work including 45.211, 45.460 and 45.466, and permission of the department chairperson.

45.471 INDEPENDENT STUDY IN SOCIOLOGY

1-6 sem. hrs.

Designed specifically for the student who wishes to pursue individualized instruction in depth with the faculty member in a specific area of the field.

Prerequisite: 45.211, 45.460, 45.462, 45.466 and permission of the instructor and the department chairperson, and the faculty committee on independent study.

[see section 7.5]

45.474 CONTEMPORARY ENVIRONMENTAL ISSUES

3 sem. hrs.

Some major human problems that lead to environmental deterioration, particularly water, air and noise pollution, energy and other resource depletion, and increasing population density.

Prerequisite: 45.211.

45.476 SOCIOLOGY OF SCIENCE

3 sem. hrs.

This course treats science as the organized activities of an occupational community. It examines the development of science as an institution, its social organization in modern society, and its internal and external politics.

Prerequisite: 45.211.

45.477 COMMUNITY LAND USE PLANNING

3 sem. hrs.

This course is designed to expose the student to the planning process and the theoretical perspectives relevant to community land use planning. Selected substantive planning problem areas in the local community will be examined. Students are expected to formulate, develop and present a community land use plan as the culmination of the course experience.

Prerequisite: 45.211.

45.478 INDUSTRIAL SOCIOLOGY

3 sem. hrs.

A sociological examination of work and the milieu of the worker; formal and informal work organizations; worker job satisfaction and dissatisfaction. The structure and organization of industrial and post-industrial societies; and the relationship between work organizations to be community and society.

Prerequisite: 45.211.

45.490 SOCIOLOGY OF AGING**3 sem. hrs.**

A study of aging, its major theoretical themes, patterns of living, socio-psychological and cultural consequences of aging. Further, the course examines the contemporary issues, problems and programs of the aging.

Prerequisite: 45.211

45.496 INTERNSHIP PROGRAM**1-15 sem. hrs.**

Designed primarily for the Junior or Senior student working in a specific institutional field and/or the College-approved off-campus activities related to the student's chosen professional field.

Prerequisite: 45.211, 45.460, 45.462, 45.466 and permission of the Department Chairperson.

45.497 SOCIOLOGY FIELD WORK EXPERIENCE**1-6 sem. hrs.**

Placement in community agencies for supervised field work experience under the guidance of professional sociologists, social workers, and/or other mental health specialists and educators. On-campus seminars provide a framework of psycho-social theory, skills, and professional ethics.

Prerequisite: 45.211, 45.460, 45.462, 45.466 and permission of the Department Chairperson.

SPEECH, MASS COMMUNICATION, AND THEATRE

FACULTY:

Professor Melville Hopkins (Chairperson); Associate Professors William Acierno, Richard Alderfer, Erich Frohman, Michael McHale, Robert D. Richey; Assistant Professors George Boss, Hitoshi Sato, Harry Strine, Janice Youse; Adjunct Associate Professor Ralph Smiley.

SPEECH/THEATER:

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

25.103, 206, 241, 325; 26.208 or 25.321; 26.312;

Elective: Twelve semester hours in Public Address courses chosen from Code 25 courses or twelve semester hours in Theatre courses chosen from Code 26. Thirty total semester hours.

MASS COMMUNICATIONS:

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

Requirements: 18 hours of the core courses listed below with 25.103 as a prerequisite.

Core Courses: 20.105*, 25.205*, 25.307, 27.225, 27.231*, 27.115 or 27.300.

(Introduction to Journalism, Rhetorical Theory, Business and Professional Speech, Introduction to Radio and Television, Mass Communication and the Popular Arts; Cinema Appreciation or Theatre as Mass Media)

Note: All incoming freshmen, starting with the Fall Semester 1980 will be, and are expected to complete the core above by the end of the first semester of their sophomore year with a grade average of 2.75 in the core before they will be accepted into the Mass Communication program. If for any reason a student should not be acceptable in the Mass Communication program, the core courses marked with an * may be counted toward general education requirements or as electives. Only students with Jr. and Sr. standing are permitted to enroll in 300 and 400 level courses and internships. All contacts regarding Internships must be made a) through their advisors, b) the chairperson of the Internship Committee, and c) must be submitted one month before the Internship is to start.

In addition to the core courses, the student may pick one area of concentration though it is recommended that two areas of concentration be selected.

Areas of Concentration:	ADVERTISING, JOURNALISM, PUBLIC RELATIONS, RADIO, TELEVISION, AND FILM
ADVERTISING:	27.330, 27.450, 32.250, 93.345, 93.442 Prerequisites: 25.421, 40.211, 40.212, 93.342
JOURNALISM:	20.205, 20.255, 20.304, 20.305, 27.332
PUBLIC RELATIONS:	20.255, 20.302, 25.421, 27.332, 93.346 Prerequisites: 40.211, 40.212
RADIO:	27.331, 27.335, 27.480, 93.342, 93.45 Prerequisites: 26.240, 40.211, 40.212
TELEVISION:	27.331, 27.335, 27.338, 27.482, 93.342 Prerequisites: 26.211, 40.211, 40.212
FILM:	27.130, 27.360, 27.361, 27.460 Prerequisites: 26.211, 26.314, 27.115 (Corequisite: 27.360 with 27.460)

COURSE DESCRIPTIONS

SPEECH COMMUNICATION

(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 formal speaking and audience reaction.
- 25.104 INTERPERSONAL SPEECH/COMMUNICATION †** 3 sem. hrs.
An analysis of rhetorical situations that emphasize an intimate setting for developing interpersonal speech/communication.
- 25.108 FORENSICS †** 3 sem. hrs.
Participation in forensics: debate or individual speaking events. Participation for two semesters for one semester hour. May be repeated for maximum of three semester hours.
- 25.205 RHETORICAL THEORY †** 3 sem. hrs.
The course highlights major trends in rhetoric from Aristotle to contemporary rhetorical theorists.
- 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.
Prerequisite: 25.103, or consent of instructor.
- 25.215 COMMUNICATION THEORY †** 3 sem. hrs.
A study of Communication Theories as they relate to contemporary speech situations.
- 25.218 DISCUSSION †** 3 sem. hrs.
Survey of and practice in types and patterns of public discussion.
Prerequisite: 25.103, or consent of instructor.
- 25.220 INTERCULTURAL COMMUNICATION †** 3 sem. hrs.
An overview of speech communication as it relates to socio-cultural differences that reflect ethnic and racial experiences, knowledge, and values.
- 25.241 VOICE AND DICTION †** 3 sem. hrs.
A study of vocal phonetics voice problems.

- 25.285 PARLIAMENTARY LAW** 3 sem. hrs.
Parliamentary procedure and practice in its usage.
Prerequisite: 25.103, or consent of instructor.
- 25.307 BUSINESS AND PROFESSIONAL SPEECH** 3 sem. hrs.
Business and professional communication; policy conferences and interviewing.
Prerequisite: 25.103.
- 25.321 ARGUMENTATION †** 3 sem. hrs.
Basic principles of argument. Practice through debate; written practice through a brief.
Prerequisite: 25.103.
- 25.325 EXTEMPORE SPEECH** 3 sem. hrs.
Analysis of extemporaneous speech based on the correlation of thinking and speaking.
Prerequisite: 25.103.
- 25.421 PERSUASION** 3 sem. hrs.
Ethical and scientific approaches of human motivation. Principles and oral practice.
Prerequisite: 25.103.
- 25.492 SEMINAR: PUBLIC ADDRESS** 3 sem. hrs.
Investigation in depth of a speaker, a period, or a movement.
Prerequisite: 9 semester hours in Public Address or consent of instructor.

THEATRE ARTS
(Code 26)

- 26.107 THEATRE †** 1 sem. hr.
Participation in plays: acting or technical work. Participation for two semesters for one semester hour. May be repeated for maximum of three semester hours.
- 26.208 INTRODUCTION TO THEATRE ARTS †** 3 sem. hrs.
A survey: criticism, direction, play production, theatre history, stage design, and acting.
- 26.209 THE THEATRE OF TODAY †** 3 sem. hrs.
A course designed to project materials that will make the experience of the theatre-goer more discerning, discriminating, analytical, and critical. Field trips required.
- 26.211 THEATRE PRODUCTION †** 3 sem. hrs.
Planning, execution and supervising production work and business procedures.
- 26.231 INTRODUCTION TO RADIO AND TELEVISION †** 3 sem. hrs.
A survey of communication practices in radio and television. Laboratories in classroom.
- 26.240 PLAYWRITING †** 3 sem. hrs.
A study of dramatic structure, writing styles, and types of drama. Student writes full-length (or equivalent) play. Adaptations of other forms of literature acceptable.
- 26.311 SCENE DESIGN †** 3 sem. hrs.
Studies of design problems in various styles and periods; application of research and preparation of working drawings.
Lab hours required.

- 26.312 FUNDAMENTALS OF ACTING †** 3 sem. hrs.
Introduction to the theories and techniques of acting. Individual and group exercises.
- 26.314 STAGE AND LIGHTING: THEORY OF LIGHTING** 3 sem. hrs.
Intensive study of theory; design of lighting of a production supplemented by applied work on productions.
Lab hours required.
- 26.318 CREATIVE DRAMATICS †** 3 sem. hrs.
Improvisational techniques for the classroom for playmaking with children.
- 26.319 CHILDREN'S THEATRE †** 3 sem. hrs.
Theories, techniques and literature of theatre for children. Laboratory hours.
- 26.411 PLAY DIRECTION** 3 sem. hrs.
Study of the principles and techniques of play direction, with demonstrations, exercises, and production.
Prerequisite: 26.208 or consent of the instructor.
- 26.414 COSTUMING FOR THE STAGE †** 3 sem. hrs.
Historical developments and elements of design. Laboratory hours.
- 26.415 HISTORY OF THE THEATRE †** 3 sem. hrs.
Survey of structures, production practices, and plays from the beginnings to Ibsen.
Prerequisite: 26.208 or consent of the instructor.
- 26.416 MODERN THEATRE** 3 sem. hrs.
Practice and philosophy of theatre since Ibsen, with emphasis on American theatre.
Prerequisite: 26.415 or consent of the instructor.
- 26.490 SEMINAR: THEATRE** 3 sem. hrs.
A concentration may be offered on an individual artist, a period, or a movement in theatre.
Prerequisite: 9 semester hours in Theatre or consent of the instructor.

MASS COMMUNICATION
(Code 27)

- 27.115 CINEMA APPRECIATION †** 3 sem. hrs.
A course dealing with film form, theory and criticism to bring about a better understanding and greater appreciation of the motion picture.
5 hours/week: 3 class, 2 laboratory.
- 27.130 HISTORY OF THE FILM †** 3 sem. hrs.
An overview of the history of the motion picture. Film genres, historical figures, technicians, and performers studied. Course paper required.
Prerequisite: 27.115 or consent of instructor. 5 hours/week: 3 class, 2 laboratory.
- 27.225 MASS COMMUNICATION AND THE POPULAR ARTS †** 3 sem. hrs.
The study and relative impact on society and education in: television, radio, film, drama, press, advertising, cartoons, popular music, and photography.
- 27.231 INTRODUCTION TO RADIO AND TELEVISION †** 3 sem. hrs.
A survey of communication practices in radio and television. Laboratories in classroom.

- 27.300 THEATRE AS MASS MEDIUM** 3 sem. hrs.
A study of theatre and its influences on the masses. The theatre as a didactic, informative, pleasurable, and entertaining medium.
- 27.331 TV AND RADIO: BROADCAST PROGRAMMING AND MANAGEMENT** 3 sem. hrs.
A study of TV and radio management, programming and the media as a business.
- 27.332 PUBLIC RELATIONS** 3 sem. hrs.
Course examines P.R. in our social and economic fields. Basic theories and principles are studied.
- 27.333 PERSUASION IN ADVERTISING PRINT AND NON-PRINT MEDIA** 3 sem. hrs.
Advertising as persuasive communication. TV, radio and print and advertising are studied and analyzed.
- 27.335 BROADCAST JOURNALISM** 3 sem. hrs.
A study of the technical elements, script formats, and non-dramatic materials. Student learns to write and announce news, commercials, etc.
Prerequisite: 27.231.
- 27.338 TELEVISION ACTING AND DIRECTING** 3 sem. hrs.
Course provides instruction in acting and directing for TV. *Lab hours required.*
- 27.360 FILMMAKING I** 3 sem. hrs.
The course covers the entire basic process of filmmaking in an introductory and comprehensive manner. Maximum 5 clock hours per week.
Prerequisite: 27.115, 27.130.
Corequisite: 27.400: or consent of instructor.
- 27.361 FILMMAKING II** 3 sem. hrs.
Continuation of 27.360. The production of one or more sound films in 16mm format from screenplay to release print. Maximum 5 clock hours per week, plus "field" work by arrangement.
Prerequisite: 27.360, 27.460, or consent of instructor.
- 27.451 DESIGN IN ADVERTISING** 3 sem. hrs.
Deals with copy and layout of advertisements for magazines and newspapers. Principal emphasis is on design (TV and radio advertising included).
- 27.460 FILM THEORIES AND TECHNIQUES**
A comprehensive lecture and symposium investigating the theories of film and film language, film techniques, and the aesthetics of film images and sounds. Maximum 5 clock hours/week.
Prerequisite: 27.115, 27.130, 64 sem. hrs. or consent of instructor.
- 27.480 SEMINAR IN RADIO PRODUCTION AND WRITING** 3 sem. hrs.
Opportunity to study and practice all aspects of radio. Lab hours required.
Prerequisite: 27.335.
- 27.482 SEMINAR IN TELEVISION PRODUCTION AND WRITING** 3 sem. hrs.
Opportunity to study and practice all aspects of TV. Lab hours required.
Prerequisites: 27.335.

27.497 INTERNSHIP IN COMMUNICATION3-15 sem. hrs.
(max. 9 per sem.)

Open to Junior or Senior majors in Mass Communication. An off-campus work-study program to be arranged by the student, advisor and agency. All contacts regarding Internships must be made a) through their advisors, b) the chairperson of the Internship Committee, and c) must be submitted one month before the Internship is to start. Course may be repeated. Credit not to exceed 15 hrs.

8. SCHOOL OF BUSINESS**8.1 GENERAL INFORMATION**

The School of Business offers a curriculum in Business Administration with six options* for specialization, a curriculum in Business Education with five options for certification, and a curriculum in Office Administration.

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 and the curriculum in Office Administration prepares the student for administration and supervision of a business office.

Interested students should enroll in the School of Business as Freshmen. During the first year, the students pursue basic courses, after which they apply for admission to a specialized curriculum with the School.

Students who are admitted to other schools within the College and who later seek admission to the School of Business must have completed 15 semester hours of college credit at Bloomsburg and have earned a cumulative quality point average of 2.75 or higher.

8.2 PROGRAMS WITH MAJOR SPECIALIZATION IN THE SCHOOL OF BUSINESS

Program	Degree
BUSINESS ADMINISTRATION	B.S. in B.A.
Specialization: Accounting	
Computer and Information Science	
Economics	
Information Processing	
Management	
Marketing	
*Finance	<i>This area of specialization has been approved for implementation but has not yet been fully implemented. Courses will be added as resources become available.</i>
BUSINESS EDUCATION	B.S. in Ed.
Certification: Accounting	
Comprehensive (Accounting and Secretarial)	
Information Processing	
Marketing	
Secretarial	
Specialization: Office Administration	B.S.O.A.



BUSINESS ADMINISTRATION

FACULTY:

Professors: Alan D. Carey, James B. Creasy, Bernard C. Dill, Norman L. Hilgar (Chairperson), Francis J. Radice (Assistant Chairperson), Melvyn L. Woodward, William M. Young; Associate Professors: J. Weston Baker, Charles M. Bayler, Barbara E. Behr, Fred L. Bierly, Charles M. Chapman, Lester J. Dietterick, Harold K. Frey, Francis J. Gallagher, David G. Heskell, Robert N. Watts; Robert P. Yori, Assistant Professors: Patricia Boyne, John E. Dennen, E. Burel Gum, John E. Hartzel, Terry Jones, David Khalifa, Michael R. Lynn, Richard E. McClellan, Salim Qureshi.

Degree

The degree, Bachelor of Science in Business Administration, (B.S. in Bus. Adm.), is conferred upon successful completion of the Business Administration curriculum.

Objectives

The curriculum in Business Administration aims to develop in the student specialized knowledge and skills applicable to entry into the business world. It cultivates the potential for future growth leading to an eventual position of leadership. For this purpose the student is exposed to an understanding of modern business in its relationship to society, of economic forces, of the intellectual processes involved in management decision-making and of the modern decision-making tools. A concern for personal development in such attributes as intellectual discipline and culture is integrated into the general education and business courses.

Curriculum Requirements

The curriculum in Business Administration requires the successful completion of five sets of courses.

A. General Education (See Section 6.4)

B. Core Courses: Mathematics 53.114; Economics 40.246 or Mathematics 53.118 or 53.123; General Business 90.331; Accounting 91.221, 222, 323; Information Processing 92.250; Management 93.342, 343, 344, 445, 446; Economics 40.211, 212, 346.

C. Specialization in one of the following areas:

ACCOUNTING

General Business: 90.332;
Accounting: 91.321, 322, 421, 422, 423.

MANAGEMENT

General Business: 90.332; Information Processing: 92.252;
Management: 93.345, 444, 447.

BUSINESS ADMINISTRATION—ECONOMICS

Economics: 40.311, 312, 313; 422 or 423.

INFORMATION PROCESSING

92.252, 254, 350; 352 or 354, 452, 456.

MARKETING

93.440, 442, 443, 444, 452.

D. Elective courses to complete a minimum of 63 semester hours in business and economics, chosen from: Economics 40.313, 315, 346, 410, 422, 423, 433, 446; General Business 90.332; Accounting 91.421, 422, 423, 430, 448; Information Processing 92.252, 350, 352, 452, 454, 456; Management 93.341, 345, 346, 348, 442, 443, 444, 445, 447, 449, 455; History 42.223; Psychology 48.452; Speech 25.307.

E. **Free electives** as required to meet the total 128 sem. hr. graduation requirement.

FINANCE

An area of specialization in Finance has been approved for the Business Administration curriculum, but has not yet been fully implemented. Courses will be added as resources become available.

The courses presently offered in Finance are listed in the Catalog among the Management and Marketing courses which have a prefix number of 93, and designated with finance or investment in their titles.

COMPUTER AND INFORMATION SCIENCE

A. **General Education** (See Section 6.4)

B. **Core Courses:** Mathematics 53.271; two from the following: 53.118, 123, 125, 126; and either 53.141 or 53.241; Economics 40.211; Information Processing 92.250, 252, 256, 350, and 452.

C. **Specialized Courses:** Includes 15 sem. hrs. in Restricted Electives in Computer and Information Science courses chosen through consultation with an adviser.

D. **Elective Courses:** Includes 15 sem. hrs. from non-Computer and Information Science courses chosen through consultation with an adviser.

E. **Free electives** as required to meet the total 128 sem. hr. graduation requirement.

COURSE DESCRIPTIONS

General Business (Code 90)

90.101 INTRODUCTION TO BUSINESS

ORGANIZATION AND FINANCE

3 sem. hrs.

An introductory course which provides a study of business and its environment. This examination of how business is organized, the functional areas of business operation and their interrelationships, and the interaction of business with government and society enables the business student to develop a unified framework for subsequent in-depth study of specific aspects of business. For the non-business student, the course will help to develop an appreciation of the American enterprise system — the functions of and issues facing modern business.

90.241 SALESMANSHIP

3 sem. hrs.

The Salesmanship course includes a study of the principles of underlying the sales presentation; the interrelationships of the salesman; the worksetting, the goods distributed and sold and the customers served, and the application of sales principles, practices, and techniques from the preapproach through the closing of the sale.

90.331 BUSINESS LAW I

3 sem. hrs.

An introduction to legal rights and liabilities; sources of law and judicial system; principles of law applicable to business transactions with particular reference to contracts, property, and sales.

90.332 BUSINESS LAW II

3 sem. hrs.

Principles of law as they pertain to negotiable instruments, guaranty and surety contracts, insurance, principal and agency relationships, creditors rights.

Prerequisite: 90.331.

90.334 BUSINESS MATHEMATICS

3 sem. hrs.

Concepts and principles related to fundamental business operations. Credit, insurance, taxes, selling, finance, investments, and the interpretation of statistical data.

**90.404 PROFESSIONAL SEMESTER IN
BUSINESS EDUCATION****10 sem. hrs.**

Includes three major activities: (a) a brief orientation experience to observe the operation of the school and of specific classes, (b) approximately 8 weeks of participatory teaching experiences correlated with classroom studies, and (c) an 8-week period of full-time supervised student teaching. The course is correlated with Clinical Studies in Business Education which is scheduled concurrently with the Professional Semester.

90.406 CLINICAL STUDIES IN BUSINESS EDUCATION**5 sem. hrs.**

A competency-based seminar in methods and the principles and problems of Business Education. Activities center on principles of education for business teachers, methods of teaching business subjects, and strategies and problems of classroom teaching. Classroom discussions are closely correlated with the experiences of the Professional Semester in Business Education (90.404) which is taken concurrently with Clinical Studies.

90.431 INDEPENDENT STUDY IN BUSINESS**3 sem. hrs.**

Open to Seniors only. Topic and outline of Project must be approved by the Dean and the Chairperson of the department.

90.432 INTERNSHIP IN BUSINESS**1-15 sem. hrs.**

The Internship in Business provides the student with opportunities to acquire meaningful experiences in practical work situations in secretarial, accounting, management, finance, marketing, and related areas.

Prerequisite: Approval by Department Chairperson, Junior or Senior standing, and GPA of 2.75 or higher.

90.450 LEGAL ENVIRONMENT OF BUSINESS**3 sem. hrs.**

Impact of government administrative, legislative and judicial regulation on business activity at the firm, industry and market levels.

Prerequisite: 90.331

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 discussions of the standards of good accounting practice, with emphasis on current items.

Prerequisite: 91.222.

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.

91.323 ACCOUNTING FOR MANAGEMENT DECISION**3 sem. hrs.**

Management problems of depreciation methods, valuation of good will, hidden

balance sheet reserves, inventory valuation, 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: 91.222.

91.421 COST ACCOUNTING

3 sem. hrs.

An in-depth study of the three major production costs, raw material, labor, and factory overhead for a job order cost system.

Prerequisite: 91.321.

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, discussions of issues, practice in the solution of problems.

Prerequisite: 91.423.

91.430 ADVANCED ACCOUNTING I

3 sem. hrs.

Application of accounting principles to special problems found in the consolidation and merger of business enterprises. Includes consideration of the bases for such combinations; consolidated statements at date of acquisition, as well as at subsequent dates; foreign branches and subsidiaries.

Prerequisite: 91.322.

91.431 ADVANCED ACCOUNTING II

3 sem. hrs.

Application of accounting principles to special problems found in fiduciary relationships, governmental and institutional units, and actuarial science. Emphasis is given to bankruptcy, estates and trusts, government funds, and nonprofit service organizations.

Prerequisite: 91.322.

91.448 ADVANCED COST ACCOUNTING

3 sem. hrs.

A continuation of 91.421 concentrating on process cost, standard cost and budgets. Emphasis is placed on methods used to analyze and interpret cost data.

Prerequisite: 91.421.

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.

Prerequisites: 91.322, 421, 422, 423, or consent of instructor.

INFORMATION PROCESSING

(Code 92)

**92.250 INTRODUCTION TO COMPUTER AND
INFORMATION SCIENCE**

3 sem. hrs.

Introduction to the use of the computer for problem solving and processing of in-

formation. Includes hardware, programming concepts, flowcharting techniques, punched card processing and data communications. "Hands on" experience is available through the use of interactive time-sharing terminals.

92.251 MINI/MICRO PROGRAMMING SYSTEMS 3 sem. hrs.

This course will present a survey of the minicomputer and microcomputer capability available to the small business. It will focus on business applications and system design considerations applicable to Mini/Micro Programming Systems. Programming experiences in RPG II will be emphasized and experiences in BASIC appropriate to the MINI/MICRO environment will be explored.

92.252 BUSINESS ORIENTED PROGRAMMING 3 sem. hrs.

Designed to familiarize the student with the COBOL language and to develop the student's ability to use COBOL as an effective problem solving language. The student defines, writes, tests, debugs, and documents several COBOL problems.

Prerequisite: 92.250.

92.254 MANAGEMENT INFORMATION SYSTEMS 3 sem. hrs.

Use of computer-based information systems to provide information for effective decision making. Data base concept; data entry; operator-machine interaction; data retrieval concepts.

Prerequisite: 92.252.

92.256 DATA AND INFORMATION STRUCTURES 3 sem. hrs.

A detailed study of logical and physical operations and applications with character strings, linked lists, graphs and trees emphasizing techniques and mechanics of programming using PL11 as a high-level list processing language. Includes a study of file structure and data base concepts.

Prerequisite: 92.252 or 53.271.

92.350 ANALYTICAL COMPUTING CONCEPTS 3 sem. hrs.

Designed to present a detailed development of data representation and instruction word generation as used in assembler. Efforts will be directed to develop a further understanding of the computer including registers, storage, I/O, and the processor itself. Object code analysis through dumps will be explored with actual "hands on" programming experiences using Assembler Language.

Prerequisite: 92.252 or 53.271.

92.352 ADVANCED PROGRAMMING 3 sem. hrs.

Advanced concepts of programming in COBOL with major emphasis on table handling, Index Sequential Files, sub-routine linkage and real-time programming. Students are required to write, test, and debug programs.

Prerequisite: 92.252.

92.354 ADVANCED COMPUTER PROCESSES 3 sem. hrs.

A further examination of computer characteristics through Assembly Language. Topics include tables, lists, chained lists, queues, double-threaded chain lists, program selection and linking, physical level I/O, and macro-writing. Compiler construction is discussed.

Prerequisite: 92.350.

92.356 OPERATING SYSTEMS 3 sem. hrs.

An in-depth look at operating systems to include real and virtual operating systems and communications software and techniques. Includes diagnostic facilities, utility routines, and system commands.

Prerequisite: 92.350.

92.358 HARDWARE ARCHITECTURE AND CONFIGURATION 3 sem. hrs.

Includes an examination of the current market in frames, peripherals, terminals, data entry devices, minicomputers, etc. The student will gain additional practical experience in feasibility studies, cost analysis, and contract negotiations.

92.452 SYSTEMS ANALYSIS AND DESIGN 3 sem. hrs.

Basic systems analysis and design, forms design, data collection, data files, file maintenance, systems flow-charting, integration of systems, feasibility studies, systems implementation and documentation.

Prerequisite: 92.252.

92.456 MANAGERIAL COMPUTER APPLICATIONS 3 sem. hrs.

Practical experience in the analysis of business problems. Advanced techniques and concepts of programming and system analysis with major emphasis on record keeping systems, control systems, and management information systems. Students are required to present a systems proposal.

Prerequisite: 92.452.

MANAGEMENT

(Code 93)

93.341 RETAIL MANAGEMENT CONCEPTS 3 sem. hrs.

Presents retailing as a dynamic aspect of the marketing distribution system. Ultimate consumer/market analysis, store location, store layout, merchandising, pricing, promotional issues and problems, are considered, using retail cases.

Prerequisite: Econ 40.211, 40.212.

93.342 MARKETING: PRINCIPLES AND PRACTICES 3 sem. hrs.

A survey of the fundamental features of contemporary marketing systems and of the planning required to make available want-satisfying goods and services to customers at a profit. The role of marketing in society and the institutions which compose the market system. Components of the marketing mix — product planning, distribution, pricing and promotion.

Prerequisite: Econ 40.211 and 40.212.

93.343 PRINCIPLES OF MANAGEMENT 3 sem. hrs.

A study of financial problems in the areas of working capital management, capital budgeting, cost of capital, financial structure, financing sources, asset valuation, and dividend policy.

Prerequisite: 92.222, 40.211 and 40.212.

93.344 MANAGEMENT PROCESSES 3 sem. hrs.

Fundamentals of organization and administration. Classical, Behavioral and Management science schools; principles and practices in planning, organizing and controlling business activities; and operating functions in a business firm.

Prerequisite: 40.211, 212.

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.

93.346 LABOR AND INDUSTRIAL RELATIONS 3 sem. hrs.

Administration of the relationship between management and the labor force, both where the relationship is governed by a formal agreement and where it is not. Includes the development of the social and legal status of trade unions, the process of collective bargaining and the evolution of modern social welfare programs.

Prerequisite: Econ. 40.211 and 40.212.

93.348 OPERATIONS MANAGEMENT 3 sem. hrs.

An introductory course in operation problems encountered in manufacturing and service industries.

Prerequisite: 93.344.

93.430 SECURITY MARKETS 3 sem. hrs.

A study of stock and bond market operations, security exchanges, and brokerage firms; market and security price behavior; institutional and individual investors.

Prerequisite: 93.343.

93.440 CONSUMER MOTIVATION AND BEHAVIOR 3 sem. hrs.

The role of the consumer as the ultimate buyer of the product. Analysis of the strategy and forces directed at the consumer by the seller. Topics include: models of consumer-buying behavior, consumer motivation, impact of advertising on product, consumer as decision maker in the market place. Selected cases.

Prerequisite: 93.342.

93.441 INVESTMENT MANAGEMENT 3 sem. hrs.

Principles of security investments: descriptions of security investments; investment planning, security valuation; portfolio strategy; security markets. (*Summer Session only.*)

Prerequisite: 93.343, and permission of instructor.

**93.442 ADVERTISING MANAGEMENT:
ORGANIZATION AND PLANNING** 3 sem. hrs.

Advertising is considered as a marketing/promotional mix component and tool. Advertising strategy and copy media selection; budgeting; advertising research; relevant issues including social, legal and ethical concerns.

Prerequisite: 93.342.

93.443 SALES MANAGEMENT 3 sem. hrs.

The personal selling element of the marketing/promotional program is studied from a management perspective. Recruiting, selecting, training, organizing, motivating, compensating, evaluating and controlling the sales force are treated, as well as management's planning responsibilities including designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management.

Prerequisite: 93.342.

93.444 MARKETING MANAGEMENT 3 sem. hrs.

An advanced study of the marketing function and marketing programs from the systems and managerial viewpoint. Analytic, communicative, and problem-solving skills applied to evaluating and creative planning in the marketing environment. Business marketing cases are used as a vehicle for developing these marketing executive abilities.

Prerequisite: 93.342.

93.445 MANAGERIAL COMMUNICATIONS 3 sem. hrs.

Study of the process and structure of communication in the business organization and factors affecting the flow of information. Emphasis on verbal, non-verbal and written communication as they relate to managerial responsibility. Group discussion exercises and individual research and writing projects relate these principles to the attainment of proficiency in managerial communication.

93.446 STRATEGY AND STRUCTURE 3 sem. hrs.

Study of the process by which management set goals, objectives, policies, and procedures.

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 related to some field of Business Administration: accounting, finance, advertising, marketing, general and personnel management.

Prerequisite: Senior standing and consent of the instructor.

93.449 ORGANIZATION THEORY 3 sem. hrs.

A study of business organizations as social systems, and of the interactions between the individual, the group, and the organization.

Prerequisite: 93.344.

93.452 MARKETING RESEARCH 3 sem. hrs.

Development and application of the skills of the scientific marketing research procedure (problem definition, research design, data collection, analysis and interpretation) and recent developments in marketing information systems are brought to apply to product planning, advertising research, consumer and competitive analysis.

Prerequisite: Prerequisite: 93.342.

93.455 ADVANCED FINANCIAL MANAGEMENT 3 sem. hrs.

The study of business financial problems and the development of advanced financial management practices as used in the decision-making role of the financial manager.

Prerequisite: 93.353.

93.456 INTERNATIONAL MARKETING MANAGEMENT 3 sem. hrs.

Application of the managerial process to the development of international marketing programs. Emphasis is placed on the development and determination of objectives and methods of organization including the execution of research, advertising and distribution activities. Consideration is given to special problems of adopting marketing principles to fit conditions in different countries. Selected cases and readings.

Prerequisite: 93.342.

BUSINESS EDUCATION

FACULTY:

Professor: Ellen L. Lensing; Associate Professors: Ellen M. Clemens, Harold K. Frey; Clayton H. Hinkel; Margaret J. Long (Chairperson); Jack L. Meiss.

Degree

The degree, Bachelor of Science in Education (B.S. in Ed.), is conferred upon successful completion of the Business Education Curriculum.

Objective

The curriculum in Business Education aims at developing specialized knowledges and skills applicable to securing teaching positions in the 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 after which they apply for admission to the Business Education curriculum. High school work in business subjects is *not* prerequisite to the college program. The curriculum in Business Education offers five options for business teacher certification of which the student selects one.

Certification

Upon completion of the curriculum and recommendation of the College, the Pennsylvania Department of Education issues an Instructional Level I certificate. Every certificate shall include Typewriting in addition to at least one other area of certification; no certificate shall be issued bearing only one certification area.

Curriculum Requirements

The curriculum in Business Education requires the successful completion of five sets of courses.

A. General Education (See Section 6.4)

B. Core Courses: Speech 25.103; Economics 40.211, 212; Sociology 45.211 or Anthropology 46.200; Psychology 48.101; Mathematics 53.101; Educational Studies 60.393; General Business 90.101, 331, 332; Accounting 91.221; Information Processing 92.250; Secretarial 94.201, 202, 301 or 302, 401.

C. Business Education Certification Areas. The student chooses one of the following areas of certification in Business Education:

ACCOUNTING

General Business 90.334; Accounting 91.222, 321, 322; one course from 91.421, 422, 423, or 430; six semester hours of Restricted Business Electives; and three semester hours of Free Business Electives.

SECRETARIAL

Secretarial 94.211, 212, 311, 312, 333; six semester hours of Restricted Business Electives; and three semesters hours of Free Business Electives.

COMPREHENSIVE

(Accounting and Secretarial)

Accounting 91.222, 321, 322; Secretarial 94.211, 212, 311; General Business 90.334 or Secretarial 94.333; and three semester hours of Restricted Business Electives.

INFORMATION PROCESSING

Information Processing 92.252, 254 or 452; three additional semester hours from Information Processing electives; three semester hours of Restricted Business Electives; and three semester hours from either General Business 90.334 or an Information Processing elective.

MARKETING

General Business 90.241; Accounting 91.222, 321, 322; Management 93.341, 342, 440; and three semester hours of Restricted Business Electives.

D. Restricted Business Electives: General Business 90.241; Management 93.341, 342.

E. Professional Education: The student must have completed the following courses to become certified as a teacher of business subjects.

Psychology 48.271 Educational Psychology	3 sem. hrs.
Secondary Education 65.396 Curriculum and Instruction in the Secondary School	3 sem. hrs.
General Business 90.404 Professional Semester in Business Education	10 sem. hrs.
General Business 90.406 Clinical Studies in Business Education	5 sem. hrs.

F. Free Business Electives: Any course taught in General Business (90), Accounting (91), Information Processing (92), Management (93), or Secretarial (94) departments.

**Office Administration
(Business Education)**

Degree

The degree of Bachelor of Science in Office Administration (B.S. in O.A.) is conferred upon successful completion of the Office Administration curriculum which is designed for those students interested in the administration and supervision of the business office. This program does not lead to certification as a business teacher.

Objective

The Office Administration curriculum provides the management and office support skills necessary to supervise the administrative, organizational, and communicative functions of the business office.

Curriculum Requirements

The curriculum in Office Administration requires the successful completion of the following sets of courses.

- A. General Education:** (See Section 6.4), to include Speech 25.103; Economics 40.211, 212; Sociology 45.211 or Anthropology 46.200; Psychology 48.101; Mathematics 53.110 or 114.
- B. Business Core Courses:** General Business 90.101, 331, 332, 334; Accounting 91.221, 222; Information Processing 92.250.
- C. Office Procedure Courses:** Secretarial 94.312, 333, 401.
- D. Management Courses:** Accounting 91.323; Management 93.341, 342, 343, 345.
- E. Business Skill Courses:** Secretarial 94.201, 202, 211, 212, 301, 311.
- F. Internship in Business:** General Business 90.432 (three semester hours)
- G. Free Business Electives:** (six semester hours)

COURSE DESCRIPTIONS

**SECRETARIAL
(Code 94)**

- 94.201 TYPEWRITING I** **3 sem. hrs.**
Presentation and mastery of the keyboard and operating parts of the typewriter; stroking techniques and control; instruction in preparing personal and business letters, envelopes, carbon copies, reports, manuscripts, and tables; teaching techniques.
- 94.202 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 SHORTHAND I** **3 sem. hrs.**
Beginning course in Gregg Shorthand Diamond Jubilee.
- 94.212 SHORTHAND II** **3 sem. hrs.**
Development of ability to read shorthand notes.
Prerequisite: 94.211.

- 94.301 TYPEWRITING III AND TRANSCRIPTION** 2 sem. hrs.
Advanced application of typewriting skills. Coordinated with Shorthand III and must be scheduled concurrently with Shorthand III by students seeking certification in shorthand.
Prerequisite: 94.202.
- 94.302 TYPEWRITING III** 2 sem. hrs.
Advanced applications of typewriting skills. For students not enrolled in the Secretarial curriculum.
Prerequisite: 94.202.
- 94.303 TYPEWRITING WORKSHOP** 2-3 sem. hrs.
A workshop designed to provide for the varying needs of students with diverse backgrounds, especially transfer students. Material covered would depend upon individual student's background, prior coursework and needs.
- 94.311 SHORTHAND III** 3 sem. hrs.
Further development of the student's shorthand vocabulary through intensive dictation and transcription practice with speed and accuracy stressed; the non-shorthand elements of transcription such as spelling, punctuation, and rules of grammar are emphasized; and principles of teaching shorthand. Shorthand III must be scheduled concurrently with 94.301 by students seeking certification in shorthand.
Prerequisite: 94.212.
- 94.312 SECRETARIAL PROCEDURES** 3 sem. hrs.
Secretarial activities with emphasis on decision making and human relations. Simulated office situation.
Prerequisite: 94.311
- 94.333 BUSINESS CORRESPONDENCE AND REPORTS** 3 sem. hrs.
Review of essentials of grammar; study of the vocabulary of business; composition of various types of business letters; organization and preparation of business reports; teaching techniques.
Prerequisite: 94.202.
- 94.401 RECORDS MANAGEMENT AND OFFICE MACHINES** 3 sem. hrs.
Management of business records; filing methods and systems; office electronic, printing, rotary, calculators; transcribing machines; teaching techniques.
- 94.412 ADVANCED SHORTHAND WORKSHOP** 3 sem. hrs.
Dictation and transcription involving the use of different shorthand system — machine, symbol, and non-symbol. Development of a degree of proficiency in the use of a different shorthand system; techniques and methods of teaching shorthand on the high school level. *This course is not applicable toward shorthand certification.* (offered on a swing basis)
Prerequisite: 94.311.



9. SCHOOL OF PROFESSIONAL STUDIES

9.01 ORGANIZATION AND FUNCTIONS

The School of Professional Studies administers curricula in teacher education, nursing, and allied health sciences, offers the courses in elementary and secondary education, special education, communication disorders and nursing, and coordinates work in ROTC.

9.02 DEGREE PROGRAMS WITHIN THE SCHOOL OF PROFESSIONAL STUDIES

Program	Degree
Communications Disorders	B.S. in Ed.
Early Childhood Education	B.S. in Ed.
Elementary Education	B.S. in Ed.
Secondary Education	B.S. in Ed.
<i>Biology</i>	<i>General Science</i>
<i>Chemistry</i>	<i>German</i>
<i>Communications</i>	<i>Mathematics</i>
<i>Earth Sciences</i>	<i>Physics</i>
<i>English</i>	<i>Social Studies</i>
<i>French</i>	<i>Spanish</i>
Special Education (Mentally and/or Physically Handicapped)	B.S. in Ed.

9.03 TEACHER EDUCATION

9.03.1 GENERAL INFORMATION

Scope of Teacher Education

Programs are offered for preparation of teachers for elementary schools, of academic subjects in secondary schools, in special education, communication disorders and 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.

Aims

The teacher education program at Bloomsburg State College is committed to improving the field of education through a comprehensive program which recognizes its unique contributions to society, both as a reflection of that society and as an agent for the improvement of society. To meet this obligation, the program draws upon the knowledge and understandings of general as well as of professional education and strives constantly to blend the two in preparing a person who exhibits those qualities of human and technical competence necessary to fulfill a role in society as an informed, inquiring, and skilled professional.

More specifically, the teacher education staff provides:

the basic academic preparation for persons to acquire a depth and breadth of knowledge in both general and specialized studies;

the basic training to insure mastery of the specific skills necessary for competent functioning as a professional;

the opportunity for the continued growth of professional educators through formal programs of advanced study related to their particular field of interest;

the opportunity for further enrichment within the individual's area of professional competence through a regular program of speakers, seminars, and related activities;

the human and physical resources necessary to assist in the educational development and growth of the community served by the College; and the means for the advancement of knowledge through research in specific areas of education.

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.).

Accreditation of Teacher Education

The College is accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Council on Education of the Deaf. The teacher education programs outlined in this bulletin have been approved for teacher certification by the Pennsylvania Department of Education.

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).

The programs offered for Level I certification are:

Elementary Education (Kindergarten through grade 6).

Early Childhood Education (Preschool through grade 3).

Business Education — Accounting, Secretarial, Business Information Processing, General.

Secondary Education — Biology, Chemistry, Communication, Earth Science, English, French, General Science, German, Mathematics, Physics, Social Studies, Spanish.

Special Education — Mentally and/or Physically Handicapped.

Communication Disorders — Speech Correction or Hearing Impaired.

Public School Dental Hygienist

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 following states which are parties to the agreement:

ALABAMA	MARYLAND	RHODE ISLAND
ALASKA	MASSACHUSETTS	SOUTH DAKOTA
DELAWARE	NEBRASKA	UTAH
DISTRICT OF COLUMBIA	NEW HAMPSHIRE	VERMONT
HAWAII	NEW JERSEY	VIRGINIA
IDAHO	NORTH CAROLINA	WASHINGTON
INDIANA	OHIO	WISCONSIN
KENTUCKY	OKLAHOMA	

Graduates of Pennsylvania approved programs seeking certification in another state should write to the teacher certification office of the state in which certification is desired for application forms and instructions. Names and addresses of the appropriate officials should be available in most college placement office libraries.

Admission to Teacher Education

Students who wish to take teacher education curricula enroll initially in the School of Professional Studies and 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. 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 the applicant to assess his/her 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. If students who were initially enrolled in the School of Professional Studies are not admitted to teacher education, they are transferred to the School of Arts and Sciences.

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 reasons. If candidacy is revoked but the student is otherwise eligible to remain in the College, he/she is transferred to the School of Arts and Sciences; in this case the student who wishes to be reinstated must reapply for admission to teacher education.

Field Experience

Students in teacher education are required to engage in the 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 students decide before the Junior year whether they wish to follow careers 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, and 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.

Undergraduates who have satisfied the prerequisites for student teaching courses 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 equal 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 may be assigned to central Pennsylvania, to suburban Philadelphia, or to certain inner-city locations. Students in secondary education may be assigned to teach in central Pennsylvania, in 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 communication disorders and special education are assigned to the White Haven Center, Selinsgrove Center, and to public schools and other agencies located in southeastern Pennsylvania.

It may be possible for students in teacher education programs to be assigned to do their student teaching in one of the centers abroad with which Bloomsburg cooperates: Quito, Ecuador; Recife, Brazil; or Liverpool, England. Further information about this program may be obtained in the Office of International Education.

9.04 ALLIED HEALTH SCIENCES

(Dr. James E. Cole, Program Coordinator)

The allied health sciences encompass those health areas in which individuals support, aid, and increase the efficiency and effectiveness of the physician, dentist, and professional nurse.

The curricula offered at Bloomsburg State College include: medical technology, radiologic technology, health services associate, dental hygiene, pre-occupational therapy, pre-physical therapy and pre-cytotechnology. Completion of these programs involve clinical education and experience — usually away from the college campus. The college offers degrees for the first four curricula, i.e., B.S. in Medical Technology, B.S. in Radiologic Technology, A.S. in Health Services, and B.S. in Education for Dental Hygienists.

9.04.1 MEDICAL TECHNOLOGY CURRICULUM

Dr. Donald D. Rabb, Curriculum Coordinator)

The Medical Technology program consists of 98 semester hours of courses prescribed by the College, followed by one year of clinical study and experience in a National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) approved School of Medical Technology. Bloomsburg State College has formed affiliations with: Abington Memorial Hospital, Abington, PA; Geisinger Medical Center, Danville, PA (major affiliate); Lancaster General Hospital, Lancaster, PA; Robert Packer Hospital, Sayre, PA; Sacred Heart Hospital, Allentown, PA; St. Joseph's Hospital, Reading, PA; Wilkes-Barre General Hospital, Wilkes-Barre, PA; Williamsport Hospital, Williamsport Hospital, Williamsport, PA; Medical College of Pennsylvania & Hospital, Philadelphia, PA; Harrisburg General Hospital, Harrisburg, PA; and Divine Providence Hospital, Williamsport, PA. Affiliations pending; Polyclinic Medical Center, Harrisburg, PA and Allentown Sacred Heart Hospital Center, Allentown, PA.

Students enrolling in the curriculum leading to a Bachelor of Science in Medical Technology will be admitted under the same policy governing other applicants to Bloomsburg State College. These requirements may be found under Admission and Readmission (Chapter 4).

The student enrolls initially in Preprofessional Studies and follows the list of courses prescribed in the Medical Technology program. Application for transfer to the School of Professional Studies and formal admission to Medical Technology may be made after the student has earned 30 semester hours of credit and before the completion of 64 semester hours.

Assistance in making application for admission to the clinical year program is offered by the College, but admission is determined solely by the hospital. Since more students currently apply for admission to clinical year programs than the Schools of Medical Technology can accommodate, the College cannot guarantee that all students will be accepted for the clinical year experience. In general, students with the highest academic achievement and those who appear in their interviews to have genuine interest in the field, are given priority by the Schools of Medical Technology. Most of the schools offering Medical Technology programs charge a tuition of \$600 or more. The college does not charge tuition during the clinical year.

All students who successfully complete all of the college requirements and the clinical year program shall receive the Bachelor of Science degree. All clinical year graduates will become eligible to take the certification examination for medical technologists. Upon successfully completing this examination, the student will be awarded his/her certificate and be entitled to use the designation M.T. (ASCP) after his/her name.

A student who fails to gain admission to a clinical program at the end of the junior year may return to the College to complete the requirements for a baccalaureate degree or may take a leave of absence (See Section 4.12) to preserve his right to return later. Ordinarily the student can complete the Bachelor of Arts curriculum in Biology in one additional year; other curricula may require more time. Students who are on leave, as well as those who continue their studies, are eligible to reapply for admission to the clinical year program.

The course requirements of the Medical Technology Program are:

A. General Education (See Section 6.4)

B. Specialization

Biology: 50.107; 50.210; 50.332 or 333; 50.371 or 472; 50.342; 50.343. Recommended 50.364.

Chemistry: 52.101* and/or 52.102, 52.113, 52.122, 52.211 and 52.233 or 52.231 and 52.232; 52.233.

Mathematics: 53.111 or 141.

Physics: 54.107.

Elective courses to complete at least 98 semester hours.

C. Clinical Experience

Medical Technology: 89.400

Certification of the clinical experience and registry examination is accepted for the final 30-32 semester hours of the 128 semester hour graduation requirement.

The following is a list of courses offered at most of the hospitals and medical centers with whom Bloomsburg State College is affiliated:

Clinical Chemistry	Coagulation
Hematology	Microbiology
Serology	Blood Bank
Immunology	Urinalysis

Nuclear Medicine

*52.101 may be waived through satisfactory score on a placement examination administered by the Department of Chemistry.

9.04.2 Radiologic Technology Curriculum

Radiologic technologists are allied health professionals having expertise in the operation of x-ray equipment and the preparation of patients for various diagnostic procedures. Recent trends indicate that many clinically educated technologists will pursue managerial or teaching roles within their disciplines.

In order to meet the varying needs of radiologic technologists, the program offers the prospective student a means of entering Bloomsburg State College at one of two entry levels: advanced entry for those already possessing certification as radiologic technologists (RT); and freshman (generic) entry for those wishing to pursue the baccalaureate degree through a cooperative arrangement established between Bloomsburg State College and the Geisinger Medical Center, Danville, Pennsylvania. Regardless of the entry level selected, students are required to select a group of courses comprising either a management core or an education core.

For those entering at the advanced level, 60 credits are awarded for satisfactory completion of a twenty-four month AMA approved program and the passing of the A.R.R.T. examination. The required courses are shown below. It is assumed that most advanced level students will be part-time and, hence, require a longer period to complete their program than two years. At least 64 credits must be taken at a four-year college or university and 32 of them must be at Bloomsburg State College. The minimum number of credits for graduation is 128.

The curriculum for the generic entry students is placed in a 4 year, 1-2-1, framework with the Geisinger Medical Center radiologic curriculum encompassing the middle two years. Admission into the Geisinger Medical Center two-year phase is not guaranteed and is severely limited. Likely, fewer than ten students will be admitted into the clinical phase. Each student entering the generic level is apprised of the possibility that he/she may not be accepted into the second and third year phase and, hence, alternate careers should be considered. All of the first year course work is applicable to a variety of alternate curricula. Assistance in making application for admission to the clinical phase is offered by the College, but admission is determined by the Medical Center. In general, students with the highest academic achievement and those who appear in their interviews to have genuine interest in the field, are given priority.

A. General Education, excluding Phys. Ed. (See Section 6.4)

B. Specialization

Bio/Allied Health Sciences: 50.210 and 50.371

Chemistry: 52.101 or 102, 52.113

Mathematics: 53.113 or 53.123, and 53.141

Psychology: 48.101

C. Core Courses (either management or education)

Management: 91.221, 92.250, 93.344, 93.345 and 93.446

Education: 60.301, 60.311, 60.391 or 48.271, 60.393, 60.421

D. Professional Requirement

For advanced entry students, 60 credits awarded for satisfactory completion of a 24 month AMA approved program in R.T., and the passing of the A.R.R.T. examination. Generic entry students earn 60 credits by completing a two year clinically-oriented program at Geisinger Medical Center, and passing the A.R.R.T. examination.

9.04.3 Health Services Associate Curriculum

This degree program is available to health workers who have obtained clinical education from an accredited health agency and who desire additional education in communicative and leadership skills while complementing their clinical backgrounds. Its initiation was encouraged by the fact that many certified

health workers are now being strongly encouraged to continue their education in a collegiate setting. Also, the role of the health worker has expanded to include greater responsibility in the hospital and nursing home setting, as well as a more substantial commitment to community health. Health workers who may wish to enter the program include: medical laboratory technicians, licensed practical nurses, histologic technicians and laboratory assistants, i.e. those workers who have satisfactorily completed the equivalent of one year's clinical education.

The curriculum for the health service associate is shown below. It is assumed that most students will be taking courses on a part-time basis and, hence, require a longer period of time to complete the program than two years.

Students are eligible to become candidates for the associate degree when they have satisfactorily completed 22 credits of course work (maintained a 2.0 G.P.A. or better) and show proof of satisfactory completion of a clinical program. Awarding of this associate degree is contingent upon being accepted for candidacy and completion of the program while maintaining academic good standing. Transfer credits from other accredited institutions are, of course, accepted, but at least 15 credits must be from Bloomsburg State College.

A. General Requirements (51 credits)

English: 20.101 and 20.201

Mathematics: any one of seven courses from 53.101 to 53.141

Speech: 25.103

Sociology: 45.211

Psychology: 48.101, 48.211 or 210, 48.251 and 48.311.

Chemistry: 52.101 and 52.113

Bio/Allied Health Sciences: 50.107, 50.173, 50.174 and 50.342

Also a course in Nutrition (82.203), Health Care Management or its equivalent (93.344) and an Elective.

B. Professional Requirements (12 credits)

Proof of certification or licensure as a health worker.

9.04.4 Curriculum for Dental Hygienists

The degree, Bachelor of Science in Education, will be conferred upon dental hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Education. (The professional education requirements for dental hygiene are the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty hours each week, or its equivalent in and graduation from a dental hygiene school approved by the State Dental Council and Examining Board.)
2. The satisfactory completion in addition thereto of 70 credit hours of professional and general education courses distributed as follows:

A. General Requirements (48 hours)

English 20.101, 200 or 201

Speech 25.103;

Geography 41.101, 102;

Geography, 41.101, 102;

Sociology 45.211 or Anthropology 46.200;

Literature, two electives, Speech, one elective; Art, one elective; Music, one elective; Political Science, one elective; Economics, one elective; History, two electives in World History, one in U.S. History.

B. Professional Education (11 hours)

Psychology 48.101, 271;
 Education 60.393;
 Education 60.301

C. Free Electives as necessary to complete the minimum of 70 semester hours.

9.04.3 Pre-Occupational Therapy, Pre-Physical Therapy Curricula

Although requirements for admission to professional schools of physical and occupational therapy vary, the student is advised to take one year of work in each of chemistry, physics, mathematics, and biology. Entrance into professional schools usually follows two to four years of undergraduate preparation, hence, the student is encouraged to design a program which may lead to a baccalaureate degree at Bloomsburg State College.

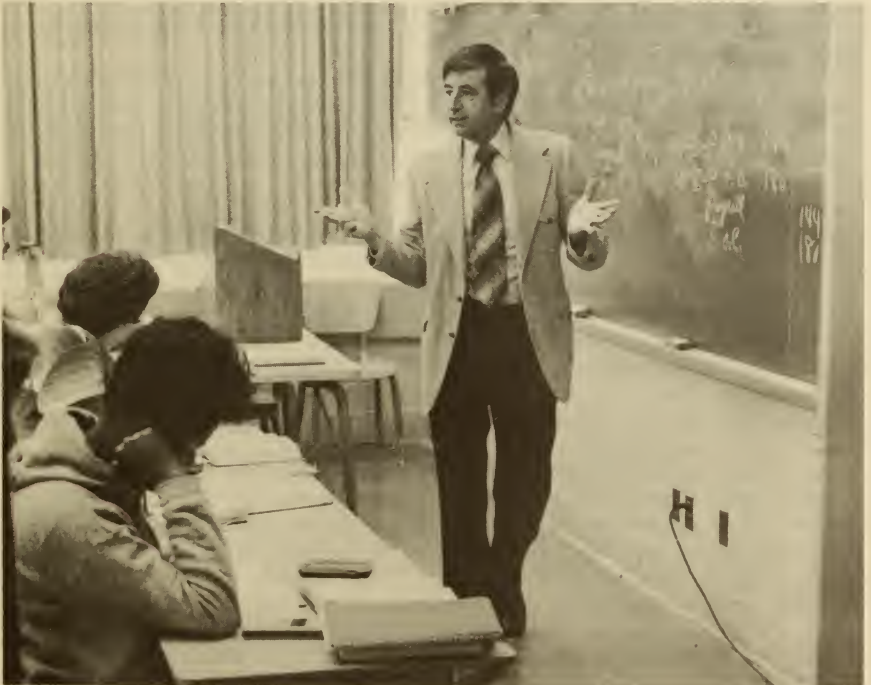
9.04.4 Pre-Cytotechnology Curriculum

Prior to acceptance into an AMA-approved educational program for cytotechnologists, the applicant is required to have completed two years of work in an accredited college or university. The pre-cytotechnology curriculum at Bloomsburg State College is concentrated in the biological sciences.

9.04.5 Public School Nursing Curriculum

(Mr. Robert Bunge, Curriculum Coordinator)

This curriculum is being phased out. No new students are admitted, but current active students who maintain continuous enrollment or who return at the end of an official leave of absence will be permitted to complete the work as outlined in the 1974-75 catalog.



COMMUNICATION DISORDERS

FACULTY

Professors Gerald W. Powers (Chairperson), Robert J. Kruse; Associate Professors Benjamin S. Andrews, G. Donald Miller; Assistant Professors Ronald R. Champoux, Judith Hirshfeld, Samuel B. Slike, Julia M. Weitz; Instructor Catherine M. Constable; Clinical Director, Richard M. Angelo.

Program Description

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 in the Curriculum in Communication Disorders are required to complete the master's degree before they are eligible for recommendation by the College for certification. (The requirements for the master's degree appear in the Graduate Catalogue.)

Admission to the undergraduate curriculum in Communication Disorders is selective. Students must take a minimum of nine semester hours in courses of the Department of Communication Disorders before they may apply for admission. The normal time for application by regular students is in the middle of the sophomore year. Transfer students, readmitted students, graduate students in Communication Disorders who have undergraduate deficiencies and students who are reapplying for admission compete on equal terms with regular students at each selection period.

Selection within the quota for each selection period is determined by ranking the product of Quality Point Average in the courses that have been taken in the Department of Communication Disorders; and the Cumulative Quality Point Average. Other professional factors determine the selection in case there is a tie in the measure — in this case the decisions are made by the faculty of the Department.

The precise quota for each selection period is predetermined by the Department in the light of the projected capacity of clinical facilities, subject to a maximum of thirty-five students to be admitted each year. Students who are not admitted may reapply at a subsequent selection period.

An area of concentration in Education of the Hearing Impaired exists for students in Elementary Education. These courses may also be taken by students in Secondary Education, Special Education and Early Childhood Education. Students who elect this sequence may seek advisement from the faculty of the Department of Communication Disorders. Students who complete the courses of the area of concentration in addition to their teacher education major are eligible to compete for admission to the graduate program in Education of the Hearing Impaired. The requirements for the master's degree appear in the Graduate Catalogue. Upon successful completion of the curriculum and recommendation by the College, certification in Education of the Hearing Impaired is granted by the Pennsylvania Department of Education and the Council on Education of the Deaf. The Education of the Hearing Impaired program is approved by the Council on Education of the Deaf and the Pennsylvania Department of Education. Admission to the undergraduate area of concentration is not governed by a

quota. The only restriction for the area of concentration is enrollment in Special, Elementary, Early Childhood or Secondary Education.

CURRICULUM IN COMMUNICATION DISORDERS

(*Mr. Ronald Champoux, Curriculum Coordinator*)

A. General Education (See Section 6.4)

B. Professional and related requirements. Communication Disorders: 74.152, 251, 252, 253, 276, 351, 352, 376, 402, 460, 461, 467; English: 20.311; Biology: 50.366
Fifteen semester hours elected with departmental approval from: 74.201, 205, 300, 390, 403, 452, 466, 472, 480, 48.101, 211, 260, 321, 375, 416, 70.101, 255, 20.411, 46.440.

C. Elective courses to complete the minimum graduate requirement.

D. Graduate Program: See Graduate Bulletin

COURSE DESCRIPTIONS

(Code 74)

74.101 CLINICAL VOICE AND ARTICULATION 1 sem. hr.

Voice production and articulation; individualized guidance with personal speech problems. A clinical experience planned for any student who seeks to improve his/her voice and articulation.

74.152 INTRODUCTION TO COMMUNICATION DISORDERS 3 sem. hrs.

An introduction to the study of human communication and communication disorders: the role of professionals in speech and language pathology and education of the hearing impaired; basic processes and functions of human communication, typical problems of children and adults.

74.251 PHONETICS 3 sem. hrs.

A study of the physiological, acoustical, perceptual, and descriptive aspects of speech and sound production. Primary emphasis is placed on the description, classification, and transcription of speech sounds (following the IPA) presented in isolation, in words, and in connected speech. This course provides a base of knowledge for the diagnosis and treatment of phonemic and phonological disorders of communication.

Prerequisites: 74.252, 253.

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: 74.152, 251.

74.253 SPEECH PATHOLOGY II 3 sem. hrs.

Continuation of detailed study of the speech and language pathologies. Research findings are explored.

Prerequisite: 74.252

74.351 CLINICAL METHODS IN COMMUNICATION DISORDERS 6 sem. hrs.

Materials and methods applicable to clinical practicum are discussed. Opportunities for observing demonstrations by the staff are provided. Students are trained in differential diagnostic procedures and the administration of speech and language therapy programs.

Prerequisite: 74.251, 252, 253 and admission to major. 74.467 concurrent registration.

74.352 CLINICAL PRACTICUM: COMMUNICATION DISORDERS 6 sem. hrs.

Students engage in supervised clinical work in the Speech, Hearing and Language

Clinic or related facilities and are given increasing responsibility and experience with cases of greater complexity.

Prerequisite: 74.351, 467.

74.390 DIRECTED PROJECT IN COMMUNICATION DISORDERS 3 sem. hrs.

Students are given the opportunity to carry out special in-residence or field projects in professional service programs under the direction of the faculty or designated practitioners. A detailed project plan must be submitted for faculty approval prior to registration.

74.402 CLINICAL FIELD EXPERIENCE 12 sem. hrs.

A full semester program of 30 hours per week of supervised practicum in a field experience is provided for each student. Prospective speech and hearing clinicians gain experience by working with professional people in the field. Assignments emphasize providing speech and hearing services in the public school, clinics and hospitals.

74.452 ANATOMY OF SPEECH AND HEARING MECHANISMS 3 sem. hrs.

Embryology, anatomy, enurology, and physiology of the larynx and ear. The processes involved in human speaking and hearing are explored.

74.460 PSYCHOLINGUISTICS 3 sem. hrs.

The study of language as a psychological phenomenon. Included are the following areas of study: language acquisition, meaning, biology of language, sociolinguistics, non-verbal communication, animal communication, and the application of psycholinguistics to communication disorders, among others.

Prerequisites: 74.512, 251.

74.461 CLINICAL PROBLEMS IN COMMUNICATION DISORDERS 3 sem. hrs.

Practical considerations of day to day problems encountered by the speech clinician in public school, clinics and hospital programs; Pennsylvania School Law and State mandated special service programs.

74.466 ADVANCED CLINICAL PRACTICUM (Internship) 3 sem. hrs.

Clinical experience with more complex disorders. 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.

Prerequisite: 74.351, 352.

74.467 APPLIED BEHAVIOR ANALYSIS IN SPEECH AND LANGUAGE THERAPY 3 sem. hrs.

Applications of the psychology of learning to communicative behavior and clinical problems. Current educational and therapeutic trends and practices.

Prerequisites: 74.351 or concurrent registration.

74.471 SEMINAR IN SPEECH PATHOLOGY 3 sem. hrs.

Pathological conditions resulting in communication problems are investigated; remedial techniques are considered in relation to current research findings.

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.

CURRICULUM IN EDUCATION OF THE HEARING IMPAIRED

(Mr. Samuel Slike, Curriculum Coordinator)

A. General Education. (See Section 6.4)

B. Professional and related requirements. Teacher Education Major

C. (Area of Concentration): 74.201 (fall-freshmen), 276 (fall-sophomore), 376 (spring-sophomore), 205 (spring-junior), 251 (spring-junior).
Electives: 74.300, 403.

D. Graduate Program: See Graduate Bulletin

COURSE DESCRIPTIONS

(Code 74)

74.201 HISTORY, EDUCATION AND GUIDANCE OF THE HEARING IMPAIRED

3 sem. hrs.

The handicap of hearing impairment is explored with emphasis in the history of educational procedures and guidance in communicative, psychological and vocational rehabilitation.

74.205 INTRODUCTION TO INSTRUCTIONAL METHODS FOR THE HEARING IMPAIRED

3 sem. hrs.

Students are introduced to the design of instructional procedures and methods of implementing curriculums for education of the hearing impaired. Traditional and innovative approaches to teaching are discussed and demonstrated.

74.300 EXPERIENCE IN EDUCATION OF THE DEAF AND HEARING IMPAIRED

1-3 sem. hrs.

Experience working under supervision with deaf and hearing impaired children in the demonstration classroom or field facility.

Prerequisite: Permission of the instructor.

74.403 INTRODUCTION TO MANUAL COMMUNICATION FOR THE HEARING IMPAIRED

3 sem. hrs.

A study of basic sign language vocabulary and fingerspelling techniques used in communicating with hearing impaired individuals. Emphasis is placed on developing proper receptive and expressive skills — required for an effective communication process to occur.

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.

CURRICULUM IN AUDIOLOGY

(*Mr. G. Donald Miller, Curriculum Coordinator*)

A. General Education. (See Section 6.4)

B. Professional and related requirements. Communication Disorders: 74.152, 251, 252, 253, 376, 351, 353, 376, 402, 460, 461, 467; English: 20.311; Biology: 50.366
Fifteen semester hours elected with departmental approval from: 74.302, 390, 452, 466, 472, 480, 48.101, 211, 260, 321, 375, 416, 70.101, 255, 20.411, 46.440.

C. Elective courses to complete the minimum graduate requirement.

D. Graduate Program: See Graduate Bulletin

COURSE DESCRIPTIONS

(Code 74)

74.276 INTRODUCTION TO AUDIOLOGY

3 sem. hrs.

Causes, evaluation techniques, and rehabilitative procedures for various types of hearing problems; related auditory, speech, psychological, and educational factors; the roles of parent, educator, and specialist in the rehabilitation program. Hearing conservation procedures in schools and industry.

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.

74.472 MEASUREMENT OF HEARING LOSS

3 sem. hrs.

The anatomy and physiology of the hearing mechanisms. Etiology of hearing losses, interpretation of audiometric evaluations and available rehabilitative procedures. Laboratory experience in the administration of clinical audiometric evaluations. Emphasis on special tests and advanced audiometric procedures.

Prerequisite: 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. Application of principles of speech science to speech therapy and other areas.

Prerequisites: 74.152, 251, 253, 276, 376.

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

FACULTY:

Professors Donald Miller, Ann Marie Noakes, William O'Bruba (Chairperson), Donald Vannan, Lynn Watson, William Woznek; Associate Professors John Hranitz, Edward Warden, Henrietta Behrens, Charlotte Hess, Gorman Miller; Assistant Professors Richard Donald, Robert Remaely.

Two curricula are offered, a curriculum leading to certification for kindergarten through grade 6 (designated K-6) and a curriculum in Early Childhood Education which leads to certification for Nursery School, Kindergarten and Grades 1-3 (designated N-K-3). The requirements of these two curricula are as follows:

EARLY CHILDHOOD

(Dr. John Hranitz, Coordinator)

A. General Education. (See Section 6.4)

B. Academic Background Courses: Mathematics, 6 semester hours; Biology, 3 semester hours; Physical Science, 3 semester hours; nine semester hours in Psychology and Social Studies elected from three of the disciplines listed in Section 6.4, including at least three semester hours in English.

C. Professional Education and Early Childhood Education Specialization:

PSYCHOLOGY

- 48.101—General Psychology
- 48.211—Developmental Psychology
- 84.271—Educational Psychology, or 60.391, Learning for the Learner

N-K-3 (Early Childhood Certification) EDUCATION (Required)

- 60.393—Social Foundations of Education of 60.394 Education in an Urban Society
- 60.301—Education Media
- 63.303—Methods and Materials in Elementary Science N-K-3
- 62.231—Introduction to Early Childhood Education
- 62.322—Seminar in Learning Experiences with Young Children
- 62.371—Teaching of Reading (Early Childhood Section)
- 62.373—Diagnostic and Remedial Reading (Early Childhood Section)
- 62.433—Communicative Arts in Early Childhood
- 62.432—Social Studies in the Elementary School
- 62.396—Mathematics for the Young Child
- 62.401—Student Teaching in Elementary and Early Childhood Education
- 62.411—Professional Seminar: Elementary and Early Childhood Education

ELECTIVES

(15 semester hours must be elected from the following courses:)

- 20.351—Literature for Children
- 25.318—Creative Dramatics
- 26.319—Children's Theatre
- 32.275—General Crafts
- 35.242—Class Piano I
- 35.311—Music in the Elementary School
- 48.321—Psychological Tests and Measures or 60.311 Educational Measurements

- 45.336—Child Welfare
- 62.375—Reading for the Socially Disadvantaged Child
- 62.376—Language Experiences for Children
- 62.389—Individualizing Instruction Activities in the Elementary School
- 70.201—Education of Exceptional Children
- 62.310—Fine Arts in Elementary Education
- 62.480—A Study of Discipline in the Elementary School
- 05.311—Methods and Materials in Elementary Physical Education
- 30.305—Children's Art

D. Area of Concentration. Area of concentration is optional. The statement relative to the area of concentration in the K-6 curriculum is applicable here.

E. Free Electives if necessary to complete the minimum graduation requirement.

ELEMENTARY EDUCATION Kindergarten Through Grade 6

*(Dr. William O'Bruba, Elementary and Early Childhood
Curriculum Coordinator)*

A. General Education. (See Section 6.4)

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; General Science, 3 semester hours; 12 semester hours elected from three of the disciplines listed as Social Science in Section 6.4; 15 semester hours elected from at least three disciplines listed as Humanities in Section 6.4, including at least 3 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

- 48.101—General Psychology
- 48.211—Developmental Psychology
- 48.271—Educational Psychology, or 60.391, Learning and the Learner

EDUCATION (required)

- 60.393—Social Foundations of Education or 60.394 Education in an Urban Society
- 35.311—Music in the Elementary School
- 05.311—Methods and Materials in Physical Education
- 48.321—Psychological Tests and Measures or 60.311 Educational Measurements
- 62.371—Teaching of Reading
- 62.373—Diagnostic and Remedial Reading or 62.375 Reading for the Socially Disadvantaged Child
- 62.302—Methods and Materials in Elementary School Science
- 62.398—Methods and Materials in Elementary Mathematics
- 62.395—Curriculum and Instruction
- 62.301—Education Media
- 62.401—Student Teaching in Elementary and Early Childhood Education
- 62.411—Professional Seminar: Elementary and Early Childhood Education

ELECTIVE

(Nine semester hours must be elected from the following courses)

- 62.304—Practical Procedures and Practices in Environmental Education for the Elementary School Teacher
 62.310—Fine Arts in Elementary Education
 62.322—Seminar in Learning Experiences with Young Children
 62.376—Language Experiences for Children
 62.389—Individualizing Instruction Activities in the Elementary School
 62.480—A Study of Discipline in the Elementary School
 20.351—Literature for Children
 25.318 Creative Dramatics
 25.319 Children's Theatre
 05.320 Health and Safety in the Elementary School

D. Area of Concentration. Each student is required to select an area of concentration in which he/she takes eighteen semester hours.

The selection of courses for the area of concentration is subject to advisement by the department and approval by the student's curriculum adviser.

The area of concentration has no significance for teacher certification.

E. Free electives if necessary to complete the minimum graduation requirement of 128 semester hours.

COURSE DESCRIPTIONS

(Code 62)

Courses marked † may be used for General Education

**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. The three major national programs of AAAS, SCIS, and ESS; individualized instruction; the "discovery" approach. A programmed textbook is used through which the student may move at his or her own rate of speed.

Prerequisite: 3 Semester hours in biology and 3 semester hours in physical science.

**62.303 METHODS AND MATERIALS IN
ELEMENTARY SCIENCE N-K-3** 3 sem. hrs.

Classroom activities from American schools and British Infant School programs; discovery method is stressed.

**62.304 ENVIRONMENTAL EDUCATION
FOR THE ELEMENTARY SCHOOL TEACHER** 3 sem. hrs.

Learning experiences for the elementary school level; integration of the topic with other curriculum areas.

62.310 THE FINE ARTS IN ELEMENTARY EDUCATION 3 sem. hrs.

Designed to provide competencies in the selection and implementation of materials and procedures for teaching the literary, visual, and performing arts to elementary school children. Emphasis is placed on the comprehension and integration of the fine arts into all areas of the school curriculum.

62.321 INTRODUCTION TO EARLY CHILDHOOD EDUCATION † 3 sem. hrs.

An examination of the historical and philosophical foundations of Early Childhood Education. Analysis of current trends and practices for teaching children from the ages of birth to six. Open to students of all curricula and in-service teachers.

Prerequisite: 48.201 and 48.211.

- 62.322 SEMINAR IN LEARNING EXPERIENCES WITH YOUNG CHILDREN** 3 sem. hrs.
Physical, mental, emotional and social levels of children from birth to age 6, with attention to environmental factors that foster child growth; pre-school and kindergarten programs to meet the needs of this age child and to provide the background of experience needed for later ventures into reading, arithmetic, science, social studies, music, art, literature, physical education and health.
Prerequisite: 48.101 and 48.211.
- 62.370 READING FOR YOUNG CHILDREN, N, K-3** 3 sem. hrs.
Developmental reading from readiness through the entire elementary school curriculum.
- 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: 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.
- 62.376 LANGUAGE EXPERIENCES FOR CHILDREN** 3 sem. hrs.
Language development of children and factors that influence skill in effective communication development from nursery school through sixth grade. The course is also designed to provide a background for students in language arts and literature for children.
- 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, mathematics centers, science centers, and social studies centers. British elementary education; elementary education in North Dakota and Vermont.
- 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: 6 sem. hrs. in mathematics
- 62.396 MATHEMATICS FOR THE YOUNG CHILD** 3 sem. hrs.
An activities-centered course designed for the teachers of children to age nine.
Prerequisite: 53.201 and 53.202 are required.
- 62.398 METHODS AND MATERIALS IN MATHEMATICS IN THE ELEMENTARY SCHOOL** 3 sem. hrs.
Mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the elementary school.
Prerequisite: 6 sem. hrs. in mathematics.
- 62.400 WORKSHOP IN TEACHING ELEMENTARY AND EARLY CHILDHOOD MATHEMATICS** 3 sem. hrs.
A workshop course designed to provide individual or group study of problems concerned with the teaching of mathematics at the early childhood and elementary levels.

- 62.401 STUDENT TEACHING IN ELEMENTARY AND EARLY CHILDHOOD EDUCATION** 12 sem. hrs.
 Scheduled on a full semester basis with a minimum of 30 hours per week. Opportunities for direct participating experiences are provided. Students are placed in classrooms with carefully selected cooperating teachers. The major(s) of the students determine one of the following assignments: K-6 One experience in a primary division and one experience in an intermediate division of a public school.
 N-K-3: One experience in a preschool situation and one in a primary division of a public school or two experiences in a primary division of a public school. One experience in a preschool situation or primary division of a public school and one experience in an intermediate division.
- 62.410 WORKSHOP IN PRESCHOOL EDUCATION** 3 sem. hrs.
 A course designed to provide teachers from infant-Day-Care Centers and Nursery Schools with methods and materials that they can construct and utilize within their centers and classrooms. Theories of Bruner, Piaget, Froebel and Montessori will be examined.
- 62.411 PROFESSIONAL SEMINAR: ELEMENTARY AND EARLY CHILDHOOD EDUCATION** 3 sem. hrs.
 Designed for Elementary student teachers. Includes references to School Law, Professional Ethics and current education research. Scheduled concurrently with Student Teaching.
- 62.431 INDEPENDENT STUDY IN ELEMENTARY EDUCATION** 3 sem. hrs.
 Consent of the Department Chairperson required.
- 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 COMMUNICATIVE ARTS IN EARLY CHILDHOOD** 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.
- 62.441 ELEMENTARY EDUCATION WORKSHOP** 3 sem. hrs.
 Permits teachers in service to engage in individual or group study of classroom subjects or problem of interest or concern to them in their teaching.
- 2.480 STUDY OF DISCIPLINE IN THE ELEMENTARY SCHOOL** 3 sem. hrs.
 Designed specifically for prospective elementary teachers of junior level and above, emphasizing techniques designed to modify behavior in a positive way and the changing of wrong assumptions. This course may also be elected by teachers-in-service desiring to update and improve their skills of classroom control.

EDUCATIONAL STUDIES AND SERVICES

FACULTY:

Professors H.M. Afshar, Robert C. Miller, Ray C. Rost (Chairperson), David E. Washburn, Matthew Zoppetti; Associate Professor; Nancy Gilgannon, Assistant Professor James H. Neiswender.

Although it offers no major degree programs, the Department of Educational Studies and Services provides academic support services for all teacher education programs. This department also administers the Educational Media Laboratory, the Multicultural Education Center, the Curriculum Materials Center, Army R.O.T.C., Air Force R.O.T.C., the Marine Platoon Leaders Program and Upward Bound.

COURSE DESCRIPTIONS

(Code 60)

Courses marked † may be used toward General Education.

60.101 THE SCHOOL IN CONTEMPORARY AMERICAN SOCIETY † 3 sem. hrs.

American education is analyzed in terms of its interaction with other institutions within the social order. Designed as a General Education course for arts and science students.

60.201 CAREER DEVELOPMENT AND LIFE PLANNING † 3 sem. hrs.

The exploration of career theories as they relate to a student's value system. Careers are studied as a developmental process which includes decision making, goal setting and life planning.

60.301 EDUCATIONAL MEDIA 3 sem. hrs.

A comprehensive study of communicative media. Laboratory sessions in use of audio-visual materials in education.

Prerequisite: 60.393.

60.311 EDUCATIONAL MEASUREMENTS AND EVALUATION 3 sem. hrs.

Principles of evaluation; grading; representative standardized tests; vocabulary of measurement, test construction and interpretation; informal and formal measurement.

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.

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: Junior Standing.

60.394 EDUCATION IN URBAN SOCIETY † 3 sem. hrs.

A study of formal education which serves areas in the United States with high population densities and the social factors which influence education in these settings. This course fulfills the Social Foundations requirements for certification.

- 60.395 EDUCATION IN RURAL SOCIETY +** 3 sem. hrs.
A study of formal education which serves areas in the United States with low population densities and the social factors which influence education in these communities. This course fulfills the Social Foundations requirement for certification.
- 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 †** 1-3 sem. hrs.
Admission only with consent of the department chairperson.
- 60.440 WORKSHOP IN EDUCATIONAL MEDIA** 1-6 sem. hrs.
Study of selected topical areas as related to media technique skills, and programs. May include research by individual students.
- 60.441 WORKSHOP IN EDUCATION** 1-6 sem. hrs.
Study of selected areas in elementary or secondary education including research by individual students in a special teaching field.
- 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.

Air Force ROTC

Bloomsburg State College participates with Wilkes College in a program which allows students to qualify for commissions in the United States Air Force upon graduation.

The Air Force ROTC (AFROTC) provides a four-year program divided into the general military course (GMC) in the first two years and the Professional Officer Course (POC) in the last two years. A student may elect to enroll in either the total four-year program or the POC. Students in the four-year program take the GMC during the freshman and sophomore years and the POC during the Junior and Senior years, attending four weeks of field training during the summer between the Sophomore and Junior years.

Members of the program are eligible to compete for AFROTC Scholarships.

For acceptance into the POC, the four-year program student must pass a physical examination and an Officer Qualification Test and must have attained an acceptable academic rating.

To qualify for direct entrance in the two-year POC program, students must have two academic years remaining at either the graduate or undergraduate level or a combination of the two. They must meet the physical standards, pass an Officer Qualification Test, have an acceptable academic rating and must successfully complete a six week field training course. Transfer students may elect the POC if they satisfy the above requirements.

Uniforms, equipment, and textbooks for the AFROTC work are supplied by Wilkes College and the United States Air Force. Students in the POC receive \$100.00 per month subsistence allowance. In addition, a limited number of scholarships are available to students in the program on a competitive basis.

Students who complete successfully the POC are commissioned as Second Lieutenants in the United States Air Force Reserve. They serve on active duty in the Air Force in a specialty as close as feasible to their academic training and consistent with Air Force needs.

Four semester hours of credit may be earned in the GMC and 12 semester hours in the POC.

Courses offered during the academic year are conducted at Wilkes College.

The field training required before entry into the POC is held at several operational bases each summer. Cadets have opportunity to observe, fly, and live with career personnel. Transportation from the legal residence of the Cadet to the field training base and return, food, lodging, and medical and dental care are provided by the Air Force. The Cadet receives approximately \$300.00 for the four-week field training or \$450.00 for the six-week training period.

The Department of Aerospace Studies at Wilkes College conducts a number of field trips to Air Force Installations. The trips include tours of the base and familiarization flights.

There is a flight instruction program, designed for Cadets in the POC who propose to enter Air Force Pilot training upon graduation, which identifies applicants who possess the qualifications necessary to fly high performance aircraft. The program consists of a ground phase given by officers of the detachment, and a flying phase with dual and solo flight instruction by a certified civilian flying school at government expense.

Corps Training

AFROTC cadets must participate in Corps Training one hour per week during each semester. This program involves a progression of experience designed to develop each student's leadership potential in a supervised training laboratory. Areas examined: Air Force customs and courtesies; drill and ceremonies, career opportunities, life and work on an Air Force junior officer.

Field Training

Candidates for enrollment in the POC will attend AFROTC field training during one summer. The training, conducted at selected Air Force bases, gives students an opportunity to observe Air Force units and people at work and at home, participate in marksmanship, survival, athletics, leadership training activities, take aircraft orientation flights, and work with contemporaries from other states. Students in the four-year program attend a four-week session while candidates for the two-year program must complete a six-week program.

AEROSPACE STUDIES

(Code 61)

GENERAL MILITARY COURSES

The General Military Courses (GMC) constitute a two-year program for freshmen and sophomores designed to provide general knowledge of the role, organization, missions, and historical development of U.S. air power. Students enrolled in the GMC who are not on Air Force scholarships incur no military obligations.

Coadjutant Instructors in Aerospace Studies: Lt. Col. Anthony W. Seizys, Cpt. Kenneth T. Johnson. Coordinator: Dr. Ray C. Rost.

61.110 U.S. MILITARY FORCES IN THE CONTEMPORARY WORLD I 1 sem. hr.

Background, missions, and functions of U.S. military forces, with emphasis on U.S. Air Force organization, doctrine, and strategic forces.

61.120 U.S. MILITARY FORCES IN THE CONTEMPORARY WORLD II 1 sem. hr.

U.S. general purpose military forces; insurgency and counter-insurgency; aerospace support forces and organizations.

61.210 THE DEVELOPMENT OF AIR POWER I

1 sem. hr.

Air power development in historical perspective through the end of World War II; evolution of missions, concepts, doctrine, and employment, with emphasis on changes in conflict and factors which have prompted technological developments.

61.220 THE DEVELOPMENT OF AIR POWER II

1 sem. hr.

Air power development from the end of World War II to the present; changing missions and employment of air power in support of national objectives.

Prerequisite: 61.210.

PROFESSIONAL OFFICER COURSES

The Professional Officer Courses (POC) constitute a four-semester program, normally taken during the junior and senior years, mandatorily leading to commissioning as an Air Force officer. The POC concentrates on national defense policy, concepts and practices of management, and concepts and practices of leadership.

61.310 CONCEPTS OF MANAGEMENT

3 sem. hrs.

The role and functions of the professional military officer in a democratic society, and civil-military interaction; basic framework of defense policy and formulation of defense strategy; development of individual communicative skills.

Prerequisite: POC membership or permission of the instructor.

61.320 CONCEPTS OF LEADERSHIP

3 sem. hrs.

The problems of developing defense strategy in a rapidly changing technological environment; effective deterrent posture and management of conflict; dynamics and agencies of defense policymaking analyzed through case studies.

Prerequisite: 61.310 or permission of instructor.

61.410 NATIONAL SECURITY FORCES IN AMERICAN SOCIETY I

3 sem. hrs.

General theory and practice of management with special reference to the Air Force; study of information systems, quantitative approach to decision making, and resource control techniques; development of communicative skills.

Prerequisite: 61.320 or permission of the instructor.

61.420 NATIONAL SECURITY FORCES IN AMERICAN SOCIETY II

3 sem. hrs.

Air Force leadership at the junior officer level, including its theoretical, professional, and legal aspects; practical experience in influencing people, individually and in groups, to accomplish organizational missions effectively; development of communicative skills.

Prerequisite: 61.410 or permission of the instructor.

Army ROTC

Bloomsburg State College participates with the Bucknell University in a cross-enrollment program which allows students to qualify for a commission in the U.S. Army upon graduation.

Army ROTC is a four-year experience open to men and women. It is divided into a basic program of four courses given during the Freshman and Sophomore years and the advanced program of four courses given during the Junior and Senior years. (The Director of Military Science can authorize a waiver of basic course requirements for a student who has prior active military service or who has completed high school level ROTC.) No service obligation is incurred until the beginning of the advanced program.

A special program, available to selected students who were unable to take the basic courses, permits them to enroll in the advanced courses after completing a basic summer camp between the Sophomore and Junior years. Students who

attend the basic summer camp are paid at a rate equivalent to the basic pay for a private together with travel allowance, subsistence, housing, uniforms and medical care.

Students enrolled in the advanced courses receive subsistence pay of \$100.00 a month for not to exceed ten months a year. Successful completion of the advanced program requires attendance at an advanced summer camp, normally scheduled between the Junior and Senior years; payment during this camp is at a rate equivalent to one-half of the basic pay for a Second Lieutenant with less than two years of service together with a travel allowance, subsistence, housing, uniforms and medical care.

Students who complete the advanced program successfully qualify upon graduation for a commission as Second Lieutenant in the United States Army and incur a service obligation in the Army with active duty requirements that vary with the type of commission accepted.

A physical examination conducted by a medical doctor verifying the physical fitness of the student is required prior to acceptance into the ROTC program.

MILITARY SCIENCE

Coadjutant Instructors in Military Science: Lt. Col. John Wilson, Cpt. Michael Thornburg, Cpt. Peter Thompson, MSG Richard Hoagland. Coordinator: Dr. Ray C. Rost.

ARMY ROTC

(Code 67)

BASIC PROGRAM

(Freshman and Sophomore Years)

67.110 INTRODUCTION TO MILITARY SCIENCE 1 sem. hr.

The military as a profession. Organization of the army with emphasis on career opportunities for ROTC graduates. Introduction to basic soldiering techniques, military weapons, and equipment.

67.120 INTRODUCTION TO TACTICS/MILITARY ISSUES 1 sem. hr.

Functions and responsibilities of a leader within the smallest element of the Army. Principles of military estimates and orders. Tactical concepts and principles applied to a small unit.

67.210 APPLIED LEADERSHIP AND MANAGEMENT I 1 sem. hr.

Fundamentals of educational psychology applicable to military instruction, techniques used in planning, presenting and evaluating instruction. Land navigation procedures including use of maps, aerial photographs, and other topographic information.

67.220 APPLIED LEADERSHIP AND MANAGEMENT II 1 sem. hr.

The functions and responsibilities of leaders at the platoon level of command. Platoon level tactical concepts and principles. Continued development of leadership through practical exercise.

67.230 ROTC BASIC CAMP 4 sem. hrs.

Sophomore Summer Semester

(This course is offered in lieu of the Freshman and Sophomore courses for transfer students and other students who enter the program at the Junior level.)

ADVANCED PROGRAM

(Junior and Senior Years)

67.310 ADVANCED MILITARY SCIENCE I 3 sem. hrs.
 Analysis of the leader's role in directing the efforts of individual and small units during military operations to include military geography, weapons systems, communications, and intelligence gathering. Army structure within the Division.

67.320 ADVANCED MILITARY SCIENCE II 3 sem. hrs.
 Delegation of authority and responsibility, span of control, planning, coordinating and decision making procedures. Analysis of military problems and leadership situations, and the preparation and delivery of logical solutions. (During this semester, students are required to participate in a pre-camp orientation program of physical and mental preparation for the rigors of advanced camp training and testing.)

67.330 ROTC ADVANCED CAMP 6 sem. hrs.
Junior Summer Semester

67.410 SEMINAR IN LEADERSHIP AND MANAGEMENT 3 sem. hrs.
 Military Law and its relationship to the civil government structure. The position of the United States in the contemporary world scene and its impact on military leadership and management problems. Management planning within the Cadet Corps organization.

67.420 THEORY AND DYNAMICS OF THE MILITARY TEAM 3 sem. hrs.
 Analysis of military leadership and management problems; application of leadership principles with practical experience *via* a teaching practicum. Responsibilities of an officer on active duty.

MARINE PLATOON LEADERS PROGRAM

Recruiter: Cpt. Pete Aseritis, Cpt. Thomas Wolfe, Sgt. J.A. Wagner. Coordinator: Dr. Ray C. Rost.

A program which provides selected students an opportunity to be commissioned as officers in the Marine Corps after having completed Summer Training Courses and the baccalaureate degree from Bloomsburg State College.



NURSING

FACULTY: Professor Gertrude Flynn; Associate Professors Lois Heckman, Lauretta Pierce; Assistant Professors Robert L. Campbell, Lucille Gambardella, Sandra Goodling, Joanne Grunow, Winifred Kaebnick, Ann Kresovich, Sharon Kribbs, Caroline LeBlanc, Margaret Legenhauser, Elsie S. Nierle, Marie Parnell, Roselena Thorpe, Lois Zong; Instructor Dorette Welk.

Purpose:

The purpose of the program is to prepare individuals to enter a career as a professional nurse. Emphasis is on assisting students to develop knowledge, attitudes and skills to become professional nurse practitioners who are generalists and who can assume increasing responsibilities for:

1. maintenance and promotion of health,
2. assessment and nursing diagnoses,
3. therapy,
4. rehabilitation, and
5. leadership roles within health care systems in a variety of settings.

Degree:

Successful completion of the program leads to the degree, Bachelor of Science in Nursing (B.S.N.). After earning the baccalaureate degree, graduates who are not registered nurses take the registered nurse examination for licensure by a State Board of Nurse Examiners. When students are employed in health agencies, they may not be employed as registered or practical nurses unless they are currently licensed.

Admission:

Two categories of applicants may be considered: recent high school graduates and transfer students. An individual who aspires to be admitted to the program must gain admission to the College (See Chapter 4) and request admission to the Department of Nursing. The number of applicants admitted to the program is limited to the number of clinical laboratory places available.

Applicants for admission to the nursing program must be in good health and have yearly physical examinations as well as specific diagnostic tests and immunizations.

The Degree Program:

The program combines courses on the campus and clinical practice in patient care areas in selected health agencies; with the guidance of nursing students provided by the faculty of the Department of Nursing of the College.

The course requirements for the degree comprise:

A. General Requirements: (See Section 6.4) Note: A number of the prescribed courses in physical sciences and social sciences listed in the Specialization may also be applied by the student toward Groups II and III of the General Education Requirements. Students are encouraged to elect courses in such disciplines as, philosophy, and foreign language (in particular, Spanish).

B. Specialization: Biology: 50.173, 174, 50.342, 373, 374; Chemistry: 52.101, 108, 113; Psychology: 48.101, 210, and 3 semester hours elective under advisement; Sociology: 45.211, 213; Nursing: 82.201, 202, 301, 302, 304, 306, 401, 402, 404, plus statistics.

C. Free electives: Free elective courses are required to complete the minimum graduation requirement of 128 semester hours.

Retention:

Supplementing the retention standards of the College (Sections 5.05 and 5.06), students in the Baccalaureate Nursing Program must maintain a Q.P.A. of at least a 2.0 for the first 18 credits and a minimum of a "C" in all required courses. In the Baccalaureate Nursing Program, the following Q.P.A. must be maintained:

19 — 30 semester hours	2.25 or higher
31 — 54 semester hours	2.50 or higher
55 — above	2.75 or higher

Students who do not meet these standards may be required to repeat the course(s), do supplementary study or withdraw from the nursing program. Because of the nature of nursing, the nursing faculty reserves the right to retain only those students who, in their judgment, satisfy the requirements of scholarship, health, and personal suitability for nursing.

Sequence:

A suggested four-year sequence of the above requirements, planned for optimum systematic growth and development of students who enter the program directly from high-school graduation, is as follows:

FRESHMAN YEAR

Fall	sem. hrs.	Spring	sem. hrs.		
50.173	Anatomy and Physiology.....	3	50.174	Anatomy and Physiology.....	3
20.	Freshman English.....	3	20.	English.....	3
52.101	Introductory Chemistry.....	3	50.342	Medical Microbiology.....	3
52.113	Chemistry Laboratory.....	2	48.	Psychology Elective.....	3
48.101	General Psychology.....	3	52.108	Physiological Chemistry.....	4
05.	Physical Education.....	1	05.	Physical Education.....	1

SOPHOMORE

82.201	Nursing Science I.....	1-12	82.202	Nursing Science II.....	1-12
48.211	Child Psychology.....	3	45.213	Contemporary Social Problems.....	3
45.211	Principles of Sociology.....	3		Elective.....	3

JUNIOR YEAR

82.301	Advanced Nursing Science I.....	1-8	82.302	Advanced Nursing Science II.....	1-8
	Statistics.....	3	82.304	Psychopathology.....	3
82.303	Pathophysiology.....	3	82.306	Methods of Inquiry.....	3
	Elective.....	3		Elective.....	3
05.	Physical Education.....	1	05.	Physical Education.....	1

SENIOR YEAR

82.401	Community Health Nursing.....	1-12	82.402	Independent Project.....	3
	Electives.....	6	82.404	Nursing Seminar.....	3
				Electives.....	6

Miscellaneous:

When college vehicles are not assigned or available, students must supply their own transportation to clinical laboratory experiences. Uniforms, a sweep-second wrist watch, a stethoscope and such other equipment and supplies as may be required must be provided at student expense. Textbooks are apt to be more expensive than for many college programs.

NURSING

COURSE DESCRIPTIONS

(Code 82)

82.201 NURSING SCIENCE I**1-12 sem. hrs.**

To orient the student to the theory and techniques needed to assist children and adults in preventing illness and restoring health. The course comprises six interdependent modules:

Module: I	Communication
II	Nursing Process
III	Basic Nursing Concepts
IV	Intro. to Clinical Nursing Practice
V	Nutrition
VI	Pharmacology

Theory, 8 hrs. per week; Clinical Practice, 16 hours; *Fall*.

Prerequisites: 50.173, 174, 342; 52.101, 113, 108; 48.211 (or concurrent).

82.202 NURSING SCIENCE II**1-12 sem. hrs.**

To increase knowledge and skills relative to the care of children and adults in the prevention of disease and the restoration of health. The course is divided into six modules;

Module: I	Disturbances of Fluid and Electrolyte Balance
II	Oxygenation and Transportation Difficulties
III	Disorders of Cellular Growth and Body Defenses Against Injury
IV	Disorders of Emotional Equilibrium
V	Disturbances in Neural Regulations
VI	Disturbances in Chemical Regulation

Theory, 8 hrs. per week; Clinical Practice, 10 hrs.; Techniques Laboratory, 2 hrs.

Prerequisite: 82.201.

82.203 INTRODUCTION TO NUTRITION**3 sem. hrs.**

Designed to introduce students in education, communication disorders, health and athletics, allied health science to concepts of nutritional needs for optimal growth and development throughout the aging process (conception to death), of food marketing, in influences in food selection, and in nutrition policy. Methods of integrating nutrition education into various curricula and settings will be introduced.

82.301 ADVANCED NURSING SCIENCE I**2-8 sem. hrs.**

To develop knowledge and skills in the application of sociological, psychological, and physiological principles in the treatment of patients in ambulatory, acute, and chronic care settings throughout the age cycles. The course is divided into five modules.

Module: I	Physical Assessment
II	Health Care
III	Emergency Care
IV	Intensive Care
V	Care of Chronic Patients

Theory, 4 hrs. per week; Clinical Practice, 16 hrs.; *Fall and Spring*

Prerequisites: 82.201, 202; or concurrently 82:303

82.302 ADVANCED NURSING SCIENCE II**2-8 sem. hrs.**

To increase competence in functioning as a professional nurse, and in a colleague relationship with other health care workers, with emphasis on responses to emotional

distress in various care settings throughout the age cycle. The course is divided into five modules:

Module: I	Mental Assessment
II	The Community as a Therapeutic Modality
III	Individual Therapy
IV	Group Therapy
V	Family Therapy

Theory, 4 hrs. per week, Clinical Practice, 16 hrs.; *Fall and Spring*.

Prerequisites: 82.201 and 82.202 or concurrent 82.304.

82.303 PATHOPHYSIOLOGY 3 sem. hrs.

To apply physiological principles as a means of understanding pathological clinical conditions. Theory 3 hrs. per week; *Fall and Spring*.

Prerequisite: 82.201 and 82.202.

82.304 PSYCHOPATHOLOGY 3 sem. hrs.

To examine theories of mental illness with emphasis on prevention and research. Theory, 3 hours per week, *Fall and Spring*.

Prerequisites: 82.201 and 82.202.

82.305 EMOTIONAL ASPECTS OF PATIENT CARE 3 sem. hrs.

An opportunity to explore common emotional responses of patients in non-psychiatric settings.

82.306 METHODS OF INQUIRY I 3 sem. hrs.

To orient the student to the research process including considerations of such concepts as variables, operational definition, sampling processes, types of research design, methodological approaches, and utilization of basic statistical data. Theory 3 hours per week. *Spring*.

Prerequisites: Statistics

82.307 GERIATRIC NURSING 3 sem. hrs.

An elective course which focuses on the physiological and social aspects of aging, with emphasis on the assessment of problems and appropriate nursing intervention.

82.308 PSYCHO-THERAPEUTIC NURSING INTERVENTION 3 sem. hrs.

Primarily for nurses working with emotionally ill persons. The focus is on the assessment of the patient's emotional status and guidelines for appropriate intervention.

82.309 EPIDEMIOLOGY 3 sem. hrs.

Focus is on studies of common epidemiological problems, with emphasis on the epidemiologic method of inquiry.

82.310 PHYSIOLOGICAL PRINCIPLES IN CLINICAL NURSING PRACTICE 3 sem. hrs.

Designed to examine functional anatomy and physiological principles as they relate to problems encountered in clinical nursing practice.

Prerequisite: restricted to registered nurses.

82.401 COMMUNITY HEALTH NURSING 3-12 sem. hrs.

To increase the students' knowledge through the application of concepts from a variety of scientific disciplines as a basis for understanding the dynamic interaction of individual and group values, reactions, and action behaviors in health-illness situations and other societal structures as they affect persons; levels of health and the provision of health care in the community setting, using a family-centered approach. The course consists of four modules:

Module: I	Health System Models
II	Epidemiology
III	Primary Nursing
IV	Cultural Assessment

Limited to B.S.N. students. Theory, 4 hrs. per week; Clinical Practice, 16 hours. *Fall or Spring.*

Prerequisites: 82.301, 302, 303, 304.

82.402 METHODS OF INQUIRY II

3 sem. hrs.

To provide an opportunity for the student to investigate a clinical nursing or health problem independently with the guidance of a faculty member, using a scientific investigative approach. Limited to B.S.N. students. Theory 3 hours per week. *Fall or Spring.*

Prerequisites: 48.260 or 45.460; 82.301, 302, 306.

82.403 CURRENT ISSUES IN NURSING PRACTICE

3 sem. hrs.

A study of current issues and developments in nursing and their implications for the future of the profession.

Prerequisite: restricted to registered nurses.

82.404 NURSING SEMINAR

3 sem. hrs.

To explore the nature of professionalization as it occurs in society, with particular reference to the health care system. Current issues, trends, political action and a administrative dimensions in nursing are explored. Theory, 3 hours per week. *Fall or Spring.*

82.405 NURSING RESEARCH II

1-6 sem. hrs.

An investigation of an area of special interest and value to the student, under the direction of a faculty member, following a plan approved in advance by the department chairperson. May be partly interdisciplinary.

82.406 SURVEY OF PROFESSIONAL NURSING

3 sem. hrs.

This nursing elective course is divided into five nine-hour modules which focus on maternal and child health, medical, surgical and psychiatric nursing. It surveys the broad range of nursing and acts as an integrating stimulus prior to Board examinations. May be taken on a pass/fail basis.



SECONDARY EDUCATION

FACULTY:

Professor Raymond E. Babineau; Associate Professors Glenn A. Good, Martin M. Keller, Milton Levin, A.J. McDonnell (Chairperson).

SECONDARY EDUCATION CURRICULUM

The Secondary Education curriculum is a major planned to offer academic, cultural and professional experience 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 6.4)

B. Professional Education. (See course descriptions for prerequisites of these courses.)

60.393—Social Foundations of Education	3 sem. hrs.
60.391—Learning and the Learner	3 sem. hrs.
60.301—Educational Media	2 sem. hrs.
*65.396—Curriculum and Instruction	4 sem. hrs.
*65.351 to 360 (Appropriate subject matter methods course)	3 sem. hrs.
**65.402—Student Teaching	12 sem. hrs.
**65.374—Teaching of Reading in the Academic Subjects	3 sem. hrs.

*These two courses must be scheduled concurrently.

**These two courses must be scheduled concurrently.

C. Area of Concentration. Each area of concentration 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 subject in choosing electives, basic to graduate study. The requirements for each area of concentration follow.

D. Free electives if necessary to complete the minimum graduation requirement of 128 semester hours.

Areas of Concentration in Secondary Education

BIOLOGY

Biology: 50.210, 220, 332, 351, 380;

Chemistry: 52.101 and/or 102; 113; 52.211, 233;

Mathematics: 53.141;

Fifteen semester hours elective in Biology, including 3 semester hours in field courses in addition to 50.351.

Physics is recommended—students who plan to enter graduate study should take both 54.111 and 54.112.

CHEMISTRY

Chemistry: 52.102, 113, 122, 231, 232, 311, 312, 490;

Physics: 54.211, 212;

Mathematics: 53.125, 126; 53.171 or 172; 53.225;

Biology: 50.101, 111; or 50.210 or 50.220.

COMMUNICATION

The requirements for the certificate in Communication comprise: 27 semester hours in core courses; 15 semester hours in one of five emphasis options; three semester hours in each of three of the remaining four emphasis options. (Total, 51 semester hours.)

Core Courses

English: 20.302

one course from 20.120, 121, 220, 221, 222, 223;

one course from 20.360, 361, 362, 363;

one course from 20.311, 312, 411;

Speech and Theatre: 25.103 or 104; 25.206 or 241; 25.205 or 215; 26.208 or 209; 27.225 or 231.

(Total core courses, 27 semester hours.)

Emphasis Options

Speech option:

15 semester hours elected from any Code 25 courses not listed in the core.

Theatre option:

15 semester hours elected from any Code 26 courses not listed in the core.

Non-Print Media option:

15 semester hours elected from any Code 27 courses not listed in the core.

Literature option:

20.251; 20.352;

one author course: 334, 336-8, 363, 381, 383, 482;

one genre course: 153, 280, 360, 361, 362, 370, 372, 373, 374, 380, 492;

one period course: 332, 333, 341, 342, 343, 344, 345.

Writing/Language option:

Five courses elected from 20.105, 111, 205, 255, 301, 304, 305, 311, 312, 411.

EARTH AND SPACE SCIENCE

Mathematics: Two courses selected from 53.113, 53.123, 53.141, 53.125, 53.126;

Physics: 54.111;

Chemistry: 52.102, 113;

Physics: 54.112 or one additional Chemistry course;

Earth Science: 51.101, 253, 255, 259; plus 4 additional courses from 51.102, 105, 361, 355, 362, 365, 369, 370, 451, 455, 468, 475 and selected courses from Marine Science Consortium (55).

Maximum of 9 semester hours from Marine Science Consortium may be applied towards requirements for the area of concentration.

ENGLISH

English: 20.120 or 121;

English: 20.220 or 221;

English: 20.222 or 223;

One additional course from above groups, not previously taken;

English: 20.302, 363;

English: 20.312 or 20.311 or 20.411;

12 semester hours in additional elective courses (300 or 400 level) in English; no more than one of 20.301, 304, 305.

FRENCH

French: 10.103, 104, 201, 202, 203, 209; 10.211 or 212;

9 semester hours divided among civilization, language and literature courses.

Students exempted from 10.103 or any required course(s) will substitute advanced elective courses in French.

GENERAL SCIENCE

Biology: 50.101, 102, 111, 112 or 50.210, 220; 351; one course at 300 or 400 level;

Chemistry: 52.102, 113;

Physics: 54.111, 112, or 54.211, 212;

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.

GERMAN

German: 11.103, 104, 201, 202, 211, 212;

12 semester hours in German divided among literature, language and civilization courses.

Students exempted from 11.103 or any required course(s) will substitute advanced elective courses in German.

MATHEMATICS

Mathematics: 53.125, 126; 171 or 172; 211, 225, 226, 231, 241;

Twelve semester hours to be elected from 53.271, 281, 311, 314, 322, 331, 341, 371, 372, 373, 381, 411, 421, 422, 451, 461, 471, 472, 491, 492.

PHYSICS

Physics: 54.211, 212, 310, 311, 314, 400;

6 semester hours chosen from Physics courses numbered higher than 54.212;

Chemistry: 52.102, 113;

Mathematics: 53.125, 126, 225, 322.

COMPREHENSIVE SOCIAL STUDIES

The Social Studies Concentration requires 36 semester hours in prescribed core courses and the completion of one of seven areas of emphasis.

Core Courses

Anthropology: 46.200;

Economics: 40.211, 40.212;

Geography: 41.101, 41.102;

History: 42.112; 42.113; 42.208 or 121 or 122;

Political Science: 44.101, 44.161;

Sociology: 45.211;

Psychology: 48.101.

Areas of Emphasis**Social Problems—Economics**

Political Science 44.366 or Sociology 45.213;

Economics 40.413, 40.422;

12 semester hours elective in Economics.

Social Problems—Geography

One course from Geography 41.125, 253, 254, 256, Earth Science 51.101, 102, 255, 259;

One course from 41.213, 221, 258, 310, 324, 370, 463;

One course from 41.321, 333, 343, 344, 345, 346, 347;

9 semester hours elective in Geography;

3 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 non-western world;

One course in United States government and politics

One course in international or comparative politics

6 semester hours elective in history 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 and Methodology; American Government and Politics, Comparative Governments and Politics, International Politics,

3 semester hours elective in Economics or Sociology or History or Geography.

Social Problems—Sociology/Anthropology

Sociology 45.213, 45.315;

Sociology 45.316 or 45.318;

6 semester hours elective in Sociology.

History

History 42.398

Minimum of one course from each of the following groups: Non-West, Europe, United States; six semester hours elective in History (300-400 level); and 6 semester hours elective in Social Sciences, apart from History

SPANISH

Spanish: 12.103, 104, 201, 202, 209; 210 or 211;

12 semester hours divided among civilization, literature and language courses.

Students exempted from 12.103 or any required course(s) will substitute advanced elective courses in Spanish.

COACHING

The following courses are recommended to be elected by students who expect to coach athletics in addition to teaching in their field of concentration: Physical Education 05.242, 05.409; one or two courses from 05.251, 252, 253; two courses from 05.256, 259, 260. Completion of these courses does not lead to certification.

COURSE DESCRIPTION

(Code 65)

65.374 TEACHING OF READING IN ACADEMIC SUBJECTS 3 sem. hrs.

Understanding and techniques for developing reading skills applicable to the secondary school. Emphasis on readiness, comprehension, silent reading, and oral reading through secondary school academic subjects.

Prerequisite: Secondary Education 65.396.

65.396 CURRICULUM AND INSTRUCTION IN THE SECONDARY SCHOOL 4 sem. hrs.

A competency based experience which involves significant pre-professional activities. Broad areas of study include: secondary school curriculum, educational decision making, instructional planning, strategies and evaluation, classroom management and educational innovation. The studies are complemented by the Assistant Teacher Program which places the student in a working relationship with a local secondary school teacher. The student registers for 65.396 and the appropriate methods course:

- 65.351—Teaching of English in the Secondary School 3 sem. hrs.
 65.352—Teaching of Mathematics in the Secondary School (Spring Semester only) 3 sem. hrs.
 65.353—Teaching of Biological Science in the Secondary School 3 sem. hrs.
 65.354—Teaching of Physical Science in the Secondary School (Spring Semester Only) 3 sem. hrs.
 65.355—Teaching of Social Studies in the Secondary School 3 sem. hrs.
 65.356—Teaching of Speech in the Secondary School (Spring Semester Only) 3 sem. hrs.
 65.357—Teaching of Geography and Earth/Space Science in the Secondary School (Fall Semester Only) 3 sem. hrs.
 65.358—Teaching of Spanish in the Secondary School 3 sem. hrs.
 65.359—Teaching of French in the Secondary School 3 sem. hrs.
 65.360—Teaching of German in the Secondary School 3 sem. hrs.

Prerequisite: Psychology 48.101; Education 60.391; Education 60.393; junior standing in one of the areas of concentration 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 9.03.1.

Prerequisite: Education 65.396.

65.411 SEMINAR IN SECONDARY EDUCATION 3 sem. hrs.

Activities center around concerns and problems encountered in secondary education. The range of activities is determined by individual need and by levels of professional competency including diagnosis, mutual development of objectives, and self-evaluation.

65.431 INDEPENDENT STUDY IN SECONDARY EDUCATION 1-3 sem. hrs.

Consent of the Department Chairperson required.

65.441 SECONDARY EDUCATION WORKSHOP 3-6 sem. hrs.

Designed for both teachers in service and upper level undergraduates. Study of selected areas in secondary education. Individuals or group study of classroom subjects of interest or concern in teaching.

SPECIAL EDUCATION

FACULTY:

Professors Kenneth P. Hunt, William L. Jones, Andrew J. Karpinski (Chairperson), Colleen J. Marks, John M. McLaughlin, Jr., Emily A. Reuwsaat, Margaret S. Webber; Associate Professors Mary B. Hill, Carroll J. Redfern, James T. Reifer; Assistant Professor Joseph M. Youshock.

Program Description:

The Department of Special Education offers a certification program for teachers of Mentally Retarded and/or Physically Handicapped children, an area of concentration for students in Elementary Education and the courses and experiences which support these curricula.

The Department of Special Education, located in Navy Hall, is equipped with therapy rooms, television equipment and equipment and materials used in the training of exceptional children.

Students enrolled in Special Education have the opportunity of participating in practicum in supervised and graded special classes. After the completion of course work, students participate in full-time student teaching in Selinsgrove Center, Laurelton Center, and to public schools in Chester, Columbia, Lackawanna, Luzerne, Lycoming, Montgomery, Montour, Northampton, Northumberland, Lehigh, Bucks, Snyder, Sullivan and Centre Counties. A special class conducted by Susquehanna Intermediate Unit provides opportunity for observation and participation.

Continued enrollment in the Special Education curriculum after the sophomore year is limited to the number of students who can be accommodated in clinical practice during the junior and senior years.

Sophomores who have been tentatively enrolled in the curriculum may apply for continued enrollment as part of their application for admission to teacher education. If admitted to teacher education, selection for Special Education is made by the faculty of the Special Education department, assisted by representative seniors, in the light of the applicant's academic performance and professional promise.

Applicants who are not selected for Special Education should consult the coordinator of academic advisement concerning transfer to another curriculum. They are, however, eligible to reapply for Special Education during the next selection period.

CURRICULUM FOR TEACHING MENTALLY AND/OR PHYSICALLY HANDICAPPED

A. General Education. (See Section 6.4)

B. Academic Background Courses: Mathematics 53.201; Biology 50.101; Physical Science 54.103; Speech 25.103; Psychology 48.101 and 48.211; (Academic background courses designated by the departments as applicable to the General Education requirements may be elected in partial fulfillment of that requirement.)

C. Professional Education and related courses: 48.271 or 60.391; 60.311; 60.301; 60.393; 62.302; 62.371; 62.398; 05.321.

D. Specialization: 70.101; 70.200; 70.251; 70.250; 70.331, 70.332; 70.353; 70.350; 70.351; 70.461; 70.401.

E. Elective Courses: if necessary to complete the minimum of 128 semester hours for graduation.

COURSE DESCRIPTIONS
(Code 70)

70.101 INTRODUCTION TO SPECIAL EDUCATION + **3 sem. hrs.**

Deals with the characteristics and educational problems of, and programs for, exceptional children; the mentally retarded, the mentally gifted, those with behavior problems, those with speech problems, the hearing and visually impaired, and the neurologically and nonsensory physically handicapped. Information pertinent to the history and philosophy of special education is also presented.

70.200 INTRODUCTION TO THE MENTALLY AND PHYSICALLY HANDICAPPED + **3 sem. hrs.**

An orientation to the nature of mental and physical handicaps: concerned with etiology and types, and with the behavioral and learning characteristics involved. Students will be exposed to a historical survey of mental retardation, research in mental retardation, community and state responsibility in relation to the mentally and physically handicapped, prevention and treatment, educational and recreational avenues for the mentally and physically handicapped and various facets of the relationship and reactions of the child and parent.

70.231 LANGUAGE I **3 sem. hrs.**

Designed to aid the special class teacher in developing understanding of ausing and speech processes, developmental and defective. Course content includes: introduction to the physiology of speech and hearing mechanisms; developmental stages of language acquisition; etiological factors related to receptive and expressive deficits; and, techniques for developing listening and speaking skills by the classroom teacher.

Prerequisite: 70.101

70.250 BEHAVIOR DISORDERS + **3 sem. hrs.**

Deals with inappropriate behaviors emitted by students and the techniques and strategies that teachers may use to modify these behaviors. Some other areas covered are psychological disorders, research related to aggressive and withdrawn behavior, and the subjective nature of the social curriculum. Group and individual problems are examined at all levels of schooling.

Prerequisite: 70.101

70.251 LEARNING DISABILITIES **3 sem. hrs.**

The course is presented in three units, a general overview, the central nervous system and specific learning disabilities. Course content includes general information on learning problems, the medical model and specific language disorders and remediation.

Prerequisite: 70.101

70.253 METHODS AND MATERIALS FOR TEACHERS OF THE LOW FUNCTIONING MENTALLY RETARDED **3 sem. hrs.**

Designed to provide supervised student contact with low functioning mentally retarded/multihandicapped individuals (LFMR). The student will design and implement educational experiences for LFMR and will build and use materials suitable to the abilities of the individuals with whom they work. The students will be exposed to methods and materials appropriate to this segment of the MR population.

Prerequisites: Junior or senior standing and 70.200.

70.255 EXPERIENCE WITH EXCEPTIONAL CHILDREN **1-3 sem. hrs.**

Clinical or field experience working individually with exceptional children in various settings.

Prerequisites: Junior or senior status and permission of instructor.

- 70.256 THE MENTALLY GIFTED †** **3 sem. hrs.**
 The primary purpose of this course is to assist students to become familiar with physical, mental, emotional, and social characteristics of the mentally gifted and with types of organization, teaching procedures and curricular material used in the education of the mentally gifted. In addition, family relationships relevant to the education of gifted individuals are explored.
- 70.332 LANGUAGE II** **3 sem. hrs.**
 Designed to aid the student in preparing to teach exceptional children basic and refined written language skills. Course content includes methods and materials for teaching penmanship, spelling, syntactical structure and reading.
Prerequisite: Junior or senior status.
- 70.350 METHODS FOR ELEMENTARY SPECIAL EDUCATION** **3 sem. hrs.**
 Fundamental principles for, and a variety of teaching techniques applicable to the range of elementary levels of special education. Organization of programs, curricular approaches and materials for the special education teacher.
Prerequisites: 70.101, 70.200, 70.250 and/or 70.251.
- 70.351 SECONDARY METHODS FOR SPECIAL EDUCATION** **3 sem. hrs.**
 A student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of Special Education students. Practice in the use of various teaching aids and machines related to student projects in secondary special classes.
Prerequisite: Junior or senior status.
- 70.353 ASSESSMENT AND PLANNING** **3 sem. hrs.**
 Designed to give the students information and experience with formal and informal assessment devices and procedures, their usages and appropriateness. It will cover gathering information about the learner prior to instruction concerning appropriate instructional tasks, sensory channels, interest areas, and social skills. Ways of developing informal assessments, gathering observational information, storing information and planning for instruction will be covered.
Prerequisite: Junior or senior status.
- 70.357 PRE VOCATIONAL AND VOCATIONAL TRAINING FOR THE HANDICAPPED** **3 sem. hrs.**
 Develops a philosophy of Vocational Education for the mentally and/or physically handicapped; knowledge of programs and strategies to develop their pre-vocational and vocational skills; materials and assessment procedures appropriate for these students and programs.
- 70.375 INDIVIDUAL PROJECT** **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, internship in special aspects of educational programs.
(Open to juniors and seniors only with staff approval.)
- 70.401 STUDENT TEACHING WITH EXCEPTIONAL CHILDREN** **12 sem. hrs.**
 Student teaching provides opportunities for the student to test educational theory by putting it into practice; opportunities to raise questions, problems and issues which may lead to advanced study; and opportunities for effective functioning in a pupil-teacher relationship in an actual classroom setting.
Prerequisite: Concurrent with 70.461 — Seminar.

70.461 PROBLEMS IN SPECIAL EDUCATION

3 sem. hrs.

Instruction will be directed towards the development of constructive teaching of exceptional children. The course is devoted to problems in the education of exceptional children. As each problem is identified, its relationship to teaching is discussed. The course is designed to help the future teacher meet practical problems in guiding the exceptional individual in their learning experiences at school.

Prerequisite: Concurrent with 70.401.

70.490-491-492 SPECIAL WORKSHOP

1-6 sem. hrs.

Temporary special workshop seminars designed to focus on contemporary trends and problems in the field of Special Education. Lectures, resource speakers, team teaching, field experiences and practicum, news media and related techniques will be utilized.

9.10 STUDENT AND COMMUNITY SERVICES IN THE SCHOOL OF PROFESSIONAL STUDIES

Speech, Hearing and Language Clinic

This clinic, located in Navy Hall, provides a number of services to students, faculty, staff and 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 for the hearing impaired and parent counseling. Services of the clinic are free to Bloomsburg State College students, faculty and staff.

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, but no person is denied service because of financial need.

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 student newspaper. Classes usually are held two or three days a week for six weeks.

Upward Bound

The college presents the opportunity for tenth and eleventh grade students from participating high schools to enroll in the Upward Bound Program. The program, open to students meeting certain academic and financial eligibility requirements, is designed to assist these individuals by making them more self-confident, well informed, and better prepared for life beyond high school. The program consists of two segments. In the first segment, enrolled students spend two hours a week in their local high schools participating in academic experiences designed to supplement their regular scholastic program and to improve performance in the areas of English, reading, science, and mathematics. The program's counseling service provides close individual contact for discussing career, vocational and personal interests within the high school setting. The other component of Upward Bound is a six-week summer live-in experience on the college campus. This experience provides concentrated academic work, plus planned recreational, social, and cultural experiences both on and off campus.



10. SCHOOL OF EXTENDED PROGRAMS

10.1 ORGANIZATION AND FUNCTION

The School of Extended Programs administers and coordinates college-wide efforts to provide life-long education opportunities for citizens of the Central Susquehanna Valley region.

The school also facilitates and coordinates the operation of the offices of Cooperative Education, International Education, and Summer Sessions.

10.2 PROGRAMS

Non-Degree Credit Program

On the assumption that learning should be a life-long process, a non-degree credit program provides for enrollment by an individual in regular undergraduate credit courses without formal admission to the College as a degree candidate. Individuals are invited to use this program as an opportunity to review skills, acquire new skills, or pursue cultural and intellectual interests. Credit courses may be chosen from both day and evening offerings of the college.

College credit earned in appropriate courses taken as a non-degree student may be applied later if the individual seeks and is granted formal admission to a degree program in the college. Courses taken by non-degree students can also be used for certification programs and to meet undergraduate deficiencies for graduate study. (The School of Graduate Studies has its own non-degree regulations. See the Graduate Bulletin.)

Non-Credit Mini-Courses

Non-credit mini-courses provide opportunities for individuals to gain specialized skills and/or information for career purposes or to pursue cultural, recreational, or special interests through short-term experiences without credit.

These courses reflect expressed community needs and demands. A nominal hourly fee is charged.

Attendance Fee Program

The Attendance Fee Program allows individuals to attend college classes without credit. Admission on this basis depends upon available space and the payment of the fee of \$25 per course.

10.3 ADMISSION PROCEDURES FOR NON-DEGREE CREDIT STUDENTS

Application blanks may be secured from the Dean of Extended Programs and are filed in the Office of Admissions. Supporting credentials are required as follows:

(a) Adults who desire to enroll as part-time students must file documentary evidence of high school graduation or certification of high school equivalency.

(b) A student enrolled in another institution of higher education who wishes to take courses at Bloomsburg State College for transfer to the home institution must file a transcript from that institution. It is recommended that the applicant make certain that course work pursued at Bloomsburg State College will be accepted by the home institution.

(c) A student approaching the final year of high school who desires to combine college work with the last year of high school work must file a high school transcript, junior year SAT scores, a letter of recommendation from the high

school counselor, and letters of recommendation from two high school instructors in the academic area of intended pursuit. Acceptance for admission requires concurrence by the high school principal.

(d) Graduate students with undergraduate deficiencies must be recommended to the School of Extended Services by the dean of the School of Graduate Studies to pursue such undergraduate courses as the graduate dean recommends.

(e) An individual who wishes to pursue a remedial program to qualify for undergraduate degree admission must submit a high school transcript and an official accounting for all previous college attendance if any.

(f) Students with an earned baccalaureate degree who wish to complete the requirements for Level I or Level II teacher's certification must submit a transcript from the institution that granted the baccalaureate degree and must be recommended to the School of Extended Services by the Dean of the School of Professional Studies.

(g) Senior citizens who are retired, over 60 years of age, a legal resident of the U.S. and residing in the Commonwealth of Pennsylvania. Students in this category may be admitted to a class on a seat available basis only.

10.4 ADMISSION TO MINI-COURSES AND ATTENDANCE FEE PROGRAMS

Individuals who wish to take advantage of the mini-course and attendance fee programs are not required to file credentials; in most cases the only formality is that of registration for the course to be taken.

10.5 ACADEMIC ADVISEMENT IN THE SCHOOL OF EXTENDED PROGRAMS

Students who are taking work for teacher certification are assigned to academic advisers in the School of Professional Studies and must secure the signature of an adviser on the Non-degree Course Selection Form. Informal advisement of other students may be arranged through the Dean of the School of Extended Programs.

10.6 SUMMER SESSIONS

Undergraduate and graduate courses are offered in the summer sessions in both on-campus and off-campus locations. Students may schedule as many semester hours in a session as the number of weeks in the session. An overload requires the approval of the appropriate school dean and the Dean of Extended Programs in keeping with the college policy on normal load and overload.

Undergraduate courses are open, without formal application, to regularly enrolled students of Bloomsburg State College who wish to enrich or accelerate their programs of study or make up academic deficiencies. Others must apply for admission through the Office of Admissions.

Students from other colleges are admitted to Summer Sessions upon the filing of a simplified application form supported by a letter of good standing from the chief academic officer of the college regularly attended.

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

Special workshops are scheduled to provide teachers in service and other professional groups with specific training and in their professional skills at times and locations convenient to their schedules and places of employment.

A copy of the Summer Sessions Bulletin (including both undergraduate and graduate courses) may be obtained from the Dean of the School of Extended

Programs. Application forms for undergraduate studies are included with the Bulletin; graduate students secure application forms from the Dean of Graduate Studies.

10.7 INTERNATIONAL EDUCATION

The International Education Program advises international students and coordinates college-wide efforts to provide multi-cultural experiences for students and faculty. Interested students may be provided student teaching experiences in foreign countries through this program. The Pennsylvania Consortium for International Education sponsors a center for study at Salzburg, Austria, each summer.

Students interested in international education programs at Bloomsburg and/or other colleges are referred to the Director of International Education.

10.8 COOPERATIVE EDUCATION

The cooperative Education Program provides opportunities for students to combine academic instruction on-campus with work experience off-campus. The program, which is optional to selected students according to the specific academic needs of their programs of study, includes internships, work-study programs, and the typical "co-op" experience.

Several internships are available in the Department of Education in Harrisburg each semester. A student may apply for these experiences by contacting the Dean of Extended Programs.





11. GRADUATE STUDIES

11.1 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 and in 1971 a program in biology to lead to the Master of Science degree. Additional programs to lead to the Master of Arts and Master of Science and in 1976 the Master of Business Administration degree.

The objective of the programs for the degree, Master of Education, is to improve subject matter proficiency and develop mature, professional teachers. The objective of the Master of Arts program is to advance the student's scholarship in an academic discipline. Programs leading to the Master of Science degree are designed to develop mature scholarship and competence, especially as they are related to application. The object of the Master of Business Administration degree is to provide increased knowledge and skills essential for quality performance in the business professions.

The College pledges itself to a continuous review of the needs for graduate education in the geographic region it serves.

11.2 SCHEDULES 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.

11.3 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.





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KEY TO CAMPUS GUIDE APPEARING ON OPPOSITE PAGE

1. Carver Hall
2. Schuylkill Residence Hall
3. Heating Plant
4. Scranton Commons
5. Kehr College Union
6. Lycoming Residence Hall
7. Elwell Residence Hall
8. College Store
9. Luzerne Residence Hall
10. Montour Residence Hall
11. Maintenance Building
12. Art Lab/Ground Crew Bldg.
13. Northumberland
Residence Hall
14. Benjamin Franklin Hall
15. Navy Hall
16. Columbia Residence Hall
17. Haas Center for the Arts
18. Bakeless Center
for the Humanities
19. Andruss Library
20. Hartline Science Center
21. Sutliff Hall
22. Centennial Gymnasium
23. President's Residence
24. Campus Maintenance Center
25. Human Services Center (Proposed)
26. Old Science Hall
27. Waller Administration Building
28. Pergola
29. Multi-Level Parking
30. Softball Field
31. Tennis Courts
32. Practice Field
33. Department of Nursing

