




BLOOMSBURG UNIVERSITY

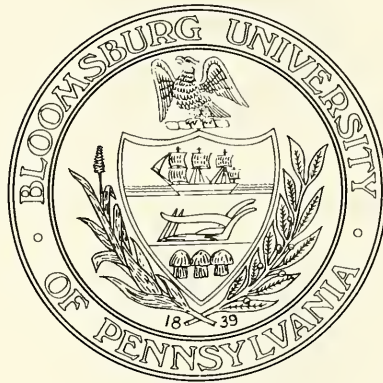
Undergraduate Catalogue

1985-86



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BLOOMSBURG UNIVERSITY OF PENNSYLVANIA



UNDERGRADUATE CATALOGUE

1985-1986

(prepared April 1, 1985)

CONTENTS

State System of Higher Education	3
Academic Calendar	4
Council of Trustees.....	5
Administration	7
Faculty	10
1. General Information	29
2. Expenses, Fees and Refunds	37
3. Student Life and Services	41
4. Admission and Readmission	55
5. Academic Policies and Practices	61
6. Undergraduate Curricula: Introduction.....	75
7. College of Arts and Sciences	87
8. College of Business	187
9. College of Professional Studies	201
10. Special Programs	237
11. School of Extended Programs	243
12. School of Graduate Studies	247
13. Index	250

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**BLOOMSBURG UNIVERSITY
APPROVED ACADEMIC CALENDAR
FOR
1985-86**

SEMESTER I**(1985)**

Classes Begin	Tuesday, September 3, 1985
Thanksgiving Recess Begins	Wednesday, November 27, 1985 (1:50 p.m.)
Classes Resume	Monday, December 1, 1985 (8:00 a.m.)
First Semester Classes End	Saturday, December 14, 1985 (4:00 p.m.)
Final Exam Period Begins	Monday, December 16, 1985
First Semester Ends	Saturday, December 21, 1985
Winter Commencement	Sunday, December 22, 1985

SEMESTER II**(1986)**

Classes Begin	Monday, January 13, 1986
Semester Break Begins	Saturday, March 22, 1986 (4:00 p.m.)
Classes Resume	Monday, March 31, 1986 (8:00 a.m.)
Second Semester Classes End	Saturday, May 3, 1986 (4:00 p.m.)
Final Exams Begin	Monday, May 5, 1986
Second Semester Ends	Saturday, May 10, 1986
Spring Commencement	Saturday, May 10, 1986

1986 Summer Sessions: May 26 through August 15, 1986





Seated from left to right: John Dorin (chairman), Lucy Szabo, Ramona Alley, Richard F. Wesner;
 Standing: Robert W. Buchner, Jr., LaRoy Davis; Aaron Porter, Gerald Malinowski; Larry W. Jones and Stanley Rakowsky

BLOOMSBURG UNIVERSITY

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(as of May 1, 1985)

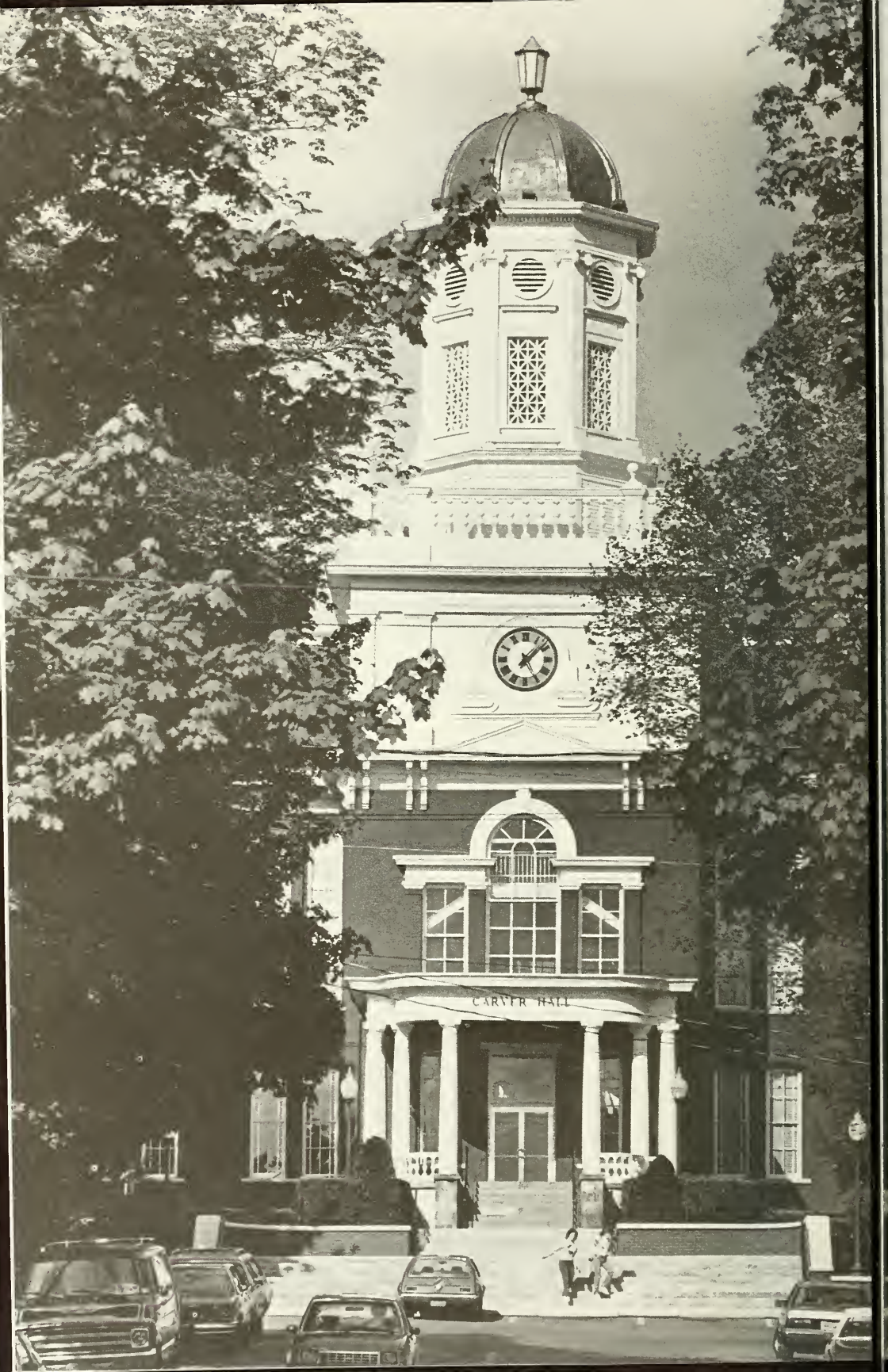
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 B.A., Rider College; M.Ed., Salem State College. (1983)

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- THOMAS A. BONOMO, Assistant Professor *Sociology and Social Welfare*
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(One leave during semester II, 1985-86)
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B.S., M.S., Ph.D., State University of New York. (1975)
(On leave during semester II, 1985-86)
- STEVEN L. COHEN, Professor *Psychology*
B.A., Oakland University; Ph.D., University of Maine. (1973)
- JAMES E. COLE, Professor *Chairperson, Biological and Allied Health Sciences*
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- JAMES H. DALTON, JR., Associate Professor *Psychology*
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- FRANK S. DAVIS, Professor *Computer Information Systems*
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- WILLIAM K. DECKER, Professor *Music*
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- VINCENT J. DEMELFI, Instructor *Center for Academic Development*
B.S., M.Ed., Bloomsburg State College. (1982)
- JOHN E. DENNEN, Assistant Professor *Accounting*
B.S., Bloomsburg State College; M.S., Bucknell University. (1965)
- LESTER J. DIETTERICK, Associate Professor *Accounting*
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- JUDITH P. DOWNING, Professor *Biological and Allied Health Sciences*
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- WILLIAM D. EISENBERG, Associate Professor *English*
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- JOHN R. FLETCHER, Assistant Professor *Biological and Allied Health Sciences*
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- ROGER W. FROMM, Associate Professor *Library, Reference Librarian*
B.A., Ohio Wesleyan University; M.Ed., University of Vermont; M.L.S., Rutgers University; M.A., University of Scranton. (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; M.A., Pennsylvania State University. (1971)
(On leave during academic year, 1985-86)
- FRANCIS J. GALLAGHER, Associate Professor *Marketing and Management*
A.B., Stonehill College; M.B.A., Temple University. (1972)
- LUCILLE A. GAMBARDELLA, Associate 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)
- 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)
- ABHA P. GHOSH, Assistant Professor *Center for Academic Development*
B.S., M.S., Ph.D., University of Calcutta. (1984)
- MARTIN M. GILDEA, Associate Professor *Political Science*
B.A., St. Vincent College; M.A., University of Notre Dame. (1966)
- NANCY G. GILGANNON, Associate Professor *Curriculum and Foundations*
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)

- STEPHEN C. GOODWIN, Instructor *Health, Physical Education and Athletics*
B.S., East Stroudsburg University; M.S., Ohio University. (1984)
- LEVI J. GRAY, Assistant Professor *Physics*
B.S., University of Pittsburgh; Ph.D., Syracuse University.
- DAVID E. GREENWALD, Associate Professor *Sociology and Social Welfare*
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(1970)
- JoANNE S. GROWNEY, Professor *Mathematics and Computer Science*
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(1969)
- ERVENE F. GULLEY, Associate Professor *English*
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- E. BUREL GUM, Assistant Professor *Accounting*
B.S., Bloomsburg State College; M.S.B.A., Bucknell University; Ed.D., University of
Pittsburgh. (1970)
- HANS KARL GUNTHER, Professor *History*
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- DAVID J. HARPER, Professor *Chairperson, Physics*
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- PAUL G. HARTUNG, Professor *Mathematics and Computer Science*
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- DAVID G. HESKEL, Associate Professor *Finance and Business Law*
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(1972)
- ROBERT B. HESSERT, Associate Professor *Psychology*
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- CARL M. HINKLE, Assistant Professor *Health, Physical Education and Athletics*
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- ANDREW J. KARPINSKI, Professor *Chairperson, Communication Disorders and Special Education*
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(1983)
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State University. (1960)
- ROBERT B. KOSLOSKY, Associate Professor *Art*
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B.S., M.A., Ph.D., Ohio State University. (1972)
- OLIVER J. LARMI, Professor *Philosophy and Anthropology*
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- BEVERLY H. LARSON, Assistant Professor *Coordinator of the Curriculum Materials
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- MARGARET READ LAUER, Associate Professor *English*
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(1966)
- ANN L. LEE, Assistant Professor *Communication Disorders and Special Education*
B.S., M.Ed., Bloomsburg State College. (1981)
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- MARGARET M. LEGENHAUSEN, Assistant Professor *Nursing*
B.S., Hunter College; M.A., Ed.M., Teacher's College. (1979)
- MICHAEL M. LEVINE, Assistant Professor *Psychology*
B.S., Brooklyn College; M.A., Western Michigan College; Ph.D., University of Hawaii.
(1972)
- THELMA L. LOHR, Instructor *Nursing*
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(1984)
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 Southern Illinois University. (1967)
- SHELL E. LUNDAHL, Assistant Professor *Counselor*
 B.A., West Chester State College; M.Ed., The Pennsylvania State University. (1981)
- ARTHUR W. LYSIAK, Associate Professor *History*
 B.S., M.A., Ph.D., Loyola University. (1970)
- LAWRENCE L. MACK, Professor *Chemistry*
 A.B., Middlebury College; Ph.D., Northwestern University. (1972)
- ROBERT R. MacMURRAY, Associate Professor *Economics*
 B.A., Ursinus College; M.B.A., Ph.D., University of Pennsylvania. (1971)
 (On leave during academic year, 1985-86)
- COLLEEN J. MARKS, Professor *Communication Disorders and Special Education*
 B.A., Edinboro State College; M.A., University of Illinois; Ed.D., Lehigh University.
 (1969)
- JOHN P. MASTER, Professor *Music*
 B.S., Juniata College; M.M., West Virginia University; D.M.A., Combs College of
 Music. (1971)
- RICHARD E. McCLELLAN, Assistant Professor *Accounting*
 B.S., M.Ed., Bloomsburg State College; M.S., Bucknell University. (1975) C.P.A.
- LAVERE W. McCLURE, Associate Professor *Geography and Earth Science*
 B.S., Mansfield State College; M.N.S., University of South Dakota. (1963)
- JOANNE E. McCOMB, Associate Professor *Health, Physical Education and Athletics*
 B.S., Slippery Rock State College; M.Ed., The Pennsylvania State University. (1960)
- SIDNEY M. McCULLY, Assistant Professor *English*
 B.A., Hendrix College; M.A., Western Illinois University; Ph.D., University of Iowa.
 (1984)
- A.J. McDONNELL, JR., Associate Professor *Assistant Chairperson, Curriculum and
 Foundations*
 B.A., M.Ed., The Pennsylvania State University. (1962)
- ELI W. McLAUGHLIN, Associate Professor *Health, Physical Education and Athletics*
 B.S., M.Ed., West Chester State College. (1961)
- JOHN M. McLAUGHLIN, Professor *Communication Disorders and Special Education*
 B.S., Lock Haven State College; M.Ed., D.Ed., The Pennsylvania State University.
 (1968)
 (On leave during semester II, 1985-86)
- JERRY K. MEDLOCK, Professor *Chairperson, Health, Physical Education and Athletics*
 A.B., Samford University; M.A., Ed.D., University of Alabama. (1969)
- ROBERT G. MEEKER, Assistant Professor *English*
 A.B., Lafayette College; M.A., University of Scranton. (1962)
- JACK L. MEISS, Associate Professor *Business Education and Office Administration*
 B.S., The Pennsylvania State University; M.Ed., Temple University. (1966)
- MARK S. MELNYCHUK, Assistant Professor *Biological and Allied Health Sciences*
 B.S., Moravian College; Ph.D., Kent State University. (1979)
- RICHARD L. MICHERI, Assistant Professor *Political Science*
 B.A., Fordham University; M.A., Columbia University. (1968)
- DONALD C. MILLER, Professor *Curriculum and Foundations Childhood Education*
 B.S., Ph.D., Ohio State University; M.Ed., Bowling Green State University. (1971)
 (On leave during semester II, 1985-86)
- G. DONALD MILLER, Jr., Associate Professor *Communication Disorders and Special
 Education*
 B.S., Indiana University of Pennsylvania; M.A., Ph.D., Temple University. (1970)

- GORMAN L. MILLER, Professor *Curriculum and Foundations*
B.A., LaVerne College; M.S., Indiana University; Ed.D., Ball State University. (1973)
- LYNNE C. MILLER, Assistant Professor *Biological and Allied Health Services*
B.S., University of Rhode Island College of Pharmacy; M.S., University of Texas; Ph.D.,
New Mexico State University. (1981)
- ROBERT C. MILLER, Professor *Curriculum and Foundations*
B.S., California State College; M.Ed., Ed.D., University of Pittsburgh. (1961)
- SCOTT E. MILLER, JR., Associate Professor *Library, Readers' Services Librarian*
A.B., M.A., M.L.S., University of Pittsburgh. (1966)
- WENDY L. MILLER, Assistant Professor *Music*
B.S., Bluffton College; M.M., D.Mus., Indiana University. (1983)
- DAVID J. MINDERHOUT, Professor *Philosophy and Anthropology*
A.A., Grand Rapids Junior College; B.A., M.A., Michigan State University; Ph.D.,
Georgetown University. (1974)
- LOUIS V. MINGRONE, Professor *Assistant Chairperson, Biological and Allied Health
Sciences*
B.S., Slippery Rock State College; M.S., Ohio University; Ph.D., Washington State
University. (1968)
- RAJESH K. MOHINDRU, Associate Professor *Economics*
B.A., M.A., DAV College; M.A., Ph.D., University of Pennsylvania. (1975)
- P. JAMES MOSER, Assistant Professor *Physics*
B.S., M.S., Ph.D., Pennsylvania State University. (1981)
- GARY E. MOWL, Assistant Professor *Communication Disorders and Special Education*
B.A., Maryville College; M.A., University of Tennessee. (1984)
- JOSEPH E. MUELLER, Associate Professor *Mathematics and Computer Science*
B.S., Butler University; M.S., University of Illinois. (1965)
- JAMES F. MULLEN, Instructor *Center for Academic Development*
B.S., The Pennsylvania State University. (1978)
- ALLEN F. MURPHY, Professor *Languages and Cultures*
A.B., Kenyon College; M.A., Ph.D., The Ohio State University. (1972)
(On leave during academic year, 1985-86)
- STEWART L. NAGEL, Associate Professor *Art*
B.F.A., Cooper Union; M.F.A., Pratt Institute. (1972)
- GEORGE W. NEEL, Associate Professor *Languages and Cultures*
B.S., Glassboro State College; Diploma (French), University of Aix-Marseille, Diploma
(German), University of Heidelberg; A.M., Rutgers University. (1964)
- CRAIG A. NEWTON, Professor *History*
B.A., University of Pennsylvania; M.A., Southern Illinois University; Ph.D., Western
Reserve University. (1966)
- ANN MARIE NOAKES, Professor *Curriculum and Foundations*
B.S., M.Ed., The Pennsylvania State University; Ph.D., University of Delaware. (1970)
- RONALD W. NOVAK, Associate Professor *Mathematics and Computer Science*
B.S., California State College; M.Ed., University of Pittsburgh; M.A., University of
Illinois. (1964)
- WILLIAM S. O'BRUBA, Professor *Chairperson, Curriculum and Foundations*
B.S., California State College; M.Ed., Duquesne University; Ed.D., Indiana University
of Pennsylvania. (1973)
- ROBERT S. OBUTELEWICZ, Assistant Professor *Economics*
B.A., B.S., Carson Newman College; M.A., Ph.D., University of Massachusetts-
Amherst. (1982)
- WILLIAM W. O'DONNELL, JR., Assistant Professor *Communication Studies*
B.F.A., The Pennsylvania State University; M.F.A., Wayne State University. (1983)

- THOMAS L. OHL, Assistant Professor *Mathematics and Computer Science*
B.S., Bloomsburg State College; M.Ed., Millersville State College. (1968)
- SHARON L. O'KEEFE, Instructor *Health, Physical Education and Athletics*
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- JOHN J. OLIVO, Assistant Professor, Chairperson *Business Education and Office Administration*
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- JANET R. OLSEN, Assistant Professor *Library, Assistant Acquisition Librarian*
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- NANCY A. ONUSCHAK, Associate Professor *Director, School of Health Sciences; Chairperson, Nursing*
B.S., M.S.Ed., Wilkes College; M.N., The Pennsylvania State University; D.Ed., Temple University. (1980)
- CLINTON J. OXENRIDER, Associate Professor *Mathematics and Computer Science*
B.S., Bloomsburg State College; M.A., The Pennsylvania State University; D.A., Idaho State University. (1965)
- TERRY A. OXLEY, Assistant Professor *Music*
B.M.E., University of Wisconsin; M.M.E., University of Wisconsin. (1984)
- JAMES W. PERCEY, Associate Professor *Political Science*
A.B., University of Pennsylvania; M.A., Rutgers University. (1965)
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- LAURETTA PIERCE, Professor *Nursing*
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- JOSEPH R. PIFER, Associate Professor *Geography and Earth Science*
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- ALEX J. POPLAWSKY, Professor *Psychology*
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- H. BENJAMIN POWELL, Professor *History*
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- SALIM QURESHI, Assistant Professor *Marketing and Management*
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- ROBERT R. REEDER, Associate Professor *Philosophy and Anthropology*
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- ROBERT L. ROSHOLT, Professor *Chairperson, Political Science*
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- GLORIA JEAN SCHECHTERLY, Instructor *Nursing*
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- CONSTANCE J. SCHICK, Professor *Psychology*
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(1982)
- SEYMOUR SCHWIMMER, Associate Professor *Philosophy and Anthropology*
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- JOHN S. SCRIMGEOUR, Associate Professor *Counselor*
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B.S., The Pennsylvania State University; M.Ed., West Chester State College. (1969)
- THEODORE M. SHANOSKI, Associate Professor *History*
B.S., East Stroudsburg State College; M.A., Ohio University; Ed.D., Temple University.
(1964)
- SAMUEL B. SLIKE, Assistant Professor *Communication Disorders and Special Education*
B.S., The Pennsylvania State University; M.S., The University of Scranton. (1979)
- RALPH SMILEY, Professor *History*
B.A., Brooklyn College; M.A., Ph.D., Rutgers University. (1969)
(On leave during semester II, 1985-86)
- RILEY B. SMITH, Associate Professor *English*
B.A., Ph.D., The University of Texas. (1977)
- JAMES R. SPERRY, Professor *History*
B.A., Bridgewater College; M.A., Ph.D., University of Arizona. (1968)
- WILLIAM J. SPROULE, Associate Professor *Assistant Chairperson, Health, Physical
Education, and Athletics*
A.B., Syracuse University; M.S., Brooklyn College; D.Ed., Pennsylvania State
University. (1969)
- JOHN W. STAHL, Assistant Professor *Chemistry*
B.S., Geneva College; Ph.D., The Pennsylvania State University. (1983)
- GEORGE E. STETSON, Assistant Professor *Geography and Earth Science*
B.A., Yale University; M.A., University of Delaware; Ph.D., University of North
Carolina. (1973)
- JOAN B. STONE, Instructor *Nursing*
R.N., Harrisburg Hospital School of Nursing; B.S.N., University Hospital of
Pennsylvania; M.S.N., Pennsylvania State University. (1982)
- GERALD H. STRAUSS, Professor *English*
A.B., University of Pennsylvania; M.A., Ed.D., Columbia University. (1961)
- HARRY C. STRINE, III, Associate Professor *Communication Studies*
B.A., Susquehanna University; M.A., Ohio University. (1970)
- BARBARA J. STROHMAN, Associate Professor *Chairperson, Art*
B.S., University of Maryland; M.F.A., Maryland Institute. (1969)

(On leave during academic year, 1985-86)

- DALE L. SULTZBAUGH, Assistant Professor *Sociology and Social Welfare*
B.A., Gettysburg College; M.Div., Lutheran Theological Seminary; M.S.W., West
Virginia University. (1981)
- DAVID A. SUPERDOCK, Professor *Physics*
B.S., Bloomsburg State College; M.Ed., D.Ed., The Pennsylvania State University.
(1960)
- ANTHONY J. SYLVESTER, Associate Professor *History*
A.B., Newark College of Rutgers University; M.A., Rutgers University. (1965)
- BARBARA B. SYNOWIEZ, Assistant Professor *Nursing*
B.S., University of North Carolina; M.S., Duke University. (1981)
- M. GENE TAYLOR, Professor *Physics*
B.S., Muskingum College; M.Sc., Ph.D., Brown University. (1969)
- LOUIS F. THOMPSON, Professor *Chairperson, English*
A.B., Columbia College; M.A., Ph.D., Lehigh University. (1963)
- JAMES E. TOMLINSON, Assistant Professor *Communication Studies*
B.A., M.A., California State University at Long Beach. (1980)
- JORGE A. TOPETE, Assistant Professor *Languages and Cultures*
M.A., Ph.D., University of Pennsylvania. (1983)
- PATRICIA A. TORSELLA, Instructor *Nursing*
B.S.N., M.N., University of Pennsylvania. (1981)
- JUNE L. TRUDNAK, Professor *Mathematics and Computer Science*
B.S., Bloomsburg State College; M.S., Bucknell University; Ph.D., The Pennsylvania
State University. (1968)
(On leave during semester II, 1985-86)
- HENRY C. TURBERVILLE, JR., Associate Professor *Health, Physical Education and
Athletics*
B.S., M.A., University of Alabama. (1967)
- GEORGE A. TURNER, Professor *Chairperson, History*
B.S., M.S., Eastern Illinois University. (1965)
- DANA R. ULLOTH, Associate Professor *Communication Studies*
B.A., Southern Missionary College; A.M., Ph.D., University of Missouri. (1983)
- DONALD A. VANNAN, Professor *Curriculum and Foundations*
B.S., Millersville State College; M.Ed., Ed.D., 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)
- PETER B. VENUTO, Professor *Marketing and Management*
B.A., Syracuse University; M.B.A., Ph.D., University of Santa Clara. (1980)
- J. CALVIN WALKER, Professor *Chairperson, Psychology*
B.A., Muskingum College; Ed.M., Ed.D., Temple University. (1967)
- STEPHEN C. WALLACE, Associate Professor *Chairperson, Music*
B.S., Mansfield State College; M.M., University of Michigan; D.Ed., The Pennsylvania
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 *Director, Special Services for Disadvantaged Students*
B.S., Bloomsburg State College; M.A., University of Scranton. (1978)
- R. EDWARD WARDEN, Associate Professor *Curriculum and Foundations*
B.S., Millersville State College; M.A., Villanova University. (1967)

- DAVID E. WASHBURN, Professor *Curriculum and Foundations*
B.A., M.Ed., Ph.D., University of Arizona; Postdoctoral Certificate in Multicultural Education, University of Miami. (1972)
- LYNN A. WATSON, Professor *Curriculum and Foundations*
B.S., Shippensburg State College; M.Ed., D.Ed., The Pennsylvania State University. (1966)
- ROBERT N. WATTS, Associate Professor *Marketing and Management*
B.S., Susquehanna University; M.B.A., Ohio University. (1975)
- JULIA M. WEITZ, Assistant Professor *Communication Disorders and Special Education*
B.S., Emerson College; M.S., University of Pittsburgh. (1978)
(On leave during academic year, 1985-86)
- DORETTE E. WELK, Assistant Professor *Nursing*
B.S.N., D'Youville College; M.S.N., University of Pennsylvania. (1977)
- CHRISTINE T. WHITMER, Associate Professor *Languages and Cultures*
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)
- ANNE K. WILSON, Assistant Professor *Sociology and Social Welfare*
B.A., Carleton College; M.S., University of Maryland; Ph.D., The John Hopkins University. (1980)
- KENNETH T. WILSON, JR., Associate Professor *Art*
B.S., Edinboro State College; M.S., The Pennsylvania State University. (1963)
- MARCI A. WOODRUFF, Assistant Professor *Communication Studies*
B.A., Western Kentucky University. (1984)
- MELVYN L. WOODWARD, Professor *Chairperson, Marketing and anagement*
A.B., Bucknell University; M.B.A., Ph.D., Ohio State University. (1976)
- WILLIAM S. WOZNEK, Professor *Curriculum and Foundations*
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 at Buffalo; 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 *Acting Dean, College of Business*
B.S., Bloomsburg State College; M.B.A., Lehigh University; Ph.D., the Pennsylvania State University. (1969)
- JANICE M. YOUSE, Assistant Professor *Communication Studies*
B.S., M.A., Temple University. (1965)
- JOSEPH M. YOUSHOCK, Assistant Professor *Communication Disorders and Special Education*
B.S., M.Ed., Bloomsburg State College. (1971)
(On leave during semester I, 1985-86)
- 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*
B.S.N., M.S.N., University of Pennsylvania. (1983)
- MATTHEW ZOPPETTI, Professor *Curriculum and Foundations*
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. EIMAN, M.D., *Director*

BARBARA J. SCHEELJE, M.T. (ASCP), *Educational Coordinator*

Divine Providence Hospital

Williamsport, PA

GALAL M. AHMED, M.D., *Director*

LORETTA A. MOFFAT, M.T. (ASCP), *Education Coordinator*

Geisinger Medical Center

Danville, PA

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

ALVIN SWARTZENTRUBER, M.T. (ASCP) *Educational Coordinator*

Harrisburg Hospital

Harrisburg, PA

HIM G. KWEE, M.D., *Director*

JANICE M. FOGLEMAN, M.T. (ASCP), *Program Director*

Lancaster General Hospital

Lancaster, PA

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

NADINE E. GLADFELTER, M.T. (ASCP) *Educational Coordinator*

Nazareth Hospital

Philadelphia, PA

WILLIAM J. WARREN, M.D. *Director*

SR. LAURINE GRAFF, M.S., M.T. (ASCP), *Program Director*

Polyclinic Medical Center of Harrisburg

Harrisburg, PA

JULIAN W. POTOK, D.O., *Director*

MARGARET A. BLACK, M.T., (ASCP), *Education Coordinator*

Robert Packer Hospital

Sayre, PA

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

JAMES L. BENDER, M.S., C.L.S. (NCA), *Program Director*

Sacred Heart Hospital

Allentown, PA

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

SANDRA A. NEIMAN, M.T. (ASCP), C.L.S. (NCA), *Education Coordinator*

St. Joseph's Hospital

Reading, PA

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

JEAN WADE, M.T. (ACSP), *Educational Coordinator*

St. Luke's Hospital

Bethlehem, PA

EDWARD G. BENZ, M.D., *Director*

JOANNE R. BOBEK, M.A., M.T. (ASCP) C.L.S. (NCA), *Program Director*

Scranton Medical Technology Consortium

Scranton, PA

THOMAS V. DISILVIO, M.D. *Director*

MARY GENE BUTLER, M.S., M.T. (ASCP) *Program Director*

**The Medical College of Pennsylvania and Hospital
Philadelphia, PA**

DAVID L. SAWHILL, M.D., *Director*

MARIE LEE, M.A., M.T. (ASCP), *Program Director*

Williamsport Hospital

Williamsport, PA

DON K. WEAVER, M.D., *Director*

JOHN L. DAMASKA, M.T. (ASCP), *Education Coordinator*

Wilkes-Barre General Hospital

Wilkes-Barre, PA

C. WARREN KOEHL, JR., M.D., *Director*

HELEN M. RUANE, M.T. (ASCP), *Education Coordinator*

Clinical Chemistry Program

Geisinger Medical Center

Division of Laboratory Medicine

JOHN J. MORAN, M.D., *Chairman of Laboratory Medicine*

JAY BURTON JONES, Ph.D., *Associate in Laboratory Medicine*

ARCHIMEDES D. GARBES, M.D., *Associate in Laboratory Medicine*

MILDRED LOUISE KAISER FLEETWOOD, Ph.D., *Associate in Laboratory
Medicine*

CHRISTINE E. SMULL, Ph.D., *Associate in Laboratory Medicine*

ALVIN SWARTZENTRUBER, B.S., *Educational Coordinator in the School of
Medical Technology*

ALOYSIOUS J. SHULSKI, B.A., *Supervisor of Clinical Chemistry Laboratory*

FACULTY EMERITI

- BRUCE E. ADAMS (May, 1980)
 BENJAMIN S. ANDREWS (May, 1985)
 J. WESTON BAKER (May, 1984)
 DONALD R. BASHORE (August, 1983)
 IVA MAE V. BECKLEY (May, 1970)
 R. CLARK BOLER (May, 1982)
 BOYD F. BUCKINGHAM, Vice President
 Emeritus (December, 1981)
 ROBERT L. BUNGE (August, 1983)
 C. WHITNEY CARPENTER II (January,
 1983)
 WILLARD A. CHRISTIAN (May, 1978)
 BARBARA M. DILWORTH (December,
 1982)
 EDSON J. DRAKE (December, 1982)
 VIRGINIA A. DUCK (January, 1984)
 C. STUART EDWARDS (June, 1979)
 JOHN A. ENMAN (December, 1984)
 HOWARD F. FENSTEMAKER (May,
 1963)
 HALBERT F. GATES (May, 1981)
 GLENN A. GOOD (May, 1984)
 RALPH S. HERRE (May, 1972)
 CRAIG L. HIMES (January, 1983)
 CLAYTON H. HINKEL (December, 1980)
 JOHN A. HOCH, Dean Emeritus (May,
 1975)
 KENNETH C. HOFFMAN (December,
 1983)
 MELVILLE HOPKINS (May, 1981)
 RUSSELL E. HOUK (May, 1982)
 ELTON HUNSINGER (December, 1979)
 RALPH R. IRELAND (May, 1980)
 ELLAMAE JACKSON (August, 1971)
 MARY LOU F. JOHN (December, 1984)
 ROYCE O. JOHNSON (May, 1973)
 WARREN I. JOHNSON (May, 1977)
 ELINOR R. KEEFER (July, 1968)
 ROBERT L. KLINEDINST (January,
 1983)
 CHARLES C. KOPP (May, 1985)
 PHILLIP H. KRAUSE (October, 1982)
 MARGARET C. LEFEVRE (December,
 1976)
 ELLEN L. LENSING (June, 1982)
 MILTON LEVIN (February, 1984)
 CYRIL A. LINDQUIST (May, 1975)
 THOMAS R. MANLEY (May, 1981)
 LUCY McCAMMON (January, 1958)
 MARGARET E. McCERN (May, 1976)
 JAMES H. McCORMICK, President
 Emeritus (September, 1984)
 DOROTHY O. McHALE (May, 1980)
 MICHAEL J. McHALE (May, 1983)
 NELSON A. MILLER (January, 1983)
 CLYDE S. NOBLE (May, 1979)
 HILDEGARD PESTEL (August, 1974)
 DONALD D. RABB (January, 1984)
 FRANCIS J. RADICE (August, 1985)
 EMORY W. RARIG, JR., Dean Emeritus
 (September, 1984)
 GWENDOLYN REAMS (August, 1976)
 HERBERT H. REICHARD (May, 1971)
 EMILY A. REUWSAAT (May, 1981)
 STANLEY A. RHODES (May, 1982)
 ALVA W. RICE (May, 1980)
 ROBERT D. RICHEY (May, 1983)
 KENNETH A. ROBERTS (August, 1972)
 BETTY J. ROST (May, 1982)
 RAY C. ROST (May, 1984)
 WALTER S. RYGIEL (January, 1968)
 MARTIN A. SATZ (May, 1979)
 RICHARD C. SAVAGE (May, 1985)
 TOBIAS F. SCARPINO (May, 1982)
 RUSSELL F. SCHLEICHER (May, 1962)
 BERNARD J. SCHNECK (May, 1982)
 ANNA G. SCOTT (May, 1956)
 REX E. SELK (May, 1982)
 RUTH D. SMEAL (December, 1978)
 RICHARD M. SMITH (December, 1979)
 ERIC W. SMITHNER (May, 1983)
 ROBERT R. SOLENBERGER (May, 1982)
 MARGARET M. SPONSELLER (August,
 1981)
 RICHARD J. STANISLAW (May, 1982)
 WILLIAM B. STERLING (May, 1973)
 GEORGE G. STRADTMAN (August,
 1972)
 THOMAS G. STURGEON (May, 1977)
 WILBERT A. TAEBEL (May, 1976)
 ALFRED E. TONOLO (December, 1982)
 ROBERT D. WARREN (January, 1984)
 JAMES B. WATTS (February, 1978)
 MARGARET S. WEBBER (January, 1984)
 NORMAN E. WHITE (May, 1985)
 ELIZABETH B. WILLIAMS (August, 1969)
 WILLIAM G. WILLIAMS (August, 1982)
 RICHARD O. WOLFE (May, 1980)
 M. ELEANOR WRAY (May, 1977)

*The date in parentheses is date of leave.

1. GENERAL INFORMATION

1.1 INTRODUCTION

Bloomsburg University of Pennsylvania is one of the 14 state-owned universities in Pennsylvania's State System of Higher Education charged by the Commonwealth to serve as "... a center of learning for the best possible education of the youth of Pennsylvania in business, the arts and sciences and to provide able and dedicated teachers..."

In addition to 65 undergraduate degree programs, Bloomsburg offers master's degrees in a variety of academic disciplines, and a doctoral program in elementary education is offered in cooperation with Indiana University of Pennsylvania.

1.2 ORGANIZATION

Bloomsburg University of Pennsylvania has 6,300 students and is organized in four colleges: Arts and Sciences, Professional Studies, Business, and Graduate Studies and Extended Programs. The scope and internal structure of each college is described in the succeeding chapters of this catalogue.

1.3 LOCATION

The home of Bloomsburg University is its namesake, the Town of Bloomsburg, the county seat of Columbia County. The industrial, trading and residential community of 11,717 is located on Route 11, 80 miles northeast 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 at Wilkes-Barre/Scranton on Interstate 81, and at Williamsport are 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 the **Bloomsburg Literary Institute**. A building now known as Carver Hall in memory of Henry Carver, principal at the time, was erected in 1867. It is considered, today, the university's landmark.

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 the **Bloomsburg State Normal School**.

The emphasis at the Normal School changed during the early 1920s 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, including premiering of a new degree program in Business Education.

Upon the appointment of Dr. Haas as State Superintendent of Public Instruction, Dr. Harvey A. Andruss, then Dean of Instruction and a former Director of the Business Education Department, was appointed president, a position he held until his retirement in 1969. During World War II, the U.S. Navy V-12 Officer Training Program was conducted on the Bloomsburg Campus, a service commemorated by the name of Navy Hall. In 1957, a Division of Special Education was instituted, and today, Navy Hall still houses the program.

Major expansion in facilities, faculty and student body followed. Full-time enrollment rose from 1,743 in 1960 to 5,058 in 1983.

In 1960 the school's name 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/mathematics graduate study leading to the Master of Education degree was also inaugurated. In 1968, approval was received for the Master of Arts degree; in 1970 for the Master of Science degree in 1976 for the Master of Business Administration; and in 1982 for the Master of Science in Nursing. A cooperative doctoral program in elementary education also started in 1982.

Bloomsburg is a strong, multi-purpose institution offering curricula in the liberal arts, business, nursing, allied health sciences and teacher education. Degree programs are offered at the associate, baccalaureate, and master's levels in addition to the cooperative doctoral program. The institution's name was changed to **Bloomsburg University** when Commonwealth legislation created the State System of Higher Education, becoming effective July 1, 1983. Bloomsburg's then president, Dr. James H. McCormick, became the system's interim chancellor and later the first permanent chancellor. Dr. Larry W. Jones, Bloomsburg's provost and vice president for academic affairs, is serving as the university's interim president until July 1985 when Harry Ausprich will take over the chief executive position.

1.5 ACCREDITATION

Bloomsburg University of Pennsylvania is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, The National Council for the Accreditation of Teacher Education, National League of Nursing, American Speech, Hearing and Language Association and the Pennsylvania State Board of Education. It is recognized by the American Chemical Society for excellence of its chemistry department. (See chemistry).

1.6 BUILDINGS AND FACILITIES

Campus

Bloomsburg's campus is comprised of two tracts called the lower campus and upper campus, with a total area of 173 acres.

The lower campus comprises the original campus and adjacent areas subsequently acquired. It contains several residence halls, dining hall, university store, administration buildings, 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 practice areas. Long-range plans presume further development of the upper campus for residential, academic and recreational 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, languages and cultures, communication studies, 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, an author, and a recipient of the Alumni Distinguished Service Award; their daughter, Mrs. Alex Bakeless Nason, a graduate and benefactor of the school; 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 modern classrooms, lecture halls, seminar rooms, laboratories, faculty offices, and an exhibit area; it accommodates the departments of chemistry, physics, biology, and geography 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 laureate and recipient of an Alumni Distinguished Service Award.

Sutliff Hall, completed in 1960, contains classrooms and faculty offices of the College of Business. William Boyd Sutliff, for whom the building is named, was a teacher of mathematics and the first Dean of Instruction of Bloomsburg State Normal School. Funding for the renovation Sutliff Hall was included in Capital Budget legislation enacted in 1980.

The university's newest instructional building, **the James H. McCormick Human Services Center** was completed during the 1984-85 academic year. It provides classrooms, laboratories, seminar rooms, and faculty offices for the College of Professional Studies' departments of nursing and curriculum and foundations, and for the College of Arts and Sciences' departments of communication studies, mathematics and computer science, psychology, and sociology and social welfare. It also houses the university health and learning resources center, an autotutorial laboratory and educational media laboratory, as well as radio and television studios, a photography darkroom, and laboratories to support the rapidly expanding instructional technology services. Also included in the building are the curriculum materials center, laboratories for programs in elementary and secondary education, nursing, psychology, and sociology. A major new computer laboratory is located on the first floor of the building. In addition, the building contains a number of general purpose classrooms and a multi-image projection room known as the University Forum.

Benjamin Franklin Hall, completed in 1930 for use as a campus laboratory school, is now used for 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 department of communication disorders and special education, the reading clinic, the speech language and hearing clinic and a number of other classrooms and offices.

Science Hall, called "Old Science" to distinguish it from Hartline Science Center, was built in 1906. It houses the departmental offices of history, instructional facilities for the Center for Academic Development and has several classrooms and some studios used by the art department.

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

E.H. Nelson Field House 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, a six-lane swimming pool with seating for 500 spectators, faculty offices, handball courts, classrooms, equipment rooms, a nautilus room, and special facilities for physical training and therapy. The building is used for health and physical education classes, varsity athletic contests, for recreational activities, and for other events 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 at the university.

Residence Halls, Dining Rooms, University Union

Columbia Hall, completed in 1970, is a seven-story residence hall housing 400 students. It contains lounges, study rooms, recreation areas, a special projects room, guest rooms, and an apartment for the assistant dean.

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

Luzerne Hall, a four story residence hall completed in 1967, accommodates 300 students. It has lounge and recreation areas, study rooms, and apartments for staff.

Lycoming Hall, the newest residence hall, was 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 and Schuylkill Halls are four-story residential facilities completed in 1964. Each houses 250 students and 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. The alignment of halls according to coed and single sexed residence 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 1,000 seats and a serving capacity of 2,900 students at each meal. Folding partitions permit flexibility of arrangements. A faculty/staff dining room and two lounges are also in the building. Its namesake, William W. Scranton, was governor of Pennsylvania from 1963 to 1967.

University 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 University Store for the sale of textbooks and supplies, and the Department of Safety and Law Enforcement.

Marguerite W. Kehr Union-the Kehr Union Building houses two formal lounges, a snack bar and dining area, two multipurpose rooms, mailroom and mailboxes for commuting students, game room, television room, the infirmary, an information center, automatic teller, banking facility, an information center, bowling alleys, a travel service, offices for student organizations, and Community Activities office. Its name honors the late Dr. Marguerite W. Kehr, who was Dean of Women during 1928 to 1953.

Administration and Service Buildings

Waller Administration Building, completed in 1972, contains administrative offices, conference rooms, a centralized area for the Business Office and an area for receiving, storing and distributing university 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, has a 2,000-seat auditorium with its stage planned for dramatic productions as well as general auditorium purposes. There are also 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 here from 1927 to 1939. Prior to, and subsequent, to this period he served as the Pennsylvania State Superintendent of Public Instruction.

Carver Hall, built in 1867, is the oldest building on the campus. In addition to its 900-seat auditorium, it houses the Office of the President, the Alumni Room, Alumni, Development, Institutional Advancement, and Affirmative Action offices.

Buckalew Place 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 use as the President's home in 1926.

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

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

1.8 HARVEY A. ANDRUSS LIBRARY

Andruss Library, completed in 1966, houses the university's extensive collection of bound volumes, microtexts, periodicals, and other source and reference material for study and research. The library was named for Dr. Harvey A. Andruss, who served as president of Bloomsburg from 1939 to 1969 and, who during nine years prior to becoming president, established the division of business education and served as dean of instruction.

The Andruss Library, a unit under the instructional services area, has a total collection of over 1,575,000 items. This involves a book collection of more than 300,000 volumes, including a large reference collection and over a million microforms. The library also has federal, state, and local government documents. There is a collection of over 5,600 phonograph records, a pamphlet file of approximately 7,600 items, and a Juvenile/Young Adult book collection. A special collection of books, located on the ground floor, contains first editions, autographed copies, and illustrated books of value. The collection can be used during normal library hours.

Books and periodical articles may be borrowed from other cooperating libraries. Depending on the lending library, there may or may not be a charge for borrowing materials or for photocopies of articles. Inter-library loan requests may be initiated at the Readers' Services Desk on the main floor.

DATABASE SEARCHING

Andruss Library expanded its services with the introduction, in January 1983, of computerized-data-base searching. Through DIALOG Inc., the Library will have dial-up access to 175 files in a wide variety of subjects; coverage of scientific fields is particularly thorough. These data bases contain three types of information:

- directory listings of people, firms, foundations.
- numerical information such as business and economic data, physical properties, and
- bibliographic citations to periodical articles, proceedings, etc.; about 60% of data bases are bibliographic.

Most available data bases have print counterparts (Chemical Abstracts, Foundation Directory), but as new data bases are developed an increasing percentage will be available only online.

Athletics and Recreation Areas

Redman Stadium, used for football, soccer, field hockey track events, and located on the Upper Campus, was completed in 1974. A permanent concrete stand on the west side provides seating for 4,000 spectators, and bleachers on the east side increase the total seating capacity to nearly 5,000. There is a press box for media personnel.

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 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 recently retired as head baseball coach at Michigan State University. Litwhiler, who was coached by Dr. E.H. Nelson, studied at Bloomsburg in the late 1930's and played for several major league baseball teams prior to beginning his career as a baseball coach at Florida State University.

Practice Fields and Recreational Facilities. Nine practice fields are included in the total athletic complex on the upper campus.

Both Nelson Fieldhouse on the upper campus and Centennial Gymnasium on the lower campus are used extensively for recreational activities as well as for classes and varsity athletic events.

Lower campus athletic and recreational facilities include 18 Grasstex tennis courts, nine of them lighted; softball and field hockey/lacrosse fields, and outdoor basketball and volleyball courts.

1.7 BLOOMSBURG FOUNDATION

The Bloomsburg Foundation was established in 1970 as a non-profit educational corporation to assist the institution. The Foundation may solicit, receive, and manage gifts and grants from individuals, corporations, or other foundations; its funds are used to assist the university in carrying out its educational mission.

1.9 INSTRUCTIONAL SERVICES

The Instructional Services group provides assistance to faculty and student services associated with the academic program of Bloomsburg University. The Instructional Services group is composed of the following areas: James H. McCormick Human Services Center, Learning Resources Center, and the Radio and Television Center. In addition to these service support areas, the dean of instructional services also provides coordination and assistance in academic computer resource development, faculty development, and instructional space planning and utilization.

PHOTOCOPY FACILITIES

The library has photocopy facilities which may be used by all library patrons at a minimal cost per copy.

RADIO AND TELEVISION CENTER

The Radio and Television Center has responsibility of supporting instructional television production, and recording and distributing television information for instructional purposes. Portable television recording equipment is available for instructional use through the Radio and Television Center. These studios are located in the McCormick Human Services Center.

UNIVERSITY ARCHIVES

The University Archives, presently housed on the ground floor of the Bakeless Center for the Humanities, serves as the depository for archival and historical materials for the entire university community. The collection serves students, faculty, administrators, and alumni.

LEARNING RESOURCES CENTER

The Learning Resources Center is an umbrella group of services to faculty and students providing access to a 3,000 piece print-film collection, graphic production facilities, darkroom areas, sound recording facilities, and preview rooms. Instructional transparencies, filmstrips, audio recordings, motion picture film, as well as video tapes, are made available through the Learning Resources Center. The Autotutorial Labora-

tory is used for independent study in the Center for Human Services and is made available through the Learning Resources Center.

1.10 COMPUTER SERVICES CENTER

Bloomsburg University has made extensive use of computers for more than a decade. Current computing needs for instruction, management and research are met by a central computer, the Sperry 1100-71, a powerful and versatile central processing unit, and microcomputers scattered throughout the campus. The central system, with 12 million bytes (12 megabytes) or characters of main memory, is directly accessible by both centrally located and remote terminals. Controlled by the OS-1100 operating system, the central operation supports all normal tape, disc, remote, batch and interactive functions. The Distributed Communicative Processor, a minicomputer attached to the main system, currently supports in excess of 150 student, faculty, and administrative terminals and microcomputers.

The following programming languages are available by mainframe access: ASSEMBLER, BASIC, COBOL, FORTRAN, PASCAL, PL/1, and SNOBOL. In addition, numerous special purpose languages and package programs are available; these include ASET, an author's language for computer assisted instruction (CAI), and statistical and math programs such as SCSS, SPSS, BMD, and MATH PAK.

Complementing the Sperry System is a microcomputer lab located adjacent to the student terminal room. The lab presently includes microcomputers with disk drives and color monitors, some of which can communicate with the central computer. The printers have graphic capabilities. Several units have 64K RAM, allowing PASCAL and LOGO operations. Additional microcomputers are located in various departments on campus. A separate computing system is maintained in Room 1148 in the McCormick Center for Human Services exclusively for faculty and student usage. This mini computer maintained under a UNIX operating system, operates as a stand-alone system with line printers, disc units and tape drives supporting a complement of terminals and microcomputers.

During the fall and spring semesters, access hours normally are 7:00 a.m. to 2:00 a.m., Monday and Friday; Saturday, 8:00 a.m. to 4:00 p.m.; Sunday, 12:00 (noon) to 1:00 a.m. Additional hours are scheduled as needed.

Within many academic programs including the Computer and Information Science 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 (CAI) material such as tutorials, drills and simulations to supplement classroom and lab instruction.





2. EXPENSES, FEES, AND REFUNDS

(Fees are subject to change without notice.)

2.1 COMMUNITY ACTIVITIES FEE

The Community Activities fee of \$45 per semester is charged to each full-time undergraduate student. Part-time students, taking course work on campus, are required to pay the Community Activities fee at the rate of \$3.75 per credit hour. Community Activities fees finance student activities in athletics, recreation, music, lectures, student publications, general entertainment, student organization and other student-supported programs.

2.2 BASIC FEES

Full-Time Undergraduate, Pennsylvania Residents

The basic semester fee for full-time students who are residents of Pennsylvania is \$785. An extra fee of \$66 per semester hour is charged for course loads in excess of 18 semester hours in any one semester.

Part-Time Undergraduate, Pennsylvania Residents

Undergraduate students who take fewer than 12 semester hours in a semester pay fees of \$66 per semester hour.

Full-Time Undergraduates, Out-of-State

Out-of-state undergraduate students pay fees per semester of \$1,374 for 12 to 18 semester hours. The definition of out-of-state student may be obtained from the Business Office.

Part-Time Undergraduate, Out-of-State

Undergraduate out-of-state students who take fewer than 12 semester hours in a semester pay fees of \$115 per semester hour.

Graduate (in-State or Out-of-State)

Graduate (in-state) students pay a fee of \$785 for 9 to 15 semester hours and \$87 per semester hour for less than 9 or in excess of 15 semester hours.

Graduate (out-of-state) students pay a fee of \$830 for 9 to 15 semester hours and \$92 per semester hour for less than 9 or in excess of 15 semester hours.

Summer Session Fees

Undergraduate students pay fees at the rate of \$66 per semester hour. Graduate students pay \$87 per semester hour. These summer fees apply to Pennsylvania residents and out-of-state students.

Changes in Fees or Costs

All fees or costs 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 July 1, 1985.

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.

2.3 HOUSING FEES

Residence Halls

Accommodations during the academic year in a campus residence hall cost \$531 per semester for double occupancy and \$479 for triple occupancy. The summer session housing fee is \$32 per week.

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 during the academic year; \$369 per semester for 19 meals per week or \$323 per semester for 15 meals per week. The summer session food service charge is \$25 per week for 19 meals, and \$23 per week for 15 meals. Fees for food service are payable with the housing fee 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 is charged for replacing a lost room key and \$5 for mail box 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 semester (\$45) 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 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. The deposit is refundable only under certain conditions deemed 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 *Bloomsburg University*.

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

Fees are due at times determined by the Business Office.

The university 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 university 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 accounting.

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 \$323 per semester, 19 meals per week is \$369 per semester, 10 meals per week is \$289, and 5 meals per week, per semester, is \$187. (See section 2.2 - changes in fees or costs).

Daily Rate for Transients

The daily rate for transient meals and lodging is:

Breakfast	\$1.60	Dinner	\$2.85
Lunch	\$1.90	Room	\$4

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

2.7 ORIENTATION FEES

Administrative Orientation Fee: This \$10 fee is payable by all newly admitted, degree-candidate students at the time of their initial university bill payment.

Participatory Orientation Fee: Having paid the administrative orientation fee, each student will pay a participatory orientation fee at the time of orientation attendance:

Summer orientation fee for fall freshmen - \$40.

Summer orientation fee for fall transfer students - \$25

Orientation fee for summer freshmen and Center for Academic Development (CAD) students - \$20.

See Section 3.07 for further information about orientation.

2.8 MISCELLANEOUS FEES

Diploma Fee

A diploma fee is charged at graduation as follows: baccalaureate degree, \$10; master's degree, \$10.

Transcript Fee

A fee of \$2 is charged for each transcript of a student's record.

Late Registration Fee

A late registration fee of \$10 is charged a student who completes registration after the official registration date.

Application Fee

An application fee of \$15 must be paid by each applicant, undergraduate and graduate, at the time of request for registration.

Health Service Fee

Full-time students will be charged \$17 per semester; part-time students will be charged \$8.50. (6-11 undergraduate credits or 4-8 graduate credits).

A fee of \$10 per semester is charged for regular sessions for full-time graduates and undergraduates. Part-time undergraduate students will be charged \$2.50 (1-6 credits), or \$5 (7-9 credits). Part-time graduate students will be charged \$2.50 (1-4 credits), or \$5 (5-8 credits); a fee of \$1 is assessed for a one- to three-week summer session and \$2 for a four- to six-week summer session.

2.9 REFUND POLICIES

Application Fee

The Application Fee (\$15) is not refundable.

Advance Registration Fee

The Advance Registration Fee (\$55) is not refundable.

Basic Fee

Fees for tuition are eligible for refunds when the student withdraws from school. 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

The Community Activities fee (\$45), paid as part of the advance registration deposit, is not refundable.

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 university voluntarily. No refunds are made for the \$50 housing deposit when housing contracts are broken on voluntary withdrawals from school. Room fees are refunded on the same basis as the basic fees.

In case of personal illness certified to by an attending physician, or in case of other reasons which may be approved by the Council 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 \$150 for each semester. Students may secure books and supplies at the university store. The store operates on a cash basis.

3. STUDENT LIFE AND SERVICES

3.01 INTRODUCTION

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

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

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

3.02 UNIVERSITY POLICY

“Bloomsburg University of Pennsylvania 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.”

This statement, quoted from the student handbook, **Pilot**, “Joint Statement on Rights, Freedoms and Responsibilities of Students,” has been acknowledged as a guiding principle in the normal operation of the institution. Students are responsible for understanding and abiding by the university’s rules, policies and regulations as stated in the **Undergraduate Catalogue, Pilot and Residence Hall Manual**. The extent to which a student’s physical handicap limits his/her ability to comply with these requirements should be communicated to the Office of Health Services.

3.03 STUDENT FINANCIAL AID

The financial aid programs available at Bloomsburg include grants, loans, part-time employment and scholarships. Programs sponsored by the Federal Government include the Pell Grant (formerly Basic Grant), 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, Parent Loans for Undergraduate Studies (PLUS) and Institutional (State) Student Employment. Other state agencies sponsor state grants and Guaranteed Student Loan and “PLUS” loan programs. Students who are residents of states other than Pennsylvania should contact their state higher education department for further information.

Limited financial assistance is available to continuing Bloomsburg University students through university scholarships. Interested students should directly contact the Financial Aid Office.

All students wishing to apply for financial assistance must complete the State Grant/Federal Student Aid 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 Bloomsburg students and is available upon request from the Financial Aid Office.

All financial aid programs are regulated by the Department of Education, the Pennsylvania Higher Education Assistance Agency (PHEAA) and/or Bloomsburg University policy. Accordingly, it is important to understand that a student may lose financial aid by failing to maintain satisfactory progress towards completion of his/her degree requirements as prescribed in in the *Bucks for Huskies* brochure.

Further information concerning financial aid may be obtained by contacting the Financial Aid Office, Room 19, Ben Franklin Building, or by calling (717)389-4498.

3.04 STUDENT HOUSING

On-Campus Housing

The university 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 university reserves the right to assign rooms and roommates.

Housing and food services are provided on a combined basis only 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 residence life.

Transfer students who wish to live on campus should contact the Residence Life Office upon acceptance to the university and payment of admissions fee and housing deposit.

A 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 year; they must seek off-campus accommodations for their final year of study. Students not eligible to go through the lottery (more than 65 credits or residing off campus) may request their names be placed on a waiting list for on-campus housing. Eligibility requirements are 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 Residence Hall Contract* and other housing literature.

Off-Campus Residency

All off-campus residences fall within the category of "independent" student housing; that is, they are privately-owned and operated. This designation means that **THE UNIVERSITY DOES NOT APPROVE OR RECOMMEND RESIDENCES.** Student off-campus residences are subject to periodic inspection by officials of the Town of Bloomsburg and dwellings with four or more tenants must also meet the standards of the Pennsylvania Department of Labor and Industry.

Although students must rely on their own initiative to find suitable accommodations, the Residence Life Office offers many programs and services for persons seeking housing in town. Essentially a referral agency, the office collects data on off-campus housing opportunities, prepares housing and landlord directories and provides other useful information of interest to student/faculty tenants and their landlords. Before any rental property in the Town of Bloomsburg is accepted for publication in the university housing directory, the owner must submit his/her premises to an inspection by the town Code Enforcement Office and sign a statement pledging to provide equal opportunity in the rental of the property.

Because the university does not assign students to off-campus residences, negotiations are the sole responsibility of the students and the landlord. However, the Residence Life Office will gladly advise students on methods of solving such problems, and, if deemed appropriate, residence life personnel will mediate student-landlord disputes, but only on an informal, non-legal basis.

Students planning to live off campus should have a clear understanding of their rights and responsibilities as tenants. Copies of model leases, apartment inventory checklists, departure notices, town street maps are available to interested students. Upon request, residence life personnel will help student renters conduct pre- and post-occupancy inventories of their apartments. Off-campus students are advised to obtain insurance coverage for their belongings, since most landlords do not assume liability for the 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 university community. The university cannot provide sanctuary from the law nor can it be indifferent to its reputation in the community it serves.

3.05 COMMUNITY GOVERNMENT ASSOCIATION

All full-time undergraduate students are members of the Community Government Association. Graduate students and full-time faculty members who have paid their Community Activities fee are also members. Student Senate meetings are held every other Monday evening 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:

- | | |
|---|--|
| Accounting Club | Lacrosse Club |
| American Chemical Society | La Esquina Espanola |
| American Marketing Association | Le Cercle Francais (French Club) |
| The American Society for Personnel Administration | Luzerne Hall |
| Association of Resident Students | Lycoming Hall |
| Bicycle Club | Madrigal Singers |
| Bloomsburg Players | Maroon and Gold Band |
| Bloomsburg Society of | Mass Communication Club |
| Cinematographers | Mathematics Club |
| Bloomsburg Christian Fellowship | Medical Technology Club |
| Campus Child Care Association | Montour Residence Hall |
| Campus Crusade for Christ | Music Educators National Conference |
| Campus Scouts | Northumberland Hall |
| The Voice | Nuclear Awareness of Bloomsburg University |
| Catholic Campus Ministry | Nurses Association |
| Cheerleaders | Obiter |
| Chess Club | Bloom Magazine |
| Circolo Italiano | Phi Beta Lambda |
| Circle K | Planning Club |
| Columbia Hall | Pre-Law Club |
| Community Government Association | Protestant Campus Ministry |
| Community Arts Council | Project Awareness Committee |
| Commuters Association | Psychology Association |
| Commonwealth Association of Students | Quest Student Leadership Group |
| Concert Choir | ROTC Air Force |
| Council for Exceptional Children | Schuylkill Hall |
| Dance Troupe | Senior Class |
| Data Processing Club | Ski Club |
| Diplomatic Society on Human and International Ties | Society of Physics Students |
| Earth Science Club | Sophomore Class |
| Economics Club | Sociology Club |
| Elwell Hall | Student Speech and Hearing Association |
| Environmental Awareness Club | Student PSEA |
| Fellowship of Christian Athletes | Students for Environmental Awareness |
| Forensic Club Forensic Society | Studio Band |
| Freshman Class | Student Art Association |
| Hillel (Jewish Fellowship) Honor Society of Nursing | Student Nursing Association |
| Husky Singers | Student Organization of Adult Resources |
| Ice Hockey Club | Students Organized to Uphold Life (SOUL) |
| Image | Table Tennis Club |
| Intercollegiate Bowling Club | Third World Culture Society |
| International Affairs Club | United Women's Organization |
| Junior Class | University Community Orchestra |
| Karate Club | Volleyball Club |
| Kehr Union Program Board | Waterpolo Club |
| Kehr Union Governing Board | WBUQ |

Weightlifting Club
 Women's Choral Ensemble
 Women's Coalition

Young Democrats
 Young Republicans
 Youth CARC

3.06.2 PUBLICATIONS

Students who are interested in journalism have an opportunity to join the staffs of 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 of Journalism are given in Chapter 7.

THE VOICE

The university student newspaper, published three times weekly, is regarded as the official student voice on campus. It is funded by the CGA budget and distributed free to the university community.

OBITER

This is the annual pictorial highlights of activities at BU throughout the year. It is funded by the CGA and is distributed free to members of the senior class upon graduation. Other members of the university community may purchase copies.

BLOOM MAGAZINE

The campus magazine reports on major events of the semester, and also provides students with an outlet for their creative works. It is distributed at the end of every semester.

PILOT

The official student handbook is edited by students under the supervision of the dean of student life and the director of university relations. It contains essential information about the requirements, procedures and policies established by the university.

TODAY

This daily publication from the Office of the Director of Student Activities and Kehr Union announces activities and meetings and carries news of organizations and departments.

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:

Honor and Professional Societies

Alpha Psi Omega

Delta Mu Delta

Delta Phi Alpha

Gamma Theta Epsilon

Kappa Delta Pi

Kappa Kappa Psi

Kappa Mu Epsilon

Omicron Delta Epsilon

Phi Kappa Phi

Phi Sigma Pi

Phi Alpha Theta

Pi Kappa Delta

Pi Omega Pi

Psi Chi

Sigma Tau Delta

Society for Collegiate Journalists

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 organization are:

Beta Sigma Delta	1966	
Delta Omega Chi	1965	Indefinite suspension
Delta Pi	1967	
Kappa Alpha Psi	1981	Probationary*
Lambda Chi Alpha	1967	National September 1970
Phi Sigma Xi	1966	
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 ten social sororities. The Council coordinates the rushing and pledging activities and endeavors to enhance friendship and social relations between sororities and individual women. The sororities are:

Alpha Kappa Alpha	1980	Probationary*
Alpha Sigma Tau	1967	National 1979
Alpha Sigma Alpha	1979	National 1979
Chi Sigma Rho	1967	
Delta Epsilon Beta	1966	
Phi Delta	1964	
Phi Iota Chi	1974	
Sigma Sigma Sigma	1967	
Theta Tau Omega	1968	

(*Probation means the organization has less than 15 members.)

3.06.6 KEHR UNION

The Kehr Union contains the following facilities: Ground Floor - program board, games area, bowling alley, post office, Presidents' Lounge, The Voice office, automatic banking machine, and television rooms; First Floor - snack bar, multipurpose rooms, travel service, Quest office, information desk, duplicating and typing room and administrative offices; Second Floor - offices for student organizations, Obiter office, coffeehouse, conference rooms, listening/meditation room and Community Activities Office.

The Program Board plans the activities held in the Union; the Kehr Union Governing Board authorizes policies and procedures for the use of the building and the University 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 Business Office, Waller Administration Building.

Members of the university community may eat in the Scranton Commons at published transient rates. The Faculty/Staff Dining Room is open to faculty and staff during the lunch hour, Monday through Friday.

Group meals are available to campus organizations; these may be arranged through the food service vendor subject to approval of the Residence Life Office and 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 university community and visitors to the campus.

University Student Health Services

The University Health Center is located on the third floor of the James H. McCormick Center for Human Services. All students seeking health care or counseling about a health problem should report to the Health Center between the hours of 7 a.m. to 11 p.m. Monday through Friday and on Saturday or Sunday, 9 a.m. to 1 p.m. When the Health Center is closed, students may report directly to the Bloomsburg Hospital Emergency Room.

The University Health Center, staffed by a registered nurse and the university physician serves as a walk-in clinic. At the request of students, physician's appointments may be made by the nurse on duty. Services received at the Health Center are free and covered by the health services fees. Those services received by students at the Bloomsburg Hospital will not be free except the Emergency Room fee.

Class Absence Due to Illness

The Health Center does not issue medical excuses except in the case of extended illness which necessitates convalescence away from campus or strict bed rest. In this case, the university physician will recommend that an excuse be granted by the professor. The university nurses and physicians recognize the professor's right to determine if a student should be excused from class.

In case of other absences due to family deaths or other family emergencies, the Office of Student Life will contact the student's professors. In case of psychological concerns, The Center for Counseling and Human Development will contact the student's professors. These notices are not excuses, but notification.

Health Service Fee

All full-time undergraduate and graduate students will be assessed \$17 per semester for a Health Service Fee. Part-time undergraduate students scheduling 6-11 credits will be charged \$8.50. Students who change their status from part-time to full-time at the beginning of the semester will be billed for the \$8.50 difference.

Undergraduates with five or less credits will not be charged. Part-time graduate students scheduling six credits will be charged \$8.50 while graduate students scheduling three credits will not be charged.

Student teachers and/or students on internships not residing in the Bloomsburg area will not be charged. They may request an exemption by sending a written request to the Business Office. Those students enrolled in summer sessions are assessed \$1 for each three week summer session.

The monies collected from this fee will pay for the Health Service that has been designated by the Pennsylvania Legislature as an auxiliary function of the institution. These funds are expended for the salaries of all individuals related to Health Services such as the doctors and nurses, plus the cost of the Hospital Emergency Room Fee Waiver Contract, medical supplies, utilities, office supplies, self-help care unit and transporting of students to and from the Bloomsburg Hospital and Geisinger Medical Center. In addition, comprehensive gynecological health care is available at a reduced cost to students at the Family Planning Clinic, Fifth Street, Bloomsburg, Pennsylvania 17815.

Ambulance Service

Ambulance service paid for by the Student Health Services Center is available to students of the university. 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 university. See the *Pilot* for instructions for calling an ambulance.

Student Insurance

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

The current policy will pay up to \$2,500 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. For example, specific amounts are allocated for hospital room charges, surgical operations and up to \$15 per visit to the physician starting with the second visit. A major medical clause will reimburse a student for 80% of all reasonable expenses actually incurred in excess of \$2,500 up to but not to exceed \$10,000. Coverage is also available for a dependent's spouse, children up to 19 years of age, or maternity expenses. 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 which are available at the University 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, playing or traveling as a member of an athletic team but does not cover injuries sustained in intramural sports or other injuries or illnesses.

The basic benefit period for treatment per injury is 52 weeks, with a maximum benefit of \$2,500. Benefits are payable in excess of all other insurance on claims involving hospitalization or surgery. This means that the university insurance company is the **PRIMARY** insurer on **ALL** claims other than those requiring hospitalization or surgery. Injuries involving hospitalization or requiring a surgical procedure must be claimed first under the parent's insurance policy. Should the parent have no other coverage, the university's insurer would then become primary.

For claims which exceed \$2,500 within two years, a catastrophe plan becomes effective with coverage up to \$90,000 extending the benefit period to a maximum of three years. The catastrophe benefit is on a 80/20 co-insurance basis. Also, the

\$90,000 catastrophe coverage is on an EXCESS basis. This means any claim that exceeds the basic \$2,500 must be submitted to the athlete's personal insurance company prior to any payment or consideration by the university's company.

The maximum benefit for injury to sound natural teeth is \$200 per tooth. Damage to temporary teeth (bridge, partial, etc.) is not covered.

The Center for Counseling and Human Development

The Counseling Center assists students in adjusting to campus life in developing their own human growth potential. The Counseling Center faculty is actively involved in providing individual counseling and workshops in a variety of areas. Some of these areas include study skills, assertiveness, effective communication, racism, sexism, human sexuality, drug and alcohol abuse, eating disorders (anorexia and bulimia), stress and relaxation, time management and many other topic areas which relate to daily living. In addition to individual counseling, the counselors present outreach and group seminar-workshops in classes and resident halls.

The center also coordinates and directs three other major programs: University Student Health Services, Orientation and Institutional Testing (GRE, NTE, MAT, CLEP, GMAT, LSAT). For additional information regarding these programs, call (389-4255) or walk in. The center also provides professional consultation to faculty and staff. They also provide the initial counseling and referral for permanent and temporary withdrawal from the university. In addition, the center provides specialized counseling to students who participate in the Act 101 and EOP programs, and advises students on non-academic and academic grievances. All services and records are confidential. Release of any information to other person(s) and agencies is provided only with the verbal and written consent of the student.

The Center for Counseling and Human Development is located on the top floor of the Ben Franklin Building, Room 17. Office hours are 8 a.m. - 4:30 p.m., Monday through Friday. Special appointments are available weekends and/or evenings. Twenty-four hour coverage is available by calling the center at 389-4255.

Institutional Testing

Special national tests for special purposes are administered by the coordinator of testing upon request as a service to the Bloomsburg University community. Special requests should be made to the coordinator by stopping at Ben Franklin Room 17 or by calling 389-4255.

Such tests as the GRE, MAT, NTE, and CLEP are administered on campus on a regular basis. Applications for these tests and the GMAT, LSAT, Pharmacy, and Optometry tests are available in the Center for Counseling and Human Development, Room 17, Ben Franklin Building. Further information concerning these and other tests may be obtained from the Center for Counseling and Human Development.

Orientation

Bloomsburg University is committed to the belief that a strong beginning is critical to a student's attaining the greatest possible benefit from his or her college education. Consistent with that belief, the university provides a comprehensive orientation program for all newly admitted students. These programs are administered through the Center for Counseling and Human Development.

Freshmen entering in the fall semester are required to participate in one of four summer orientation sessions. Parents and families are urged to attend on Sunday when several activities are scheduled for them. In addition to the freshmen sessions, there is a special orientation session for fall transfer students and sessions each semester for non-traditional students. For students whose initial enrollment is in summer school or in January, orientation is held on a Sunday prior to their first day of classes. Informa-

tion about orientation and the university is sent to all new students when they have been accepted by the university and have paid their admission fees. Fall freshmen receive this information in early May prior to their fall enrollment.

At the university, enrollment involves much more than an educational endeavor. There are career, personal and social concerns which students need to address, all of which are important to achieving success. Orientation helps to meet such concerns in a variety of ways. Orientation provides for the initial contacts with faculty in the crucial academic advisement process, familiarizes students with the university, its people, programs, services and facilities and with one another; promotes good human relations among people from varied racial, economic and social backgrounds and provides for completion of certain pre-enrollment matters involving scheduling, identification cards, meal tickets and program evaluation.

Orientation helps students make a good beginning, but it cannot provide all that they need to know. Therefore, students have the responsibility of familiarizing themselves with appropriate segments of the *Undergraduate Catalogue* and *Pilot*, and with programs and policies pertinent to them. Assistance is available when problems or questions arise. See Section 2.7 for orientation fees. For additional information, call the Orientation Office at 389-4255 or stop in Room 15 of the Ben Franklin Building.

University Store

The University Store sells books, supplies, imprinted clothing and many other items. Normal hours are from 8 a.m. to 7:30 p.m. on Monday and Tuesday, 8 a.m. until 4:30 p.m. on Wednesday, Thursday and Friday, and from 9:30 a.m. until 1 p.m. on Saturday.

Campus Postal Service

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 and commuter students.

The Community Arts Council

The Community Arts Council is supported by the Community Government Association. The council consists of 20 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 Activities card. Area residents who purchase community patron cards are also admitted to cultural events free. A cultural affairs schedule is published each fall. All patrons of the Community Arts Council receive a monthly newsletter announcing events and activities.

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 each spring.

Permanent Art Collection

The Department of Art maintains a permanent art collection with more than 300 works of art displayed across the campus. Numerous pieces of outdoor sculpture are exhibited on the campus.

Career Development Center

The Career Development Center offers career counseling and planning services to all Bloomsburg undergraduate, graduate, continuing education students and alumni. In addition to individual counseling, an up-to-date Career Laboratory, containing printed materials and audiovisual equipment, is available to students. The Career Development and Life Planning Course, offered by the Curriculum and Foundations Department, provides a unique opportunity for undergraduates 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. DISCOVER, a computer based, career guidance system, is available for students interested in making career decisions. Other services offered by the center include campus interviews, vacancy lists and credential services.

Special Services for Disadvantaged Students

Special Services for Disadvantaged Students, a federally funded academic support program, seeks to serve a part of the population of Bloomsburg University students who are experiencing academic difficulty. The project offers tutorial instruction in core areas of reading, writing, science and mathematics, as well as academic support referral in any course in which a student is encountering difficulty. The project also provides information and referral services in the areas of financial aid, career information and counseling services. The project, which works with the university Center for Academic Development, operates primarily during evening hours to assure maximum availability of services to the student population.

The project office is located in Room 10, Old Science Hall. Anyone interested in obtaining more information concerning the project is encouraged to call 389-4278 or 389-4275.

Veterans' Office

An office for veterans is maintained in the Office of the Registrar, Room 6, of the Benjamin Franklin Building. It is staffed by several work-study veterans whose duties consist of certifying to the Veterans Administration enrollment of veteran students as well as dependents and widows of veterans. Assistance is given in education-related matters such as educational benefits from the V.A., tutoring and financial aid.

3.08 QUEST

Quest, a program of outdoor pursuits, was begun in 1974 to help individuals develop their own unique potential and to encourage their personal pursuit of excellence. Modeled after the world-wide Outward Bound movement, QUEST is designed to provide the students and faculty/staff of Bloomsburg University, as well as members of the community, an opportunity of experience learning by doing.

QUEST environments are as varied as the people who participate; wild rivers, forested ridges, silent wonderlands of snow and ice, vertical rock walls, BU's wooded backyard or gym full of strangers playing cooperative games. Whether natural or man-made, they are catalysts for learning.

QUEST is not an outing club, but a diverse program that utilizes challenging outdoor and indoor experiences to help individuals gain a positive insight into their potential as human beings. QUEST courses encourage the development of self-confidence, leadership, responsibility, trust, initiative and sensitivity.

QUEST experiences come in all shapes and sizes. Participants may be involved in workshops on leadership, communication or group facilitation, cooperative and initiative games, backpacking, rafting, cross country skiing, biking, mountaineering, rock climbing, urban adventures, canoeing, caving, winter camping, snowshoeing or a ropes course.

QUEST schedules a wide variety of courses each season that are open to students, staff, faculty and community members. During the school year, QUEST arranges courses with academic departments, faculty and student organizations. In addition, QUEST contracts with institutions and agencies from the community for courses that run the gamut of experiential/adventure education.

QUEST offers two special programs in addition to the regular schedule of courses. The Leadership Development Program is a place for aspiring outdoor leaders to learn technical outdoor and group process skills while increasing self-confidence, personal maturity and responsibility. Through workshops and experience, students develop their leadership skills. Upreach is a five-day-long outdoor experience offered to all incoming freshmen in conjunction with their summer orientation program.

QUEST seeks to encourage people to explore their own personal "magic" in an atmosphere of honesty and genuine concern for oneself and others.

3.09 ATHLETICS, INTRAMURALS, RECREATION

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

The intercollegiate program includes: baseball, basketball, cross country, football, golf, soccer, swimming, tennis, track and wrestling for men; and basketball, field hockey, cross country, lacrosse, softball, swimming, tennis 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 women students include: volleyball, cageball, basketball, badminton, shuffleboard, table tennis, softball, horseshoes, flag football, bowling, tennis, racquetball and floor hockey.

Intramural co-educational sports include: teniquoit, volley ball, softball, tennis, horseshoes, golf and racquetball.

When not occupied for instruction, intercollegiate athletics, or intramurals, athletic facilities are made available for recreational use by the students. These include an indoor track and tennis court, nautilus equipment, a weight room and sauna, racquetball courts, two swimming pools, an adaptive lab and a Physical Fitness Center.

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 Law Enforcement.

Freshmen and sophomores residing in campus residence halls are not eligible to operate and/or park a motor vehicle on the campus and should not bring them to the town of Bloomsburg.

Classification of students is in accordance with academic credits earned as follows: freshmen 0-31; sophomores 32-63; juniors 64-95; seniors 96 or more.

Requests for special permission to have a motor vehicle on campus for students not normally eligible are covered in Section 103.

All staff, faculty and commuting students must register any motor vehicle they drive on the campus. Parking decals are to be obtained at the Safety and Law Enforcement Office within 24 hours after employment, registration or arrival on campus. Failure to adhere to this provision will result in a \$5 penalty. Students may obtain only

one valid decal at a time; however, emergency situations may warrant issuance of a temporary permit.

Residence Hall juniors and seniors are eligible for permits to park in an area of the hospital parking lot designated for green decals.

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 GRIEVANCES

Academic Grievances

Procedures have been established to provide students with a system to grieve complaints of alleged academic injustices relating to grades or other unprofessional conduct in the traditional teacher/pupil relationship. They are outlined in the student handbook, the *Pilot*.

Non-Academic Grievances

Procedures are also available to provide students with a system to grieve complaints of alleged injustices relating to violation, misinterpretation or discriminatory application of non-academic policies and procedures, and/or the conduct of professional, non-professional and student employees. These procedures are outlined in the *Pilot*.

3.12 REPRESENTATIVE ASSEMBLY

The Representative Assembly seeks to apply the principle of collegiality to governance. It is an organization of students, faculty, administrative officers and support staff who are elected by their peers, to encourage communication, and promote increased participation of the varied sectors of the university community in policy-making.

The assembly serves as a forum for the discussion of institutional matters, a framework for the maintenance of a coordinated committee system and an organization to recommend policies: Five standing committees, administration, student life human relations, institutional life and planning coordinate the work of several sub-committees and report regularly to the assembly.

3.13 CAMPUS CHILD CENTER

The BU Campus Child Center is located in the basement of Elwell Hall. Its services provide care for preschool children (ages 2-6) of BU students and employees from 7:45 a.m. - 5 p.m. Monday through Friday (fall and spring semesters). School-age children (ages 6-10) are accepted for care when the public schools have a holiday and the university is in session. There is also a summer program designed for children ages 2-10. Parents can utilize the center on a drop-in or full-time basis throughout the year. However, all children must be registered in advance and toilet trained. Registration materials can be obtained at the center.

The Campus Child Center is licensed by the Pennsylvania State Department of Public Welfare. It is governed by the Pennsylvania State Day Care Service for Children Regulations. The Community Government Association provides funding to help support the center.

The center provides a nursery school program designed especially for the growth and development of the preschool child. Varied activities are planned to meet the social, emotional, cognitive and physical needs of the child. The wholistic, developmental approach provides the flexibility to meet individual differences. Quiet and active

play, small and large group activities, snack, rest and sleep are included. The curriculum is "child centered," providing numerous opportunities for the children to learn when they show interest and readiness. It is "teacher directed" through guidance and places an emphasis on creative learning, discovery and exploration. The program provides opportunities to strengthen individuality and cognitive processing abilities in order to prepare the children for the academic learning that will take place in elementary school.

The operating fees for the center are as follows:

Students	\$.75/hour 1st child (Community Activities paid)
	\$.50/hour each additional child
	\$20/week fulltime (over 5 hours a day)
	\$1.25/hour 1st child (Community Activities not Paid)
	\$.75/hour each additional child
	\$35/week full time (over 5 hours a day)
Staff	\$1/hour for 1st child
	\$.50/hour each additional child
	\$30/week fulltime (over 5 hours a day)
Faculty	\$1.25/hour 1st child
	\$.75/hour each additional child
	\$35/week fulltime (over 5 hours a day)

All faculty and staff members are required to pay the Community Activities fee. Operating fees are subject to change. Parents will be notified if circumstances arise requiring the center to be closed. For more information, contact the director, at 389-4547.



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 University
Bloomsburg, PA 17815
717-389-4316

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 \$15 must be paid prior to consideration of the application.

Freshman applicants are admitted to the university in only one of eight academic categories: Allied Health Sciences, Arts and Sciences, Business Administration, Business Education, Computer Science, Interpreting for the Deaf, Nursing or Teacher Education. Students may petition for an internal curriculum change after enrollment. Transfer into high demand programs is possible but not guaranteed.

4.03 CRITERIA FOR EVALUATION

Admission to Bloomsburg University 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

An applicant must have on file scores of the Scholastic Aptitude Test of the College Board. It is the responsibility of the applicant to arrange for the test and to request the forwarding of the scores directly from the Educational Testing Service at BU. 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 their economic background or 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 an applicant 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 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.)

Most students admitted through the center are expected to participate in a summer program prior to the first semester of their attendance, where special assistance in tutoring and counseling is given to address specific academic, financial and social problems. Permission to be exempted from this requirement can only be granted by the director of the Center for Academic Development.

Inquiries should be sent to the director of the Center for Academic Development or to the dean of admissions. (See Section 6.3 for course offerings).

4.06 EARLY ADMISSION

Outstanding high school students may be considered for admission prior to high school graduation. In addition to strong achievement and high aptitude, applicants for early admission must have the 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 was previously enrolled, or at the time of application is enrolled, in another college or university is a transfer applicant.

The information supplied in Sections 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. 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 Bloomsburg University dean of admissions, regardless of whether credit was earned at the other institution(s).

A transfer student may be considered for admission if he/she is certified as holding good standing academically and otherwise in the college last attended and having an overall 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 (717-389-4316). 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 p.m.

Several Saturday 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 departmental meetings. Participation in one of these visitation days may be more meaningful than a personal interview because applicants have the opportunity to meet directly with academic faculty in the department(s) 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, and neighboring states, participating in approximately 80 college night/career day programs as well as 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

Once a newly admitted student has paid the advance deposits, the next step is orientation. For more information about this program, see Section 3.07.

4.11 NON-DEGREE

Admissions procedures for undergraduate non-degree credit are outlined in Chapter 11.

4.12 READMISSION OF FORMER STUDENTS

Students, formally admitted to degree study and attended Bloomsburg University and failing to enroll for any academic semester without being on a temporary withdrawal, regardless of the reason, must apply for readmission if they wish to re-enter the university.

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

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 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 students under academic dismissal do not enter into subsequent computations of the quality point average, but the previous credit is included in their cumulative credit. Students 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 TEMPORARY WITHDRAWAL

A student may request a temporary withdrawal for a specified period by securing the appropriate forms at the Center for Counseling and Human Development. To be eligible for a temporary withdrawal, completed forms must be submitted to the Office of Admissions for processing. A student must be in academic good standing or making minimal progress toward good standing and must request the temporary withdrawal prior to the registration date of the intended period of absence.

A student on a temporary withdrawal is assured a place in the semester designated for return provided the instructions that are part of the temporary withdrawal agreement are fulfilled and advance deposits are submitted at the time designated by the dean of admissions.

A student who returns from a temporary withdrawal of a calendar year or less in duration, is responsible for the graduation requirements and academic policies that applied at the time the temporary withdrawal was requested. A student who returns from a temporary withdrawal of more than one calendar year duration, must satisfy the graduation requirements and academic policies which exist at the time of return and is then classified as a readmitted student.

4.14 HEALTH RECORD

An applicant who is offered admission must submit a medical examination report form prior to enrollment. The appropriate examination report form is forwarded to the applicant upon receipt of advanced fees.

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

4.15 ADVANCED PLACEMENT AND CLEP.

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 university recognizes two external examination programs: the College Level Examination Program (CLEP) and the Advanced Placement Program of the College 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 EXPERIENCE

The recommendations of the American Council on Education as stated in its Guide to Evaluation of Educational Experience in the Armed Services are: The applicability of such credit to the requirements of the student's curriculum is determined by recommendation of the dean of the college and confirmation by the provost and vice president for academic affairs. *United States Air Force-I* courses validated through college-level examinations are subject to the provisions for acceptance of correspondence courses. Qualified veterans enrolling in military science are eligible for placement into the advanced course based on their prior service and desire to seek a commission through the Reserve Officers Training Corps program.

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 University. Each summer the university 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 universities in the State System of Higher Education. Bloomsburg 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 by contacting the coordinator of international education.





BY A. ANRUSS LIETA

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, 1985. If there are subsequent changes which are effective for 1985-86, 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

Students with disabilities should contact the Office of the Registrar to make special arrangements for scheduling of classes and registration.

Student Responsibility

It is the responsibility of the student to know and observe the academic policies and regulations of the university; 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 university in graduation or curriculum requirements; degree students who attend without interruption may choose to satisfy either the requirements as they existed at the time of their entrance or the new requirements; if they elect to satisfy the new requirements they are responsible for them in toto. All students who are readmitted to the university and part-time students must apply to the Provost and Vice President for Academic Affairs for permission to be graduated under the requirements existing at the time of their original admission to Bloomsburg.

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 *undeclared* on the application instead of specifying a curriculum. These applicants will be considered as general studies students.

Students with questions or problems should seek assistance in the Office of Academic Advisement, Benjamin Franklin 16.

Students seeking tutorial services or other developmental studies support should contact the tutorial coordinator in the Center for Academic Development. This individual works closely with departmental advisers, the Center's writing coordinator, reading coordinator, and math coordinator, psychological counselor and the recruitment and orientation specialist. A variety of academic support services can be tailored to meet the need of the individual student.

Registration and Scheduling of Classes

Students register by scheduling classes and paying fees (refer to Section 2.0 for a description of the fees). The scheduling of classes is usually completed during the prior semester. Classes in progress for the current semester always constitute an obligation. All registration procedures for the next semester shall not conflict with this obligation. The dates for registration and advisement are announced by the registrar. To register, students obtain a class schedule booklet, meet with their advisers and complete a registration form which is then presented to the registrar.

Seniors will be registered first, followed by juniors, sophomores, and freshmen. Incoming freshmen for the fall semester will have their schedules prepared in advance with opportunity for counseling and schedule changes during the orientation period.

All students must complete English Composition I and II (or their equivalent) by the end of their sophomore year.

Students shall not be required to take part in co-curricular activities until after 3:30 p.m. Registration activities have precedence over unscheduled meets, practices, etc.

Students off-campus at the time of the registration, due to student teaching, internships, etc., will prepare their proposed schedule which will be processed at the appointed time with those of their peers. These students will need the supervisor's signature and must mail their registration form to the registrar.

Change of Registration (Schedule Changes)

A course or courses may be dropped except by first semester freshmen during the schedule change period (the first six days of classes) but none may be added except for extenuating circumstances.

All courses agreed to with the adviser prior to registration shall constitute a full class schedule. Should the student drop a course during the schedule change period (the first six days of the semester), the student will not be permitted to add a course except under extenuating circumstances.

Late Registration

A student may register late until the close of business on the sixth day of the semester or the first Wednesday following a summer session registration. There is a special fee for late registration unless the student presents a medical excuse at the time of registration.

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 College (or his/her designee) 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

Any student except a first semester freshman may drop a course during the schedule change period (the first six days of the semester). When a course is dropped, it is removed from the student's schedule entirely. However, a student may not add a course except under circumstances noted in the above section. After the schedule change period and continuing until one week past the middle of the semester, if a student withdraws from a course a grade of "W" will be recorded. As a means of notification of the instructor of the intent to withdraw, a student is required to obtain his/ her instructor's signature on the withdrawal form.

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

Prior to the last week of classes, in exceptional circumstances and for compelling and justified reasons, the dean of the college in which the course is being taught may waive these restrictions.

A limit of four (4) withdrawals during the degree program shall apply. (Withdrawal from the university is an exception.)

Withdrawal from the University

A student may withdraw from the university by securing the preliminary withdrawal form at the Center for Counseling and Human Development, Ben Franklin 17, at which time the student will receive information and exit counseling regarding the withdrawal.

The student then presents the preliminary withdrawal form to the Office of the Registrar, Ben Franklin 6, at which time the registrar will process the official withdrawal.

Students withdrawing in absentia must make a written request to the registrar.

When students withdraw during a semester, the grade of W is recorded for each of the courses on the student's schedule if the withdrawal occurs prior to the beginning of the final examination period. Students may not withdraw during the final examination period.

The effective date of the official withdrawal is the date on which the student signs the official withdrawal form in the Registrar's Office or the date on which the written request is received by the registrar for a student withdrawing in absentia.

Students failing to register for the next semester are classified as withdrawn and must apply for readmission. Non-degree students may continue to register without readmission provided their next registration is within four semesters of their last enrollment.

An individual who discontinues attendance without clearing all obligations to the university waives the right to a transcript and future readmission until all obligations are cleared.

Policies which cover reimbursements are stated in Section 2.8

In addition to withdrawing from the university, students may be absent for extended periods of time. The categories are as listed below:

Temporary Withdrawal is granted by the Admissions Office after the student completes the withdrawal procedures listed above and when the student files a temporary withdrawal form with the Admissions Office. Refer to Section 4.13 for policies regarding temporary withdrawal.

Clinical Experience absence is authorized by the Registrar when the student is participating in the clinical year of the medical technology program. Students in this category are not charged fees by the university during the time of their clinical experience in a cooperating hospital.

Study Abroad absences authorized by the registrar when the student is participating in a university sanctioned exchange program with a cooperating university abroad. The student may be charged fees in accordance with the agreement with the cooperating university.

Completing Degree Elsewhere absence is authorized by the registrar when the student receives permission from his or her adviser and dean to complete course requirements at another approved institution.

Mandatory Leave is recorded by the registrar when the student is required to leave the university due to medical and/or psychological reasons or is suspended.

Pass-Fail Policy

After attaining sophomore standing, a degree student may elect credit courses on a pass-fail basis 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.

A student may request to take a course on a pass-fail basis until the close of the business day on second Friday of the semester or the first Wednesday of each Summer Session.

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 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 of 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.

A 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, re-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 university (i.e., four instead of two pass-fail opportunities.)

Course Repeat Policy

A maximum of four courses (not more than 13 semester hours) 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 University 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 16 semester hours. A student in good standing is limited to 18 semester hours, unless he/she receives permission for an overload by his/her academic adviser. A grade point average of 3.00 or higher is required of the student before permission can be granted for an overload. (*See Section 2.2 for overload fees.*)

A student who is making minimum progress toward good academic standing may schedule no more than 16 semester hours (refer to section 5.06 - Minimal Progress) and a student reinstated upon appeal of an academic dismissal is limited to scheduling 13 semester hours (refer to section 5.07 - Retention Policies).

Semester Hour

A semester hour is ordinarily defined as the credit for one weekly period of 50 minutes in lecture, discussion, or recitation for one semester. In some cases, as in laboratory, studio, and internship, there may not be a one to one correspondence between experimental time and credit.

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.

A 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 chairperson and the dean of the college in which the course is offered.

An examination committee must be appointed by the department chairperson and approved by the dean of the college. 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 special fee of \$30 is charged for courses 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 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 university, upon the syllabi of courses offered in this institution.

See Advanced Placement and C.L.E.P., Section 4.15

Auditing of Courses

A full-time student who is enrolled for less than seventeen hours of course work may, with consent of the appropriate dean and, subject to attendance 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 definition of class standing are as follows: **Freshman**, to and including 29 semester hours; **sophomore**, 30 to 59 semester hours; **junior**, 60 to 89 semester hours; **senior**, 90 or more semester hours or 6 semesters as a full-time student.*

Definition of Full-Time Student

An individual who is enrolled for 12 or more semester hours is classified as a full-time student throughout the semester. One who is enrolled for fewer than 12 semester hours is a part-time student. Where the word "student" appears without clarification either by word or context in this catalogue, "full-time degree student" is implied. Students should be aware that failure to maintain a certain number of credits per year may affect their eligibility for financial aid, athletics, etc.

Course Requirements, Progress Information, and Grade Reporting

Within the first week of classes each semester, teaching faculty shall distribute in writing, at least the following information:

- a. Requirements for achieving each letter grade
- b. Any relationship of class attendance to the course.
- c. Any other course requirements.
- d. Weighted averages of requirements for grade computation.
- e. Procedures for making up tests or other work missed through excused absence. (See policy #3506-Class Attendance).
- f. Grade Posting Policy: In the event grades will be posted, each student shall be given the opportunity to request in writing that his/her grade not be posted. If a student does not make the request, the instructor may assume that permission for posting has been granted.

At any time during the semester, teaching faculty shall be prepared to inform students of their academic progress, should the student request this.

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 university-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 make-up 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 University are defined as follows:

- A—Excellent.
- B—Above Average.
- C—Average.

D—Minimum Passing Grade.

E—Failure.

W—Withdrawn.

I—Incomplete. *This grade is given only when the student has been unable to complete certain of the obligations of the course due to circumstances beyond his/her control and when a plan for completion of the course requirements is developed by both the student and the instructor. 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 within the time specified, the instructor has the option of replacing the grade of I with an appropriate grade during the semester which follows the termination date of the plan. Otherwise, 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 the 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 college 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 and when a student receives a passing grade in a non-credit course or co-curricular activity, such as varsity sports, musical ensembles, theatre and forensics.

F—Failed. 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. The grade of F is also recorded when a student receives a failing grade in a non-credit course for co-curricular activity.

V—Audit.

R—Research in Progress.

X—No Grade Reported.

When the grade of X is recorded, the provisions for determining academic honors, good standing, minimal progress and satisfactory progress are not applied until the grade of X is removed.

Quality Points

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

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

Quality Point Average

A number called the Quality Point Average (abbreviated QPA) is computed from the record of courses taken at Bloomsburg University with grades of A,B,C,D, and E. The computation 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 University. 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 are deleted from the computation.

Change of Grade

After a grade of A, B, C, D, or E has been reported to the Registrar's Office, it may be changed only through the grievance process or to correct a computational or clerical error. A recommendation for change of grade due to a computational or clerical error must be made in writing by the instructor and approved by the department chairperson and the dean of the appropriate college. When the grades of I and R are changed, only the approval of the department chairperson is required.

5.04 HONORS

1. The Latin designations - Summa Cum Laude, Magna Cum Laude, and Cum Laude - are used to identify honor graduates.
2. The graduating seniors having cumulative quality point averages between 3.95 and 4.00 are designated, "summa cum laude."
3. All those graduating seniors having cumulative quality point averages between 3.75 and 3.94 are designated as "magna cum laude."
4. All those graduating seniors having cumulative quality point averages between 3.50 and 3.74 are designated as "cum laude."
5. Honors for graduation will be as of the last previous semester; while honors for transcript and diploma will be as of the end of the final semester.
6. 48 credits must be taken in residence at Bloomsburg University in order to be considered for academic honors at commencement.
7. A full-time degree student whose semester Q.P.A. is 3.5 or higher in 12 or more semester hours of course work for which a or grades are received will be named to the dean's list for that semester.
8. At the spring commencement ceremony, the graduate in each college, who has earned the highest academic average of current spring graduates within the college, shall receive a diploma on behalf of all graduates from that college. This honored graduate must have earned (prior to the final semester) at least 64 semester hours of credit at Bloomsburg University. In the case of ties, all top graduates will participate.

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 Sessions.)

5.06 SATISFACTORY PROGRESS

Satisfactory progress is evaluated on the basis of two criteria:

- a. a student's ability to earn a minimum number of credit hours;
- b. A student's ability to maintain a minimum quality point average at the conclusion of each grading period.

EARNED CREDIT HOURS

Full-time continuously enrolled undergraduate degree students: to maintain satisfactory progress towards the completion of a degree the student must earn a minimum of twenty-four (24) credit hours in any given twelve (12) month period (including credit hours earned in developmental studies courses).

Part-time undergraduate degree and all graduate degree students: to maintain satisfactory progress within any 12-month period, the student must earn half of all credit hours attempted for up to 8 credit hours; two-thirds of all credit hours attempted for 9 or more credit hours. (Note: Hours earned for a repeated undergraduate course are not counted twice.)

To maintain satisfactory progress, the student must meet the following minimal requirements:

Total Number of Semester Hours Earned Including Grades of "P" and Transfer Credit	Cumulative Quality Point Average Required for Minimal Progress
1-16 semester hours	1.25-1.99
17-32 semester hours	1.65-1.99
33-48 semester hours	1.85-1.99
49-64 semester hours	1.95-1.99
65 or more semester hours	2.00

A student, while making minimal progress toward academic good standing, may schedule no more than 16 semester hours.

5.07 RETENTION POLICIES

Academic Probation

An undergraduate student in one of the following categories is permitted to attend on academic probation for one additional final grading period (semester or summer) and is limited to sixteen semester hours:

- (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 the cumulative quality point average required for minimal progress;
- (c) a student who has been meeting the requirement for at least two consecutive grading periods immediately prior to a grading period in which his/her cumulative Quality Point Average drops below, but within 0.1 of the cumulative quality point average required for minimal progress;
- (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.
- (e) a full-time student who failed to earn 24 semester hours within one 12-month period.
- (f) A part-time student who failed to earn the minimum number of semester hours as prescribed above within the given semester.

Duration of Degree Work

Full-time undergraduate students are expected to complete their program of study within five calendar years of continual enrollment. Full-time graduate students are expected to complete their program of study within two calendar years of continuous enrollment. However, all requirements for a master's degree, including any courses accepted by transfer, must be completed within six calendar years.

The period for completion of a master's degree may be extended for sufficient reason. Written application for extension must be made to the dean of graduate studies prior to the end of the six-year period.

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 for a period of at least one calendar year. Readmission regulations are stated in Section 4.12.

Procedure

Students failing to meet the minimal requirements of earned credit hours and/or quality point average will be notified by the Registrar's Office.

Appeals

A student under academic dismissal may petition the Academic Review Board for reinstatement. If reinstatement is granted, the conditions of reinstatement are indicated, including an enrollment limit of 13 semester hours for a specified period of time. The student's record also is marked *reinstated*. If the student does not attain Good Standing, or is not making minimal progress toward academic 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 received by the chairperson of the Academic Review Board within 48 hours of receipt of official notification of dismissal.

The Academic Review Board comprises the deans of the colleges 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; the dean of Extended Programs; the coordinator of Academic Advisement, and the registrar. 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, could 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 for up to 8 credit hours; two-thirds of all credit hours attempted for 9 or more credit hours. (Note: Hours earned for a repeated undergraduate course are not counted twice.)

5.08 EVALUATION OF TRANSFER CREDITS

College level courses completed in an accredited two-year or four-year college or university in which grades of C or higher were earned are usually transferred for a degree student. Courses in which the grades of D were earned transfer only if the overall quality point average at the college where completed is 2.0 or better on a 4.0 system. In either case, these courses transfer; grades, quality points and quality point averages do not transfer. Transfer credit will be deleted if the student subsequently registers for courses which substantially duplicate the content of courses accepted in transfer.

A student applying to transfer courses must fulfill the provisions of Section 5.11 Residence Requirement and Section 5.13 Graduation Requirements.

When substitution of transfer credit for a required course is in question because the course was taken in an unaccredited institution or because the description or standards of the course are unclear, a student is entitled to an opportunity to validate the course by examination. When they are available, standardized examinations are used. (See Section 5.01 for information on credit by examination).

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.

Credits from other accredited institutions earned by a Bloomsburg degree student will transfer, provided approval is obtained first from the adviser and the dean. A form is available from the registrar for this purpose. Upon completion of the courses, it is the responsibility of the student to provide the registrar with an official transcript. The evaluation of the courses will be made by the department chairperson with the approval of the dean before the registrar records the courses and credits on the student's academic record.

Evaluation of credit earned at other institutions by incoming transfer students and by readmitted students who earned credit subsequent to their prior enrollment at Bloomsburg is made in the Admissions Office with guidelines provided by the department chairperson, cooperatively established by the college dean. 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.

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 from school.

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 Board.

In order to avoid the appearance of plagiarism resulting from ignorance of the proper use of source materials, the student should study the practices governing use of sources. Such information can be obtained from instructors or from handbooks found in the library.

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 University. Former Bloomsburg students, who are certified 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 by Bloomsburg University for college credit.

5.12 GRADUATE COURSES IN SENIOR YEAR

Seniors needing fewer than eighteen semester hours of course work to satisfy their requirements for the baccalaureate degree may, with approval of the department chairperson, apply to the dean of graduate studies for permission to supplement their undergraduate courses with graduate courses. Graduate credit for graduate courses will be awarded upon verification of completion of the undergraduate degree.

5.13 GRADUATION REQUIREMENTS

Graduation requires the successful completion of at least 128 semester hours to include completion of the curriculum of an approved major program, completion of general education requirements and an average of 2.0 in all courses required by the major program.

The last 64 semester hours of credit toward graduation must be in courses taken in an accredited four-year degree-granting institution. At least 32 of the last 64 semester hours credited toward a baccalaureate degree must be taken as Bloomsburg University courses. Exceptions to this policy will be made only by the college dean with the recommendation of the appropriate department chairperson. All financial obligations to the university must have been cleared.

5.14 SECOND BACCALAUREATE DEGREE

An individual who applies for a second baccalaureate degree must have completed the first degree at Bloomsburg University or another accredited college or university. The student must also add at least 30 semester hours of undergraduate courses in residence during regular academic years and/or summer sessions at Bloomsburg University.

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 30 semester hours. If a particular course is required in both degree programs, it cannot be credited as part of the 30 semester hour requirement for completion of the second degree.

Multiple Degrees

A student can be awarded only one baccalaureate degree at a time. The degree to be awarded must be selected prior to the last semester. A student completing an additional major in another degree program will have the fact noted on the transcript.

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), Course Withdrawal (Section 5.01) and Residence Requirement (Section 5.11), the policy is limited to fifty (50) percent of the number of courses or credits indicated.

5.16 ACADEMIC EXAMINATION POLICY

1. Faculty shall give examinations during the regularly scheduled classes of the semester. The faculty are responsible for determining the length, frequency, form and content of all examinations within the guidelines

- listed below. Final examinations shall be given, where applicable, only during the designated Final Examination Week after the end of regularly scheduled classes and only at the designated time and place according to the Final Examination Schedule.
2. Faculty shall distribute in writing the requirements for each course within the first week of each academic term. In these requirements final examinations shall be worth no less than 20 percent nor more than 40 percent of the course grade. No single exam, paper, project, or assignment shall have greater emphasis than the final examination. As a result of this condition, every course must use at least three evaluations for grading purposes.
 3. Faculty shall give final examinations which are comprehensive in design, emphasizing subject matter presented over the entire term.
 4. Faculty shall return and/or permit students to review all unit tests, quizzes, and other types of evaluations by the last regularly scheduled class in the term. In order to prevent an excessive build-up in the number of units tests for each student during the last week of classes, faculty are advised to refrain from testing during that week.
 5. The Final Examination Schedule shall be prepared by the Office of the Registrar with consultation of the faculty, if necessary, and approved by the Provost and Vice President for Academic Affairs. Regularly scheduled final examination periods shall be 120 minutes in length. Part of the final examination week shall include at least a one-day interval between the last full day of classes and the first day of scheduled examinations. This time shall be designated as the reading period.
 6. The following restrictions are imposed on the scheduling of activities during the Final Examination Week.
 - a. Faculty are not required to be available to students for conference during the final examination week.
 - b. No examinations shall be scheduled during the reading period unless approved by the Provost and the Vice President for Academic Affairs.
 - c. No extra-curricular activities or faculty-administrative activities shall be scheduled except with the consent of the individuals involved.
 7. The Andruss Library will remain open and other designated study areas will be made available during the Final Examination Period with expanded hours when possible.
 8. Unless returned to the student all graded final examinations must be available for student review for at least the next full semester following the final examination.
 9. No student shall be required to take more than two final examinations in one day. (See procedure outlined below for rescheduling of final examinations.)
 10. Any exceptions to any of the above matters must be made on the basis of the procedures outlined below.
 11. In case of non-compliance with the provisions of this policy, a student has the recourse of proper grievance procedures as established by the University and outlined in policy issuance 3592.

Procedures

1. Faculty who wish to schedule quizzes, tests or examinations at times other than during their regularly scheduled class periods during the term, may do so only if a make-up opportunity is made available to students.

This opportunity must be scheduled at a time mutually acceptable to both student and faculty and may not conflict with the student's other scheduled classes.

A faculty member shall not give an examination at a time other than during a regularly scheduled class period unless approval is first obtained from the majority of the faculty members of his/her academic department. Except for abnormal circumstances, this approval should be granted by the end of the first week of classes. Notification of this alternative arrangement shall be given to the appropriate college dean.

2. A faculty member who believes that the content of his/her courses does not lend itself to a scheduled examination must obtain approval for an alternative arrangement from the majority of the members of his/her academic department and college dean. Notification of the approved arrangement shall be given to the Office of the Registrar. Except for abnormal circumstance, the approval and notification shall be made by the end of the first week of classes.
3. To change the requirement specifying that final examinations shall be worth no less than twenty percent nor more than forty percent of the course grade, there must be agreement for the change by the faculty member(s) in charge of the class, the majority of the members of his/her academic department, the appropriate college dean. Except for abnormal circumstances, the approval and notification to students shall be made by the end of the first week of classes. If approved, the change may remain in effect for the faculty member for the duration of this policy or until the course is resubmitted as a Category I - Course Content Change.
4. In order to change the time and place scheduled for a final examination, there must be agreement for the change by the faculty member(s) in charge of the class, 100% of the students in the class, and the appropriate College Dean. This change must be made by the middle of the semester. Student opinion in this matter shall be determined by secret ballot with the faculty member in charge of the vote. If for some reason a change is made in the time and date of a final examination that results in a student conflict, the faculty member shall arrange to provide a make-up opportunity during the Final Examination Period. (See below)
5. If the student has a scheduling conflict during the final examination period resulting in an excessive number of final examinations scheduled for one day, the following procedure for rescheduling the final examination shall apply and be completed by at least two weeks before the end of regularly scheduled classes.

The student should select two of the scheduled examinations to be taken during the designated time according to the following priority of choice:

1. courses offered by the major department;
 2. additional required courses in the major program;
 3. other courses.
6. The additional final examination(s) should be rescheduled with consultation of the relevant faculty on a mutually convenient time. Assistance in the rescheduling of examinations may come from such individuals as the student's adviser, department chairperson or academic dean.

6. UNDERGRADUATE CURRICULA: INTRODUCTION

6.1 CHOICE OF CURRICULUM

The undergraduate curricula are administered by three colleges; the College of Arts and Sciences, the College of Professional Studies, and the College of Business; and the School of Extended Programs. The requirements for the curricula are stated in the chapters which deal with these colleges.

Upon admission, students are admitted to eight (8) broad academic categories. (See section 4.02). A student must have committed himself/herself and received admission to a specific major by the end of the sophomore year. (Students who transfer to Bloomsburg University 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 College of Professional Studies, the university is not bound to admit the student if he/she is not admissible according to the competition for available spaces or other selective criteria.

Students electing to major in two departments must have a major adviser in each department, meet all of the major requirements of each department and all of the general education requirements. (See Section 6.4.) Double majors in some departments may require more than the minimum 128 credits for graduation. Double majors in departments in two different schools must have the permission of both college deans to declare a double major.

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 50 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 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 credit requirements for graduation.

01.011 INTENSIVE READING

2 semester hours

Improves the reading ability of the students to a level where they will be able to enroll in Developmental Reading I. Instruction on a group and individual basis. Weekly contracts will provide individualized prescriptions. Two credits toward full-load status will be earned by successful completion of the course. *Summer only, credit will not apply towards graduation.

01.020 DEVELOPMENTAL READING I

2 semester hours

Presents major components of the reading process. Emphasizes basic reading skills needed in college courses. Two credits will be offered for full-load consideration. A prerequisite to Developmental Reading II for students scoring below the established cut-offs on the Nelson Denny Reading Test. *Credit will not apply towards graduation.

01.030 DEVELOPMENTAL READING II**3 semester hours**

Expands upon the interpretative and critical reading skills that are necessary for optimum success in college. Three credits will be assigned towards full-load consideration. *Credit will not apply towards graduation.

01.041 BASIC WRITING**2 semester hours**

Endeavors to improve spoken and written language and enhance development of skills necessary for formal writing, particularly punctuation, sentence structure and paragraph writing. Includes studies and measurements of the effectiveness of informal writing, advertising copy and traditional formal prose style. *Summer only, credit will not apply towards graduation.

01.060 DEVELOPMENTAL WRITING**3 semester hours**

A prerequisite to 20.101 for students who test below a standard established by the university on joint recommendation of the Center for Academic Development and the Department of English. Through a series of writing and revising tasks, students learn to control a variety of basic sentence patterns, improve grammar, mechanics, and spelling, and try basic rhetorical strategies in the paragraph. Three credits towards full-load status will be earned by successful completion of the course. *Credit will not apply toward graduation.

01.071 BASIC MATHEMATICS**2 semester hours**

For students who enter with inadequate basic mathematical skills for college-level studies. Study skill techniques and problem-solving strategies will be explored. Emphasizes basic computer literacy including the LOGO language and the use of a word processing system. Computer-assisted instruction will be utilized throughout the course. *Summers only, credit will not apply towards graduation.

01.080 DEVELOPMENTAL MATHEMATICS**2 semester hours**

Following a series of diagnostic tests, an individualized program in mathematics will be designed for each student. May include operations of rational numbers, ratio, proportion, percent, geometric concepts, basic statistics and introductory concepts and skills including linear equations, inequalities and polynomials. Problem-solving and application will be emphasized and integrated throughout the program. Two credits towards full-load status will be earned by successful completion of the course. *Credit will not apply towards graduation.

01.090 BASIC ALGEBRA**3 semester hours**

Emphasizes algebraic skill development. Topics will include linear equations and functions, exponents and polynomials, factoring, rational expressions, and quadratic equations. Designed to provide the student with the concepts and skills necessary for success in future college math courses. Addresses the needs of students who have a limited background in algebra. Three credits toward full-load status will be earned by successful completion of the course. *Credit will not apply towards graduation.

6.4 GENERAL EDUCATION REQUIREMENTS

The goals of the general education program at Bloomsburg University are to develop:

1. an ability to communicate effectively;
2. an ability to think analytically and quantitatively;
3. a facility to make independent and responsible value judgments and decisions according to high ethical values and life goals;
4. an appreciation of the need for fitness, life-long recreation skills; and survival skills;
5. a capacity for assessing the validity of ideas and an understanding of the approaches used to gain knowledge through development of critical thinking abilities;
6. a greater appreciation of literature, art, music, and theatre through stimulation of one's creative interests;
7. an understanding of our society and the relative position of an individual in this society;
8. an understanding of the relationship between an individual and his/ her physical and biological environments;
9. a familiarity with the major contributions of human knowledge in the humanities, social sciences, natural sciences and mathematics;

10. an awareness and global understanding of the relative position of the individual in the world community.

Specific Requirements:

1. Communication (goal 1)..... **9 semester hours**
(6 hours for students who complete English 104).
 - A. English 101 and English 200 or 201 (6 credits)
or English 104 (3 credits): **3 or 6 semester hours**
 - B. Three credits from the approved list of communication
courses **3 semester hours**
2. Quantitative-Analytical Reasoning (goal 2):..... **3 semester hours**
-Three credits from the approved list of quantitative-analytical
reasoning courses.
3. Values, Ethics and Responsible Decision Making (goal 3): ...**3 semester
hours.**
-Three credits from the approved list of values, ethics, and responsi-
ble decision-making courses. (The development of interdisciplinary
courses such as science, technology, and human values is encour-
aged.)
4. Survival, Fitness and Recreation Skills (goal 4): **3 semester hours**
-Three credits from the approved list of survival, fitness and life-
long recreation skill courses.

TOTAL = 15 or 18 semester hours

Students qualifying for English 104 are exempt from 20.200 or 20.201 upon successful completion of 20.104, thereby completing this requirement with 3 rather than 6 semester hours

Distribution Requirements:

(Distribution requirement courses must be from disciplines other than the individual's major. Students with double majors must adhere to this ruling for only one of the disciplines. Courses which an individual uses to satisfy the specific communication, quantitative-analytical reasoning, values-ethics, and survival- fitness-recreation requirements may not be used to satisfy distribution requirements.)

1. Humanities: **(12 credits)**
-Twelve credits from courses approved as developing an under-
standing of approaches to gain knowledge in the humanities (goal
5), creative interests in and appreciation of art, literature, music,
and theatre (goal 6), knowledge of major contributions in the
humanities (goal 9), and global awareness (goal 10). At least three
different humanities departments must be represented in these 12
credits. Humanities departments include: Art, English, History,
Languages and Cultures, Music, Philosophy, and Speech, Mass
Communication, and Theatre.
2. Social Sciences: **(12 credits)**
-Twelve credits from courses approved as developing an under-
standing of approaches to gain knowledge in the social sciences
(goal 5), an understanding of our own society and the place of an
individual in that society (goal 7), knowledge of the major contribu-
tions in the social sciences (goal 9), and global awareness (goal 10).
At least three different departments must be represented in these
12 credits. Social sciences departments include: Anthropology,
Economics, Geography, Political Science, Psychology, and Sociolo-
gy.
3. Natural Sciences and Mathematics: **(12 semester hours)**

-Twelve credits from courses approved as developing an understanding of approaches to gain knowledge in the natural sciences (goal 5), an understanding of the relationship of the individual to his/her environment (goal 8), and knowledge of the major contributions in the natural sciences and mathematics (goal 9). At least three different natural sciences and mathematics departments must be represented in these 12 credits. Natural sciences and mathematics departments include: Biological and Allied Health Sciences, Chemistry, Earth Science, Mathematics, and Physics.

TOTAL = 51 or 54 semester hours

General Education Courses

Specific Course Requirements

Communication (6 or 9 credits)

09-231 - Technical writing

10-101 through 104 - French 1 through French 4

10-109 - Phonetics: Sounds French Language

11-101 through 104 - German 1 through German 4

12-101 through 104 - Spanish 1 through Spanish 4

12-109 - Phonetics; Spanish

13-101 through 104 - Russian 1 through Russian 4

14-101 through 104 - Italian 1 through Italian 4

18-101 through 102 - Latin 1 through Latin 2

*20-101 - Composition I

and either

*20-200 - Writing proficiency examination

*20-201 - Composition 2

20-105 - Introduction to Journalism

20-301 - Creative Writing

*20-104 - Honors Composition is substituted for regular English composition requirements by students whose names are included on a list prepared by the English Department.

25-103 - Introduction to Speech

25-104 - Interpersonal Speech Communications

74-153 - Introduction to Manual Communications

Quantitative-Analytical Reasoning - (3 credits)

40-246 - Business & Economics Math 1

40-346 - Business & Economics Statistics 1

45-260 - Basic Social Statistics

48-160 - Basic Statistics

53-101 - Fund of Math 1

53-111 - Finite Mathematics

53-114 - College Algebra

53-118 - Applied Matrix Algebra

53-123 - Essentials Calculus

53-125 - Analysis 1

53-141 - Introduction to Statistics

53-241 - Problems & Statistics

Values, Ethics and Responsible Decision Making - (3 credits)

09-213 - Science Technology Human Values

28-220 - Ethics

28-290 - Medical Ethics

28-292 - Cont Moral Problems

41-105 - Environmental Issues/Choices

- 42-210 - Values Conflict 20 Century
- 44-207/28-207 - Ethics, Politics, and Public Policy
- 48-131 - Psychological Adjustment
- 48-254 - Psychological Aspects Social Issues
- 50-230 - Human Sexuality
- 50-254 - Social Implications Biology
- Survival, Fitness and Recreational Skills -(3 credits)
- 05-101 - Varsity Baseball
- 05-102 - Varsity Basketball
- 05-103 - Varsity Field Hockey
- 05-104 - Varsity Football
- 05-105 - Varsity Soccer
- 05-106 - Varsity Swimming and Diving
- 05-107 - Varsity Tennis
- 05-108 - Varsity Track and Field
- 05-109 - Varsity Wrestling
- 05-110 - Varsity Golf
- 05-111 - Varsity Lacrosse Women
- 05-112 - Varsity Gymnastics
- 05-113 - Varsity Softball
- 05-149 - Aquatics-Beginning Non-Swimmers
- 05-150 - Beginning Aquatics
- 05-151 - Intermediate Aquatics
- 05-155 - Swimnastics
- 05-200 - CPR and Safety
- 05-201 - Archery-Badminton
- 05-214 - Fencing
- 05-217 - Bicycling
- 05-219 - Tennis
- 05-222 - Creative Dance
- 05-223 - Modern Dance
- 05-224 - Fitness Dance
- 05-227 - Archery-Volleyball
- 05-228 - Gymnastics
- 05-230 - Weight Training-Fitness
- 05-231 - Archery
- 05-232 - Bowling
- 05-233 - Badminton
- 05-234 - Golf
- 05-235 - Riflery
- 05-236 - Volleyball
- 05-237 - Modified Physical Education
- 05-238 - Racquetball/Handball
- 05-239 - Square Dance
- 05-240 - Fitness-Slimnastics
- 05-241 - Judo-Self Defense
- 05-243 - Backpacking
- 05-244 - Orienteering
- 05-245 - Canoeing
- 05-246 - Beginning Skin-Scuba Diving
- 05-247 - Basic Rock Climbing
- 05-248 - Basic Sailing
- 05-249 - Synchronized Swimming
- 05-250 - Advanced Lifesaving
- 05-270 - Exercise and You

- 05-271 - Intermediate Archery
- 05-272 - Intermediate Bowling
- 05-273 - Intermediate Golf
- 05-274 - Intermediate Tennis
- 05-275 - Intermediate Volleyball
- 05-276 - Intermediate Judo
- 50-205 - Introduction to Nutrition (1 credit may be counted here)

Group A - Humanities and the Arts

Art

- 30-101 - Introduction to Art
- 31-215 - History of American Art
- 31-225 - History of Architecture
- 31-235 - European Art History I
- 31-236 - European Art History II
- 31-345 - History of Near Eastern Art
- 31-346 - History of Oriental Art
- 31-355 - History of Modern Art
- 32-111 - Drawing I
- 32-150 - Design I
- 32-201 - Ceramics I
- 32-221 - Fabric Design I
- 32-231 - Painting I
- 32-241 - Sculpture I
- 32-251 - Weaving I
- 32-261 - Graphics I
- 32-275 - Crafts
- 32-395 - Art & Culture of France

English

- 20-120 - World Literature I
- 20-121 - World Literature II
- 20-131 - The Bible as Literature
- 20-151 - Introduction to Literature
- 20-153 - Folklore
- 20-220 - British Writers I
- 20-221 - British Writers II
- 20-222 - American Literature I
- 20-223 - American Literature II
- 20-231 - Literature and Society
- 20-251 - Literary Genres
- 20-280 - Poetry

History

- 42-100 - The Trans-Atlantic World
- 42-112 - Origins of the Modern World
- 42-113 - The Modern World
- 42-121 - U.S. History Survey: to 1877
- 42-122 - U.S. History 1877 - Present
- 42-133 - The Ancient & Medieval Worlds
- 42-208 - Contemporary Issues in U.S. History
- 42-210 - Values in Conflict in 20th Century History
- 42-222 - Growth of American Business
- 42-223 - Economic History of the United States

- 42-224 - The Immigrant Experience
- 42-227 - The American Woman
- 42-229 - Modern World Leaders
- 42-235 - Emergence of Social Welfare
- 42-275 - History of Christianity
- 42-282 - Military History II

Languages and Cultures

- 10-101 - French I
- 10-102 - French II
- 10-103 - French III
- 10-104 - French IV
- 10-201 - Structure of the French Language
- 10-202 - Oral Expression I (French)
- 10-203 - French Written Expression
- 10-204 - French Studies Abroad
- 10-211 - Foundations of French Culture and Civilization
- 10-212 - France Today
- 10-295 - The Art and Culture of France
- 11-101 - German I
- 11-102 - German II
- 11-103 - German III
- 11-104 - German IV
- 11-201 - Grammar and Composition (German)
- 11-202 - Conversation (German)
- 11-204 - German Studies Abroad
- 12-101 - Spanish I
- 12-102 - Spanish II
- 12-103 - Spanish III
- 12-104 - Spanish IV
- 12-121 - Spanish Literature in English Translation
- 12-122 - Latin American Literature in English Translation
- 12-201 - Structure of the Spanish Language
- 12-202 - Oral Expression (Spanish)
- 12-203 - Written Expression (Spanish)
- 12-204 - Spanish Studies Abroad
- 12-211 - Spanish Culture and Civilization
- 12-212 - Spanish-American Culture and Civilization
- 13-101 - Russian I
- 13-102 - Russian II
- 13-103 - Russian III
- 13-104 - Russian IV
- 14-101 - Italian I
- 14-102 - Italian II
- 14-103 - Italian III
- 14-104 - Italian IV
- 18-101 - Latin I
- 18-102 - Latin II
- 18-111 - Roman Civilization
- 18-112 - Introduction to Roman Literature

Music

- 35-101 - Music Listening
- 35-111 - Maroon & Gold Band
- 35-112 - Concert Choir

- 35-113 - Women's Choral Ensemble
- 35-114 - College-Community Orchestra
- 35-116 - Husky Singers
- 35-130 - Fundamental Musicianship
- 35-131 - Theory I
- 35-132 - Theory II
- 35-133 - Sight Singing I
- 35-134 - Sight Singing II
- 35-141 - Violin
- 35-142 - Viola
- 35-143 - Violoncello
- 35-144 - Double Bass
- 35-151 - Organ
- 35-161 - Trumpet
- 35-162 - Horn
- 35-163 - Trombone
- 35-163 - Baritone
- 35-164 - Tuba
- 35-171 - Voice
- 35-181 - Piano
- 35-191 - Flute
- 35-192 - Oboe
- 35-193 - Clarinet
- 35-194 - Bassoon
- 35-195 - Saxophone
- 35-221 - Music History I
- 35-222 - Music History II
- 35-223 - Music History III
- 35-224 - Class Piano I
- 35-225 - Class Piano II
- 35-226 - Class Voice
- 35-229 - Class Instruction in Brass

Philosophy

- 28-211 - Introduction to Philosophy
- 28-220 - Ethics
- 28-230 - Religions of the East
- 28-271 - Western Religious Tradition
- 28-304 - Philosophy of Social Sciences
- 28-310 - History of Ancient Philosophy
- 28-312 - History of Modern Philosophy
- 28-314 - Existentialism and Phenomenology
- 28-351 - Theory of Knowledge

Communications Studies

- 25-103 - Introduction to Speech
- 25-104 - Interpersonal Speech Communication
- 25-206 - Oral Interpretation of Literature
- 25-220 - Intercultural Communication
- 25-241 - Voice and Diction
- 26-102 - Introduction to Theatre Arts
- 26-112 - Fundamentals of Acting
- 26-209 - Theatre Appreciation
- 26-215 - History of the Theatre
- 27-115 - Cinema Appreciation

- 27-225 - Mass Communication & the Popular Arts
- 27-230 - History of Film

Group B - Social and Behavioral Sciences

Anthropology

- 46-101 - Introduction to Anthropology
- 46-200 - Principles of Cultural Anthropology
- 46-210 - World Prehistory
- 46-220 - Principles of Physical Anthropology

Economics

- 40-211 - Principles of Economics I
- 40-212 - Principles of Economics II

Communication Disorders

- 74-152 - Introduction to Communication Disorders

Special Education

- 70-101 - Introduction to Exceptional Individuals

Geography

- 41-101 - World Physical Geography
- 41-102 - World Cultural Geography
- 41-125 - Weather & Climate
- 41-150 - Elements of Planning
- 41-200 - Geography of the U.S. and Canada
- 41-201 - Geography of Europe
- 41-202 - Geography of Latin America
- 41-221 - Economic Geography
- 41-242 - Map Skills
- 41-258 - Environmental Conservation
- 41-281 - Pennsylvania Folk Cultures

Political Science

- 44-101 - Elements of Political Science
- 44-108 - Contemporary Political Ideologies
- 44-161 - United States Government
- 44-181 - Contemporary Issues in World Politics
- 44-271 - States, Nations, and Governments
- 44-366 - The Political Systems of Western Europe

Psychology

- 48-101 - General Psychology
- 48-110 - Life Span Psychology
- 48-131 - Psychology of Adjustment
- 48-211 - Child Psychology
- 48-212 - Adolescence
- 48-251 - Social Psychology
- 48-254 - Psychological Aspects of Social Issues

Sociology & Social Welfare

- 45-133 - Introduction to Social Work
- 45-211 - Principles of Sociology

- 45-213 - Contemporary Social Problems
- 45-215 - Ethnic & National Minority Groups
- 45-216 - Urban Sociology
- 45-219 - Religion & Society
- 45-276 - Sociology of Science
- 45-231 - Marriage & the Family
- 45-242 - Juvenile Delinquency

Group C - Natural Sciences and Mathematics

Biological and Allied Health Sciences

- 50-101 - General Biology I
- 50-102 - General Biology II
- 50-110 - General Zoology
- 50-111 - General Biology Laboratory
- 50-120 - General Botany
- 50-231 - Biology of Aging
- 50-240 - Introductory Microbiology

Chemistry

- 52-101 - Introductory Chemistry
- 52-103 - College Chemistry
- 52-108 - Physiological Chemistry
- 52-111 - General Chemistry I
- 52-112 - General Chemistry II
- 52-113 - Chemistry Laboratory

Earth Science

- 51-101 - Physical Geology
- 51-102 - Historical Geology
- 51-105 - Environmental Geology
- 51-111 - Physical Geology Laboratory
- 51-112 - Historical Geology Lab
- 51-253 - Astronomy
- 51-255 - Meteorology
- 51-259 - Oceanography

Mathematics

- 53-101 - Fundamentals of Mathematics
- 53-111 - Finite Mathematics
- 53-112 - Trigonometry
- 53-113 - Pre-Calculus
- 53-114 - College Algebra
- 53-118 - Applied Matrix Algebra
- 53-123 - Essentials of Calculus
- 53-125 - Analysis I
- 53-126 - Analysis II
- 53-141 - Introductory Statistics
- 53-171 - Introduction to Computer Programming
- 53-172 - Introduction to Basic Computer Programming
- 53-201 - Theory of Arithmetic
- 53-202 - Geometry for Elementary Teachers
- 53-231 - College Geometry
- 53-241 - Probability and Statistics

53-271 - Algorithmic Processes

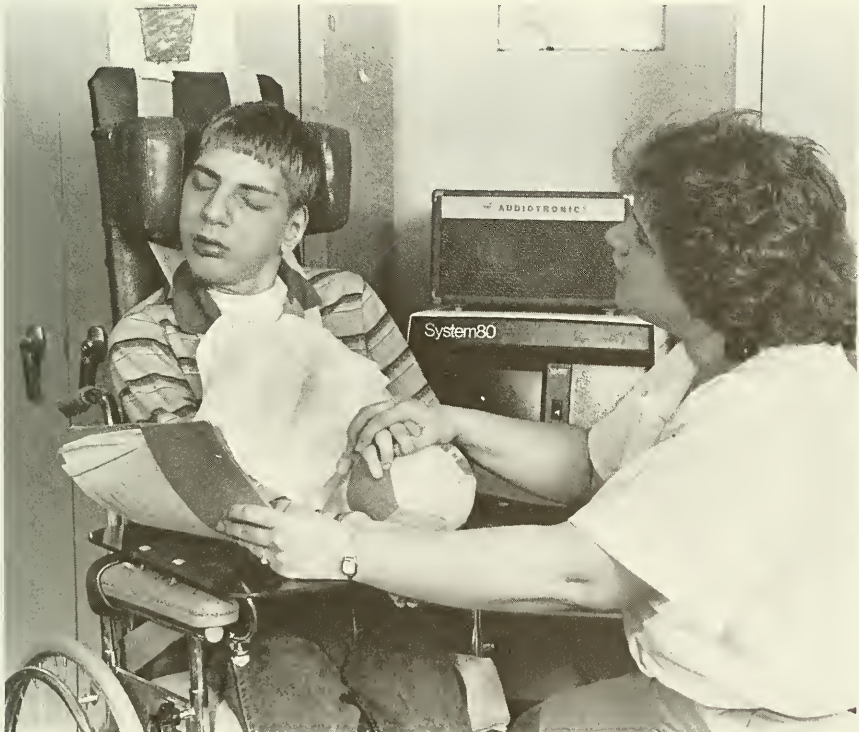
Physics

- 54-101 - Basic Physical Science
- 54-103 - Principles of Physical Science
- 54-104 - Elementary Electronics
- 54-105 - Energy: Sources and Environmental Effects
- 54-107 - Applied Physics for Health Sciences
- 54-111 - Introductory Physics I
- 54-112 - Introductory Physics II
- 54-211 - General Physics I
- 54-212 - General Physics II

6.5 INTERNSHIPS

The internship program provides opportunities for students to combine academic instruction with on or off-campus experience. The internship program, which for most students is optional, is coordinated by the campus coordinator of internships in the School of Extended Programs and administered by the academic departments. The program includes opportunities provided through the Harrisburg Life Experience Program, and financial aid support to students who qualify.

Inquiries regarding student internship opportunities, credit, and approval procedures should be directed to the campus coordinator of internships, or the department chairperson in the student's major area of study.





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7. COLLEGE OF ARTS AND SCIENCES

7.1 GENERAL ADMINISTRATION

The College of Arts and Sciences is composed of 17 academic departments, all of which, except health, physical education and athletics, offer programs leading to either the bachelor of science or the bachelor of arts degree or both.

Bloomsburg 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 College of Arts and Sciences has also made Bloomsburg 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 studied in the college 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 MAJOR DEGREE PROGRAMS IN THE COLLEGE OF ARTS AND SCIENCES

(DEGREES B.A. AND B.S.)

Students in the College of Arts and Sciences obtain either a B.A. or B.S. degree. All students complete the general education requirements described in Section 6.4 and fulfill the major requirements as stated at the beginning of the course descriptions for the discipline. Several major programs have more than one option for fulfilling the major requirements. The options in each major degree program are shown in parentheses in the program listing below:

Program	Degree	Department
Anthropology	B.A.	Anthropology
Art Studio	B.A.	Art
Art History	B.A.	Art
Biology (General)(Microbiology or Marine Biology)	B.A., B.S.	Biological and Allied Health Sciences
Chemistry	B.A., B.S.	Chemistry
Clinical Chemistry	B.S.	Chemistry
*Computer and Information Science	B.S.	Mathematics and Computer Science
Earth Sciences	B.S.	Geography and Earth Sciences
Economics	B.A., B.S.	Economics

Economics, Political	B.A.	Economics
**Engineering and Liberal Arts	B.A., B.S.	Physics
English (General)(Journalism)	B.A.	English
French	B.A.	Languages and Cultures
Geography (General) (Urban and Regional Planning) (Environmental Planning)	B.A.	Geography and Earth Sciences
Geology	B.S.	Geography and Earth Sciences
History	B.A.	History
Mass Communication	B.A.	Communication Studies
Mathematics	B.A., B.S.	Mathematics and Computer Sciences
Music (Music History) (Applied Music)	B.A.	Music
Philosophy	B.A.	Philosophy
Physics	B.A., B.S.	Physics
Political Science	B.A.	Political Science
Psychology (General)(Applied)	B.A.	Psychology
Sociology (General)(Social Welfare)	B.A.	Sociology/Social Welfare
Spanish	B.A.	Languages and Cultures
Speech Communications	B.A.	Communication Studies
Theatre Arts	B.A.	Communication Studies

*Interdisciplinary program with College of Business

**Cooperative Program with Pennsylvania State University

7.3 ARTS AND SCIENCES HONORS PROGRAM

The College of Arts and Sciences provides superior students an opportunity to participate in an honors program during his/her junior and senior years. A student selected for this program participates in an honors seminar in either the humanities, natural sciences, and mathematics, or the social sciences and completes an honors thesis under the direction of a faculty member in the department sponsoring the honors student. Students interested in this program should contact their faculty advisers during their sophomore year.

7.4 ACADEMIC MINORS

In addition to achieving an indepth understanding of an academic discipline by completing the requirements of a major, students are encouraged to become literate in a second discipline by completing the minor requirements of that discipline. Each academic minor consists of a minimum of 18 credit hours of courses. The following programs offer academic minors: anthropology, art studio, art history, biology, economics, English, French, geography, history, mathematics, music, philosophy, physics, political science, psychology, sociology and Spanish. Students should contact the academic department for the requirements for the completion of specific academic minors.

7.5 PRE-PROFESSIONAL AND CAREER ADVISEMENT

Pre-Professional and Career Advisement Committees offer special supplementary advisement to students. Members of these committees help students to familiarize themselves with admission requirements of professional schools or careers, and to select college courses in harmony with these requirements.

Students interested in pre-professional or career advising should indicate this interest on their application for admission to the university in order that appropriate advisers may be notified of these interests.

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. More than 85% of Bloomsburg University students who apply to medical school are accepted.

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 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.

Career Concentrations

Career advisory committees in the areas of community services, public administration, gerontology, community recreation, leadership, labor relations, family services, art and museum director, and environmental management and planning help students select courses which will provide appropriate skills and knowledge for each career area.

7.6 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.



ANTHROPOLOGY

FACULTY:

Professor: David Minderhout; Associate Professor Robert Reeder; Assistant Professor Elise M. Brenner

ANTHROPOLOGY

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

Anthropology 46.100, 200; Sociology, 45.211, 462 or Anthropology 46.470; Sociology 45.460 or Psychology 48.260; Biology 50.210; 12 semester hours elected from Anthropology 46.390, 405, 440, 480; Sociology 45.213, 216, 276; Biology 50.233, 351, 431, 454, or other courses as recommended by the adviser. Students contemplating graduate school should consider taking Mathematics 53.171.

Arts and Sciences minor in the B.A. degree: (18 credits)

ELECTIVE: Select one area (9 credits)

- A. Physical Anthropology two courses from 46.300, 46.301, 46.405; One course from 46.350, 50.102, 50.233, 50.454, 51.102
46.301, 46.310, 46.311, 46.340, 46.380
- C. Cultural Anthropology three courses from 46.300, 46.350, 46.390, 46.410, 46.440, 46.480

COURSE DESCRIPTIONS

ANTHROPOLOGY

(Code 46)

- 46.101 INTRODUCTION TO ANTHROPOLOGY** **3 semester hours**
A beginning course for students with no background anthropology. Provides an overview of peoples and cultures of the world today and of the past as well as the fossil evidence for human evolution. Special topics may include living primates, magic and religion, and kinship, marriage, and sex roles.
- 46.200 PRINCIPLES OF CULTURAL ANTHROPOLOGY** **3 semester hours**
Examines a cross-cultural study of all human behaviors in contemporary cultures. Topics surveyed include socialization; language; sex, age and kinship roles; marriage and the family; religion and magic; political and economic behavior; the arts; and cultural change. Anthropological methodology and the concept of culture are also stressed.
- 46.210 WORLD PREHISTORY** **3 semester hours**
Provides a worldwide examination of human prehistory from the origins of agriculture to the development of early writing. Focuses on regional differences and similarities in key evolutionary transitions including sedentary lifeways, urban origins and the rise of states.
- 46.220 PRINCIPLES OF PHYSICAL ANTHROPOLOGY** **3 semester hours**
Studies the emergence and development of man, the biological basis of human culture and society, and the origin of the social units of fossil man.
- 46.300 ARCHAEOLOGICAL METHOD AND THEORY** **3 semester hours**
Describes the nature of archaeological remains and explains how archaeology can be used to answer key questions concerning longterm change in human economic, political and social behavior. Illustrative examples are drawn from around the world.
- 46.301 FIELD ARCHAEOLOGY** **3-6 semester hours**
Provides field investigation of various aboriginal cultures which have occupied the valley of the north branch of the Susquehanna River since the glacial age. Emphasizes excavation of sites in this area, preceded by orientation to stratigraphic and recording techniques.
- 46.310 ARCHAEOLOGY OF MESOAMERICA** **3 semester hours**
Surveys the prehistoric cultures of Mexico and Central America. Special emphasis on the development of Aztec and Maya civilizations.

- 46.311 ARCHAEOLOGY OF NORTHEASTERN NORTH AMERICA** 3 semester hours
 Surveys the prehistoric cultures of the area from arrival of the first inhabitants through early historic times. Course provides a laboratory for study of broader issues of socio-cultural processes.
- 46.320 CONTEMPORARY WORLD CULTURES** 3 semester hours
 Presents a comparative analysis of selected non-European societies in contrasting cultural and natural areas. Indicates stresses on the natural and social environment, national character, religion and world view, and literary, artistic, and musical expression. (Offered summers only.)
- 46.330 PEOPLES OF SUB-SAHARAN AFRICA** 3 semester hours
 Surveys cultures of Africa south of the Sahara. Topics include African languages, prehistory, art, marriage and the family, political and religious organization, the impact of urbanization on social structure.
- 46.340 NORTH AMERICAN INDIANS** 3 semester hours
 Surveys of the native cultures of North America in prehistoric and early historic periods. Includes Indians and archaeology of Pennsylvania.
- 46.350 MEDICAL ANTHROPOLOGY** 3 semester hours
 Studies of cross-cultural concepts of health, illness, and curing as well as health care delivery in industrialized cultures. Includes the topics of 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.
- 46.380 CULTURE CHANGE AND CULTURE CONTACT** 3 semester hours
 Examines the modern world with emphasis on emerging new patterns of Western and international culture. Studies the impact of mass society and technology on the animal, man, and prospects for the future.
Prerequisite: Either 46.200 or 46.250.
- 46.390 SOCIALIZATION OF THE CHILD** 3 semester hours
 Life experience and adjustment of the individual through infancy, middle childhood and youth. Reviews contrasting methods of introducing children to adult economic, social, and religious activities.
Prerequisite: 46.200.
- 46.405 PRIMATES** 3 semester hours
 Studies 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: Either 46.100, 46.220, 50.210, or 50.102
- 46.410 PRIMITIVE ARTS** 3 semester hours
 Presents graphic arts, literature, music, and the dance of ancient and non-European cultures.
- 46.440 LANGUAGE AND CULTURE** 3 semester hours
 Studies the place of oral and non-oral language in human evolution and contemporary cultures. Discusses dialectal variation, discourse analysis, multi-lingualism, language and cognition, and the role of language in education.
(Offered spring only)
- 46.450 PEOPLES AND CULTURES OF SOUTH AMERICA** 3 semester hours
 Presents a survey introduction to the aboriginal, non-literate cultures of South America, including the ecological background, archaeology, and cultural patterns.
- 46.466 INDEPENDENT STUDY IN ANTHROPOLOGY** 1-6 semester hours
 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 semester hours

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 semester hours

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.



ART

FACULTY:

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

ART

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: 32.150 and 111; 30.101 or any art history; 32.231 or 241; 12 semester hours in one of the following: ceramics, drawing, fabric design, graphics, painting, sculpture, weaving.

Minor in Art Studio

The minor in art studio requires 15 credit hours in art studio courses (to include three levels of a studio specialization) and introduction to art for a total of 18 credits. An art history course is recommended as part of the sequence.

Minor in Art History

The minor in art history will involve a sequence of 15 credit hours in general art history courses plus introduction to art for a total of 18 credits. A studio course will be recommended as part of this sequence.

COURSE DESCRIPTIONS

GENERAL - ART EDUCATION (Code 30)

- | | |
|---|-------------------------|
| 30.101 INTRODUCTION TO ART | 3 semester hours |
| Reviews great works of art, past and present, with an emphasis of the structure of art as determined by civilization, communication, and expression. | |
| 30.205 CHILDREN'S ART | 3 semester hours |
| Provides encounters with the art of children and ways to promote attitudes of discovery and invention, with emphasis on growth of expression. | |
| 30.303 CRAFTS IN SPECIAL EDUCATION | |
| Presents a workshop course designed to involve students in a variety of craft experiences for many different types of special learners. | |
| 30.306 VISUAL ARTS FOR THE EXCEPTIONAL CHILD | 3 semester hours |
| Stresses the importance of art activity, theory and practice, as a means of enriching and stimulating special children's awarenesses of themselves and their work. Emphasizes those positive aspects for creative activity which the handicapped child possesses. | |
| <i>Recommended for special education and psychology majors with junior class standing.</i> | |
| 30.350 ART EDUCATION IN THE ELEMENTARY SCHOOL | 3 semester hours |
| Reviews theories and techniques basic to the use of art in the elementary school. | |

- 30.385 PHILOSOPHY AND PSYCHOLOGY OF ART** **3 semester hours**
 Studies 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.

ART HISTORY

(Code 31)

- 31.215 AMERICAN ART HISTORY** **3 semester hours**
 Studies the history of visual arts in America.
- 31.225 HISTORY OF ARCHITECTURE** **3 semester hours**
 Presents a study-survey of great architectural works of the past and present with an emphasis on American architecture from the 16th to the 20th century.
- 31.235 EARLY EUROPEAN ART HISTORY** **3 semester hours**
 Studies the history of the visual arts on the European continent from the prehistoric up to and including the Late Gothic.
- 31.236 LATE EUROPEAN ART HISTORY** **3 semester hours**
 Studies 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 semester hours**
 Studies the history of the visual arts of the Islamic World.
- 31.346 ORIENTAL ART HISTORY II** **3 semester hours**
 Studies the history of the visual arts in South India, Indonesia, China and Japan.
- 31.355 HISTORY OF MODERN ART** **3 semester hours**
 Contemporary movements in art from the mid-nineteenth century to the present.
(Offered fall only.)
- 31.375 INDEPENDENT STUDY IN ART HISTORY** **3 semester hours**
 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 interest.
(See Section 7.5)
- 31.395 VISUAL AESTHETICS** **3 semester hours**
 A seminar emphasizing artistic concern with environmental relationships, and theories of aesthetics and art criticism.
(Offered spring only)
- 31.415 PRIMITIVE ARTS** **3 semester hours**
 Surveys graphic arts, literature, music, and the dance of ancient and non-European cultures, with slides, films, specimens, and recordings. This course is also listed as anthropology 46.410. Offered in cooperation with the department of anthropology.

STUDIO

(Code 32)

Note: Studio courses meet 6 periods per week for 3 semester hours credit. Level I Studio courses open to all students.

- 32.111 DRAWING I**
 The introduction to Drawing will explore various attitudes toward drawing and explore various drawing materials. Studio practice and critiques will emphasize observation, individuality, craftsmanship, self-evaluation, and growth within each person.
- 32.150 DESIGN I** **3 semester hours**
 An introduction to the basic fundamental principles of design and the organization of the visual elements, involving both two and three dimensional problems.
- 32.201 CERAMICS I** **3 semester hours**
 Introduces the processes of making and firing ceramic objects.
- 32.202 CERAMICS II** **3 semester hours**
 Affords students the opportunity to become more involved by selecting their own methods of working.
Prerequisite: Art 32.201.

- 32.212 DRAWING II** **3 semester hours**
 There will be continued exploration of attitudes and materials stressing composition and form. Work from the human skeleton and linear perspective to be pursued.
Prerequisite: Art 32.111.
- 32.221 FABRIC DESIGN I** **semester hours**
 Introduction to a variety of methods, approaches, tools, materials, and visual concepts in designing with fibers. *(Offered fall only.)*
- 32.222 FABRIC DESIGN II** **3 semester hours**
 Presents a continuation of fabric design I with limited areas of concentration selected by each student. Professional methods approaches and attitudes discussed. *(Offered fall only.)*
Prerequisite: 32.221
- 32.231 PAINTING I** **3 semester hours**
 Introduction to the methods, materials and concepts of painting. Provides exploration and sensitivity to environment through color.
- 32.232 PAINTING II** **3 semester hours**
 Devotes attention to technical skill inherent in the image formation. Study of the landscape as a concept in painting.
Prerequisite: 32.231.
- 32.241 SCULPTURE I** **3 semester hours**
 Provides a studio course in three-dimensional expression, with its primary goal to expose the student to basic sculptural materials.
- 32.242 SCULPTURE II** **3 semester hours**
 Promotes continued development in the use of materials and processes directing itself towards unique individual expression.
Prerequisite: 32.241.
- 32.251 WEAVING I**
 Provides an introduction to weaving including foot powered looms and off-loom techniques. Weaves, fibers, spinning, and looms will be part of the studio experience.
Prerequisite: 32.150 or permission of instructor. *(Offered spring only.)*
- 32.252 WEAVING II**
 The loom controlled sampler will be required plus continued experience in weaving techniques and artistic decisions dealing with fibers.
Prerequisite: 32.251
- 32.261 GRAPHICS I: PRINTMAKING** **3 semester hours**
 Introduction to the methods, materials and concepts of graphic art through exploration of basic printmaking techniques.
- 32.262 GRAPHICS II: PRINTMAKING** **3 semester hours**
 Emphasis on color printmaking and color registration procedures. Provides a concentration in serigraphy and intaglio techniques.
Prerequisite: 32.261.
- 32.272 DESIGN II** **3 semester hours**
 Continued experimentation with an exploration of various design problems at the intermediate level, including color theory, and application.
Prerequisite: 32.272
- 32.273 DESIGN III** **3 semester hours**
 Advanced design problems will be undertaken stressing individualized productions and what will become future involvement and individual expression through design.
Prerequisite: 32.272
- 32.275 CRAFTS I** **3 semester hours**
 Introduction to a varied array of crafts, methods, tools, materials, techniques and concepts.
Open to all students.
- 32.276 CRAFTS II** **3 semester hours**
 Provides a continued exploration of selected in-depth crafts processes and concepts on a more professional basis.
Prerequisite: 32.275

- 32.303 CERAMICS III** **3 semester hours**
 Provides the student opportunity to specialize through the pursuit of making an art object.
Prerequisite: Art 32.202.
- 32.304 CERAMICS IV** **3 semester hours**
 Allows the student to be responsible for making, firing, and showing his/her own wares.
Prerequisite: Art 32.303.
- 32.313 DRAWING III** **3 semester hours**
 Continued studio practice, outside assignments, critiques will stress individuality and deep involvement of personal expression. An individual project will be pursued by each student.
Prerequisite: Art 32.212.
- 32.314 DRAWING IV** **3 semester hours**
 Continued studio practice, outside assignments, critiques will stress individuality and deep involvement of personal expression. An individual project will be pursued by each student.
Prerequisite: Art 32.313.
- 32.323 FABRIC DESIGN III** **3 semester hours**
 Provides 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: 32.222 *(Offered fall only.)*
- 32.324 FABRIC DESIGN IV** **3 semester hours**
 Presents 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.
Prerequisite: 32.323 *(Offered fall only.)*
- 32.333 PAINTING III** **3 semester hours**
 Provides development into maturity of study and statement. Study of the figure as a concept in painting.
Prerequisite: 32.232.
- 32.334 PAINTING IV** **3 semester hours**
 Provides advanced work planned for individual needs. Paintings are structured from experiences based upon previous development.
Prerequisite: 32.333.
- 32.343 SCULPTURE III** **3 semester hours**
 Focuses on the expansion of expression and its relationships to sculptural processes.
Prerequisite: 32.242.
- 32.344 SCULPTURE IV** **3 semester hours**
 Presents advanced work planned for individuals needs toward a maturing style in sculpture.
Prerequisite: 32.343
- 32.353 WEAVING III** **3 semester hours**
 Provides continued experience in weaving techniques with emphasis on in-depth production, 2D or 3D.
Prerequisite: 32.252. *(Offered spring only)*
- 32.354 WEAVING IV** **3 semester hours**
 Develops an individualistic approach to weaving with emphasis on in-depth production.
Prerequisite: 32.353. *(Offered spring only)*
- 32.363 GRAPHICS III: PRINTMAKING** **3 semester hours**
 Exploration of mixed media printmaking methods and concepts. Photographic and lithographic techniques are emphasized.
Prerequisite: 32.262.
- 32.364 GRAPHICS IV: PRINTMAKING** **3 semester hours**
 Exploration of experimental printmaking. Emphasis on personal expression.
Prerequisite: 32.263.

32.380 JEWELRY MAKING**3 semester hours**

Studies 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.

*(Offered spring only)***32.395 ART AND CULTURE OF FRANCE****3 semester hours**

Provides a study-tour of France with specific attention to French Art seen in relation to its social and cultural environment. The course will feature different themes each time it is offered. Visits will be planned to areas relating to this theme. In the past, themes have been "The Age of Francis I," "The Art of Provence," and "The Normandy Influence."

32.475 INDEPENDENT STUDY IN STUDIO ARTS I**1-3 semester hours***(See Section 7.5)***32.476 INDEPENDENT STUDY IN STUDIO ARTS II****1-3 semester hours**

Stresses 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 chairperson 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.

32.480 INTERNSHIP IN ART**3-6 semester hours**

Provides upper level art majors with an opportunity to acquire meaningful experiences in practical work situations outside of the regular courses prescribed by the college art curriculum. (e.g., museum curator, designers, merchandising operations, artists). Course may be repeated with consent of adviser and department chairperson.

32.490 ART GALLERY**3 semester hours**

Provides 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 INDEPENDENT STUDY IN ART MEDIA**3 semester hours**

Stresses 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 chairperson's and dean's approval.

*(See Section 7.5)***32.496 INDEPENDENT STUDY IN ART MEDIA II****1-6 semester hours**

Stresses 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 chairperson's and dean's approval.

(See Section 7.5)

BIOLOGICAL AND ALLIED HEALTH SCIENCES

FACULTY:

Professors James E. Cole (Chairperson), Judith P. Downing, Phillip A. Farber, Michael Herbert, Frederick C. Hill, Julius R. Kroschewsky, Louis V. Mingrone, Joseph P. Vaughan; Associate Professors George J. Gellos, Robert G. Sagar; Assistant Professors John R. Fletcher, Mark S. Melnychuk, Lynne C. Miller, James E. Parsons and Cynthia A. Surmacz.

BIOLOGY:

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

Biology 50.110, 120, 332, 351, 380; 50.331 or 361 or 364 or 462; 50.371 or 372 or 472 and additional biology courses for a minimum of 30 credits; Chemistry 52.111, 112, and 113, 231, 232 and two additional chemistry courses (7 or 8 semester hours) to be selected from 52.222, 233, 311, 312, 421, 422, 433; Physics 54.111, 112 or 54.211, 212; Mathematics (6 or more cr. hrs.) 53.141 or 48.160, and 123; or 53.141 or 48.160 and 53.125, or 53.125, 126; Languages and Cultures: at least one semester of any foreign language at the 102 level or above. Options within the major exist in both Microbiology and Marine Biology. Students should contact the department for option requirements.

BIOLOGY:

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

Biology 50.110, 120, 332, 351, 380, 50.371 or 372 or 472; and additional biology courses for a minimum of 30 credits; Chemistry 52.111, 112 and 113; 211, 233 or 52.231, 232; Mathematics 9 semester hours to be selected from 53.123, 141, or 48.160 and 53.175; Languages and Cultures: at least one semester of foreign language at the 102 level or above.

Minor in Biology (20 credits):

Biology 50.242, 243, 342, 343 and 9 credits selected from 50.455, 50.472 plus four courses yet to be developed (microbial physiology, microbial genetics, applied microbiology, and mycology).

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

COURSE DESCRIPTIONS

Biology (Code 50)

- 50.101 GENERAL BIOLOGY I** **3 semester hours**
Presents major concepts and principles of biology relating to humans. Lecture and discussion. Not for biology majors.
- 50.102 GENERAL BIOLOGY II** **3 semester hours**
Studies biology from the ecological, evolutionary, neural and behavioral perspective with emphasis on man. Not for biology majors.
- 50.103 QUEST BIOLOGY** **3 semester hours**
Studies the biological and environmental relationships with man as a participant for survival in a natural setting. Not for biology majors.

(Offered summer only.)

- 50.107 MEDICAL TERMINOLOGY** **1 semester hour**
 Studies roots, prefixes and suffixes of medical terms via programmed instruction. Required of all health science biology majors. Recommended for other biology majors and other students in the health sciences. Should be taken during the freshmen year.
- 50.110 GENERAL ZOOLOGY** **4 semester hours**
 Introduces fundamental principles of zoology as applied to representative groups of animals. Laboratory work emphasizes the comparative development, anatomy, physiology, and behavior of representative animals. 3 hrs. lecture/3 hrs. laboratory per week.
- 50.111 GENERAL BIOLOGY LABORATORY** **1 semester hour**
 Offers "hands on" experience emphasizing biological concepts. 2 hrs. lab/wk. No previous knowledge of biology is necessary. Not for biology majors.
- 50.120 GENERAL BOTANY** **4 semester hours**
 Introduces fundamental principles of taxonomy, anatomy, morphology, physiology, and genetics as applied to the plant kingdom. 3 hours lecture/3 hours laboratory per week.
- 50.173 ANATOMY AND PHYSIOLOGY I** **4 semester hours**
 Provides an introductory course integrating the structure and function of the human body. This portion covers: fundamental principles of anatomy and physiology, the chemical basis of life, cell structure and function, tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. 3 hours lecture/3 hours laboratory per week. (Not applicable toward a major in biology.)
- 50.174 ANATOMY AND PHYSIOLOGY II** **4 semester hours**
 Provides an introductory course integrating the structure and function of the human body. This portion covers: endocrine system, blood and defense mechanisms, cardiovascular system, lymphatic system, respirator system, digestive system, metabolism, nutrition, urinary system, fluid & electrolyte balance, reproductive system, growth and development and human genetics. 3 hours lecture/3 hours laboratory/week. (Not applicable toward a major in biology.)
Prerequisite: 50.173 or consent of instructor.
- 50.205 INTRODUCTION TO NUTRITION** **3 semester hours**
 Provides students with a foundation of nutritional concepts so that sound nutritional practices can be applied to their personal lives incorporated into their careers. Concepts presented include nutritional requirements for optimal health and performance throughout the lifespan, making food choices in the marketplace, analyzing nutritional information in the media and controversial issues in nutrition and health.
(Not applicable toward a biology major).
- 50.211 INVERTEBRATE ZOOLOGY** **3 semester hours**
 Studies the principal phyla of invertebrate animals in relation to their anatomy, classification, and behaviors in the ecosystems in which they participate. The field trip component of this course may include additional student costs of approximately \$35 for food and lodging. 3 hrs. lecture/2 hrs. laboratory per week.
Prerequisite: 50.110 *(Offered spring only.)*
- 50.212 VERTEBRATE ZOOLOGY** **3 semester hours**
 Studies the biology of vertebrate animals, emphasizing morphology, physiology, embryology, and behavior. Reviews evolutionary and ecological aspects of each class. Includes 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 per week.
Prerequisite: 50.110 *(Offered fall only.)*
- 50.230 HUMAN SEXUALITY** **3 semester hours**
 Presents an overview of the role of sexuality in the life of humans. Considers anthropological, biological, historical, psychological and sociological aspects of sexuality. Addresses values, ethics, and responsible decision-making. Three hours per week.
(Not applicable toward a major in Biology.)

- 50.231 BIOLOGY OF AGING** **3 semester hours**
 The biological mechanisms of the aging process are discussed with special emphasis on these processes in humans. Discussions include studies of aging at the molecular, cellular, systems and organism levels of organization. The course consists of 3 hours of lecture per week.
(Not applicable toward a biology major).
- 50.233 HUMAN GENETICS** **3 semester hours**
 Explores principles of human genetics and their application to problems in biology, medicine, psychology, special education, anthropology, and sociology. 3 hrs. lecture per week.
Prerequisite: 50.101 or 110 or consent of instructor.
- 50.240 INTRODUCTORY MICROBIOLOGY** **3 semester hours**
 Presents elementary aspects of morphology, metabolism, and cultivation of bacteria, viruses and other microorganisms with consideration of their relationship to public health and various industrial processes. Two hours lecture, two hours laboratory per week.
Prerequisite: A course in science or consent of the instructor. (Not applicable toward a major in Biology.)
- 50.242 GENERAL BACTERIOLOGY** **3 semester hours**
 Introduces fundamental principles of nomenclature, classification, microscopy, cytology and anatomy, cultivation, growth, metabolism, and genetics of the microbial world. Microbial interrelationships and control will be integrated into a systematic approach to classical bacteriology as it relates to humans and the environment. 3 hrs. lecture/discussion per week.
- 50.243 GENERAL BACTERIOLOGY LABORATORY** **2 semester hours**
 Provides a laboratory experience to fortify the student's didactic learning in general bacteriology (50-242). Emphasis will be on microscopy, the cytology & anatomy of bacteria, culture methodology, growth, reproduction, enumeration, physiology, control by both physical and chemical agents, genetics, microbial interrelationships, quality control and laboratory safety. Four hours per week.
Prerequisite: May be taken with 50.242 or following.
- 50.252 FIELD ZOOLOGY** **3 semester hours**
 Studies common vertebrates (excluding birds) of North America, with emphasis on the observation, collection, and recognition of local fauna. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.110 or consent of instructor. (Offered summer only.)
- 50.253 FRESHWATER BIOLOGY** **3 semester hours**
 Emphasizes the chemical, physical and biological aspects of freshwater environments. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.110 and 120 or consent of instructor. (Offered summer only.)
- 50.254 SOCIAL IMPLICATIONS OF BIOLOGY** **3 semester hours**
 Relates biology to contemporary problems related to population, medicine, food, environments, etc. A course designed to encourage students to consider values, ethics, and responsible decision making. 3 hrs. lecture/discussion per week. (Not applicable toward a major in Biology.)
- 50.263 FIELD BOTANY** **3 semester hours**
 Addresses identification and classification of seed plants represented in local flora. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.120 or consent of instructor. (Offered summer only.)
- 50.281-289 SPECIAL TOPICS, BIOLOGY/ALLIED HEALTH** **1-3 semester hours**
 Presents an area of biology or allied health of interest to a general audience.
Prerequisite: determined by the instructor. (Not applicable toward a major in Biology.)
- 50.321 COMPARATIVE BIOLOGY OF NON-VASCULAR PLANTS** **3 semester hours**
 Provides a phylogenetic study of major non-vascular plants with emphasis on development, structure, reproduction and selected ecological aspects. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.120.
- 50.322 COMPARATIVE BIOLOGY OF VASCULAR PLANTS** **3 semester hours**
 Provides a phylogenetic study of major vascular plants with emphasis on their development, structure, reproduction and selected paleobotanical aspects. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.120

- 50.331 EMBRYOLOGY** **3 semester hours**
Reviews patterns, processes and principles of animal development. Laboratory studies emphasize maturation and organization of germ cells, and developmental processes of a number of animal types. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.110 or consent of the instructor. *(Offered spring only)*
- 50.332 GENETICS** **3 semester hours**
Addresses 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 per week. Laboratory hours may vary.
Prerequisite: 50.110 or 50.120.
- 50.342 MEDICAL BACTERIOLOGY** **3 semester hours**
Provides a study of bacteria capable of causing disease in humans. The emphasis will be on the laboratory aspects of bacterial disease but includes: pathogenicity, identification, diagnosis, treatment and prevention. 3 hrs. lecture, 2 hrs. lab/week.
Prerequisites: 50.242 and 243, or consent of instructor.
- 50.343 IMMUNOLOGY** **3 semester hours**
Presented as a lecture course: responses to infectious agents, immunochemistry, immunobiology, clinical laboratory applications, tissue transplantation. 3 hrs. lecture/discussion per week.
Prerequisite: 50.342; background in organic chemistry is recommended.
- 50.351 GENERAL ECOLOGY** **3 semester hours**
Introduces principles and concepts pertaining to energy flow, limiting factors, habitat studies, succession patterns, and population studies at the species, interspecies and community level. The field trip component of this course may include additional student costs of approximately \$35 for food and lodging. 2 hrs. lecture, 3 hrs. laboratory per week.
Prerequisite: 50.110 or 120 or consent of instructor.
- 50.361 COMPARATIVE VERTEBRATE ANATOMY** **3 semester hours**
Presents a comparative study of the chordates, emphasizing the vertebrate classes. Particular attention is given to structure, morphogenesis, functional adaptations and evolutionary trends. Laboratory emphasis is placed on the lanprey, shark, cat, and heat and brain of sheep. 2 hrs. lecture, 3 hrs. lab/wk.
Prerequisite: 50.110 or consent of instructor.
- 50.364 VERTEBRATE HISTOLOGY** **3 semester hours**
Studies vertebrate tissues from various body systems. Laboratory studies include the use of prepared slides, and color photomicrographs. 2 hr. lecture, 3 hr. laboratory per week.
Prerequisite: 50.110 or consent of instructor.
- 50.365 HISTOLOGICAL AND HISTOCHEMICAL TECHNIQUES** **3 semester hours**
Provides theory and practice in the use of histological and histochemical techniques in a laboratory format. Fixation, preparation embedding, sectioning and staining of various animal tissues. 1 hr. lecture, 4 hrs. laboratory per week.
Prerequisite: Recommend 50.364 and 52.211 or 231, or consent of instructor.
- 50.366 ANATOMY AND PHYSIOLOGY; HEAD
NECK AND THORAX** **3 semester hours**
Studies the anatomy, physiology, and development of the head, neck, and thorax. Emphasizes the organ systems that relate to the hearing and speech mechanisms. 3 hrs. lecture, 2 hrs. laboratory per week. (Preference given to communication disorders students.)
(Not applicable toward a major in biology.) *(Offered spring only.)*
- 50.371 VERTEBRATE PHYSIOLOGY** **3 semester hours**
Those principles of cell physiology which are basic to the function of the following mammalian tissue and systems are studied; blood, metabolic, neuromuscular, cardiovascular and endocrine. Neural and chemical processes of the aforementioned are emphasized. 3 hrs. lecture, 2 hrs. laboratory per week.
Prerequisite: 50.110 and 52.101 or 111 and 113 or consent of instructor. Background in organic chemistry, algebra and, at least, sophomore standing recommended.

- 50.372 PLANT PHYSIOLOGY** **3 semester hours**
 Presents an introduction to plant function including discussions of water relations, carbohydrate metabolism and translocation, photosynthesis, mineral nutrition, plant growth hormones and growth and development. 3 hrs. lecture per week.
Prerequisite: 50.120; Chemistry 52.211 or 231 or consent of instructor.
(Offered spring only)
- 50.380 BIOLOGY SEMINAR** **1 semester hours**
 Considers important topics in modern biology in a format of informal discussion. One hour per week.
- 50.390 INDEPENDENT STUDY IN BIOLOGY I** **1-3 semester hours**
 Acquaints 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 semester hours**
 Acquaints 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** **3 semester hours**
 Studies the 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: 52.232 or 233; 53.141 or 48.160 or consent of instructor.
- 50.431 EVOLUTION** **3 semester hours**
 Studies the major concerns of the theory of evolution and contributions toward their solutions made by genetics, paleontology, systematics and ecology. 3 hrs. lecture per week.
Prerequisite: 50.110 or 120; 50.332 recommended.
- 50.441 CYTOLOGY AND CYTOGENETICS** **3 semester hours**
 Studies the 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 per week.
Prerequisite: 50.233 or 332; 52.211 or 231; or consent of instructor.
- 50.454 ETHOLOGY** **3 semester hours**
 Presents a description and classification of animal behavior, its evolution and biological function. Emphasizes mechanisms underlying behavior, especially species-typical behavior. 3 hrs. lecture, 2 hrs. laboratory per week.
Prerequisite: 50.110 and 371 or consent of instructor.
- 50.455 ENVIRONMENTAL MICROBIOLOGY** **3 semester hours**
 Provides a 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 per week.
Prerequisite: A course in microbiology or consent of instructor.
- 50.457 ENTOMOLOGY** **3 semester hours**
 Studies the physiology, morphology, behavior, classification, and general biology of the insects. A collecting period will provide an opportunity for students to collect, mount, and properly display insects for study. Taxonomic emphasis limited to order and family. Equivalent to a minimum of five hours/week including laboratory.
Prerequisite: 50.110.
- 50.459 ORNITHOLOGY** **3 semester hours**
 Studies the biology of birds including bird identification in the field by song and sight. Studies birds of this region in relation to migration, time of arrival and nesting. 2 hrs. lecture, 3 hrs. laboratory per week. Some study off campus may be required. The field trip component of this course may include additional costs of approximately \$35 for food and lodging.
Prerequisite: 50.110 or consent of instructor.

50.462 PLANT ANATOMY**3 semester hours**

Outlines recent concepts of plant anatomy and historical consideration of classical researchers. Reviews structure, function, growth and morphogenesis of the vascular plants. Addresses composition and growth of meristems and the phenomena of subsequent tissue differentiation. Describes anatomical organization by developmental and comparative methods in order to explain important cell, tissue and organ relationships. two hours lecture, three hours laboratory per week.

Prerequisite: 50.120.

50.463 BIOLOGICAL PHOTOGRAPHIC TECHNIQUES**3 semester hours**

Presents 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 per week. Additional laboratory hours may be required.

50.471 MEDICAL PARASITOLOGY**3 semester hours**

Presents the life history, physiology, taxonomy and morphology of parasites of medical importance to man. Special attention given to clinical aspects such as pathology, symptomology, diagnosis, prevention and treatment. Laboratory work stresses identification of parasitic disease through living and preserved material, the proper handling of specimens and methods of professional patient interviewing.

Prerequisites: 50.110 and 52.101 or 52.111.

50.472 CELL PHYSIOLOGY**3 semester hours**

Applies physical and chemical principles to cellular processes; biochemistry of cellular constituents; physiochemical environment; bioenergetics; intermediate metabolism. 3 hrs. lecture/discussion per 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 SCIENCES****3 semester hours**

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

Prerequisite: Determined by the instructor.

**50.490 INTERNSHIP IN BIOLOGY AND ALLIED
HEALTH SCIENCES****3-15 semester hours**

A work study program open only to junior and senior biology and allied health science majors. A maximum of 6 credits may apply toward requirements of biology and allied health science majors.

50.493 HONORS INDEPENDENT STUDY-BIOLOGY RESEARCH**3 semester hours**

Open only to students admitted to the honors program. Consists of a field or laboratory investigation under the supervision of a biology faculty member.

Prerequisite: 50.390.



CHEMISTRY

FACULTY:

Professors Wayne P. Anderson, Barrett W. Benson, Lawrence L. Mack, Roy D. Pointer (Chairperson), Norman E. White; Assistant Professors Donald M. Baird, John L. Plude, Michael E. Pugh, Timothy R. Schwartz, John W. Stahl

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

Chemistry 52.111,112, 113, 222, 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.)

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

Chemistry 52.111, 112, 113, 222, 231, 232, 311, 312, 322, 490; Mathematics 53.125, 126, 171 or 172, 225; Physics 54.211, 212.

Arts and Science Major for the B.S. Clinical Chemistry degree:

Chemistry 52.111, 112, 113, 222, 231, 232, 233, 311, 312, 322, 490; Biology 50.110, 343, 371; Mathematics 53.125, 126, 225, 171 or 172; Physics 54.211, 212; Clinical Year (30 semester hours) at Geisinger Medical Center.

(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 Committee on Professional Training of the American Chemical Society (ACS) as one which meets their nationally recognized standards for undergraduate education in chemistry. This recognition is of significance to those students considering professional employment in the chemical industry and/or those seeking admission to postgraduate education programs in the sciences and medicine. Students meeting the requirements for the B.S. degree in chemistry are certified by the Department to the national office of the ACS and become eligible for membership in the society without the usual two-year waiting period.

Students who are interested in chemistry and also in business are urged to discuss proper course selection with the chemistry faculty. Through a cooperative program with the School of Business, it is possible for a student to complete course and admission prerequisites for the master of business administration degree during the four-year baccalaureate training in chemistry. The M.B.A. degree can be completed in one year of additional postgraduate study.

Students interested in chemical engineering can earn a baccalaureate degree in chemistry and a bachelor of science in chemical engineering through a cooperative program with the Pennsylvania State University. Three years at Bloomsburg and two years at Penn State are required for this program.

(See details listed under Engineering and Liberal Arts Cooperative Program.)

COURSE DESCRIPTIONS

CHEMISTRY
(Code 52)

- 52.101 INTRODUCTORY CHEMISTRY** **3 semester hours**
Presents an introduction to chemistry for students with little or no previous chemical background. Surveys the principles of chemistry with emphasis on the fundamentals of chemical and physical measurements and calculations. 3 hrs. class per week. (This course is not intended to be a beginning course for science majors.)
- 52.108 PHYSIOLOGICAL CHEMISTRY** **4 semester hours**
Surveys the essentials of organic and biochemistry. Includes bonding, structure, nomenclature, and reactions. Some discussion of metabolism and important body fluids. 4 hours class per week.
Prerequisite: 52.101 or 112.
- 52.111 GENERAL CHEMISTRY I** **3 semester hours**
First half of a two-semester sequence course offering a systematic survey of the major topics in chemistry as recommended by the American Chemical Society. It is designed to be the first college-level chemistry course for students who are interested in majoring in one of the natural sciences or mathematics. 3 hrs. class per week.
- 52.112 GENERAL CHEMISTRY II** **3 semester hours**
Continuation of the two semester sequence started in Chemistry 52.111; a survey of chemistry with major emphasis on the application of chemical principles to the solution of chemical and physical problems. 3 hrs. class per week.
Prerequisite: 52.111.
- 52.113 CHEMISTRY LABORATORY** **2 semester hours**
Introduces the theory and practice of fundamental chemistry laboratory techniques, including qualitative analysis. 4 hours per week: 1 class, 3 laboratory.
Prerequisite: either 52.101 or 111 or 112, concurrent or completed.
- 52.211 INTRODUCTORY ORGANIC CHEMISTRY** **4 semester hours**
Surveys 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 per week; 3 class, 3 laboratory.
Prerequisite: 52.112 and 113.
- 52.222 QUANTITATIVE ANALYTICAL CHEMISTRY** **4 semester hours**
Introduces fundamental principles of quantitative chemical analysis utilizing classical and modern techniques. Stresses laboratory skills and calculations of quantitative analysis. 7 hours per week; 3 class, 4 laboratory.
Prerequisite: 52.112 and 113.
- 52.231 ORGANIC CHEMISTRY I** **4 semester hours**
Introduces fundamental principles of organic chemistry. Molecular structure, stereochemistry and reactions of hydrocarbons and their derivatives. Emphasizes reaction mechanisms and synthesis. 7 hours per week; 3 class, 4 laboratory.
Prerequisite: 52.112, 113.
- 52.232 ORGANIC CHEMISTRY II** **4 semester hours**
A continuation of 52.231. Emphasizes reactions of common functional groups, synthesis and mechanism. Introduces modern spectroscopic methods and the interpretation of spectra. 7 hours per week; 3 class, 4 laboratory.
Prerequisite: 52.231.
- 52.233 INTRODUCTORY BIO-ORGANIC CHEMISTRY** **4 semester hours**
Emphasizes the organic chemistry of biomolecules and the structure and chemical transformations of proteins, carbohydrates, lipids, and nucleic acids. 6 hours per week; 3 class, 3 laboratory.
Prerequisites: 52.211 or 52.232.
- 52.311 PHYSICAL CHEMISTRY I** **4 semester hours**
Studies the laws of thermodynamics; Gibbs free energy and equilibrium, rates and mechanisms of reactions; theories of gases and solutions.
Prerequisite: 52.112, 113; 54.211 or 111; 53.125, 126. (Offered fall only.)

- 52.312 PHYSICAL CHEMISTRY II** **4 semester hours**
Continuation of 52.311; solid state, Schrodinger quantum mechanics, molecular orbital theory; spectroscopy.
Prerequisites: 52.311; 54.212 or 112; 53.225. *(Offered spring only.)*
- 52.322 INSTRUMENTAL ANALYTICAL CHEMISTRY** **4 semester hours**
Presents the 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 per week; 3 class, 4 laboratory.
Prerequisite: 52.222, 311 *(Offered spring only)*
- 52.413 PHYSICAL CHEMISTRY III** **3 semester hours**
Presents further topics in physical chemistry chosen according to student interest. Possible topics of study are: quantum chemistry, physical biochemistry, statistical thermodynamics; polymer chemistry. 3 hours class per week.
Prerequisite: 52.312. *(Offered spring only)*
- 52.421 ADVANCED INORGANIC CHEMISTRY** **3 semester hours**
Studies selected theories and principles of inorganic chemistry. Applies them to a systematic analysis of the periodic relationships and properties of the elements. 3 hours class per week.
Prerequisites: 52.312. *(Offered fall only.)*
- 52.422 ADVANCED LABORATORY** **4 semester hours**
Integrates 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 per week; 2 class, 6 laboratory.
Prerequisite: 52.232, 322. *(Offered fall only.)*
- 52.433 ADVANCED ORGANIC CHEMISTRY** **3 semester hours**
Presents advanced theory, stereochemistry and utility of organic reactions. Emphasizes reactive intermediates. 3 hours class per week.
Prerequisite: 52.232; 52.312 or concurrent. *(Offered spring only).*
- 52.441 BIOCHEMISTRY** **3 semester hours**
Reviews the chemistry of proteins, nucleic acids, lipids, carbohydrates; intermediary metabolism; introduction to enzyme chemistry. 3 hours class per week.
Prerequisite: 52.232, 52.312 or concurrent. *(Offered spring only.)*
- 52.490 CHEMISTRY SEMINAR** **1 semester hour**
Stresses preparation and presentation of scientific papers on important topics in chemistry. Involves the use of the technical literature as a data base in organizing topics for oral presentations to faculty and peers.
(Offered spring only)
- 52.491 INDEPENDENT STUDY I-SPECIAL TOPICS IN CHEMISTRY** **1-3 semester hours**
Takes the form of a directed laboratory or library-oriented investigation of one or more topics of mutual interest to student and instructor.
(See Section 7.5)
- 52.492 INDEPENDENT STUDY II - CHEMICAL RESEARCH** **3 semester hours**
Laboratory investigations of selected problems for advanced students.
(See Section 7.5)
- 52.493 HONORS INDEPENDENT STUDY-CHEMICAL RESEARCH** **3 semester hours**
Laboratory investigations of selected problems under the supervision of a faculty member. For students on the Honors Program only.
(See Section 7.5 and Honors Program Section).

COMMUNICATION STUDIES

FACULTY:

Professor Richard D. Alderfer (Chairperson); Associate Professors William A. Acierno, Mary Kenny Badami, Hitoshi Sato, Harry C. Strine III, Dana R. Ulloth; Assistant Professors William W. O'Donnell, Howard N. Schreier, James E. Tomlinson, Marci A. Woodruff, Janice M. Youse; Instructor E. Dennis Hinde; Adjunct Professor Ralph Smiley.

SPEECH COMMUNICATION

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

Requirements: 18 hours of core courses; 25.103 or 104; 25.205 or 215; 25.206 or 241; 26.112 or 211; 26.102 (208) or 209; 27.225 or 231.

Elective: Twelve semester hours in Speech Communication courses chosen from Code 25 courses. The major in Speech Communication requires a minimum of 30 semester hours.

THEATRE

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

Requirements: 18 hours of core courses; 25.103 or 104; 25.205 or 215; 25.206 or 241; 26.112 or 211; 26.102 (208) or 209; 27.225 or 231.

Elective: Twelve semester hours in Theatre chosen from Code 26.

MASS COMMUNICATION

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

Admission to the mass communication program, by application to the chairman, will be limited to a specified maximum enrollment which can be reasonably accommodated by departmental resources. A total of 25 students will be the maximum number of students per semester able to declare the major. A student shall be able to declare mass communication as his or her major only after he or she has completed at least 32 earned hours with a cumulative grade point average of 2.5 or higher. However, acceptance will be dependent on QPA as students with highest QPAs will fill available openings. Students will be notified of their acceptance as majors prior to pre-registration in the third semester of their academic schedule. If more students seek entrance into the major than is permitted by the upper limit on the total number of majors, and if they can be accommodated, they will be admitted on the ranking of the general cumulative quality point average.

Exceptions, such as internal transfer students, shall be dealt with by the chairman with the mass communication faculty on student merit according to the needs of (1) the program and (2) the students. External transfer students, with a minimum of 32 earned hours, will be admitted directly into the program.

Only students with junior (64 credits) or senior standing are permitted to enroll in 300 and 400 level courses in the area of concentration and internships. (All juniors first entering the program must complete four core courses by the end of the junior year and sign a statement of understanding that they may need additional time beyond the senior year to complete degree requirements).

Requirements: 18 hours of the core courses listed below with 25.103 or 25.104 as a prerequisite. Complete two core courses by sophomore year, if possible.

Core Courses: 20.105; *25.215 or 205; *25.445 or 307; *27.225 or 42.226; *27.115 or 230; 27.231. (Introduction to Journalism; Communication Theory or

Rhetorical Theory; Organizational Communication or Business and Professional Speech; Mass Communication and the Popular Arts or Popular Arts in America; Cinema Appreciation or History of Film; Introduction to Radio and Television.) *Designates the preferred course.

Area of Concentration: In addition to the six core courses, the student may select one area of concentration (i.e., sequence or emphasis) though it is recommended that a second area of concentration and/or courses from any other area be chosen for free elective credit; it is highly desirable to mix non-production with production areas and/or courses.

Areas of Concentration:

(Parentheses indicate a previous course number)

(Prerequisites, though part of the major, do not count toward the major, but as general education/free electives.)

Non-Production Areas:

ADVERTISING: 27.333, 451, 456 (replacing 93.345), 32.150, 97.430 (replacing 97.360).
(Prerequisites: 25.315, 40.211, 40.212, 97.310)

JOURNALISM: 20.205, 20.255, 20.304, 20.305, 27.332

PUBLIC

RELATIONS: 20.255, 20.302, 25.315, 27.332, 97.346 or 93.345 or 42.472 or 44.331.
(Prerequisites: 20.205, 40.211, 40.212.)

Production Areas:

RADIO: 27.331, 27.335, 27.480, 97.310, 93.345
Prerequisites: 25.206 and/or 25.241; 26.340 (240); 40.211; 40.212.)

TELEVISION: 27.331, 27.335, 27.338, 27.482, 97.310
Prerequisite: 25.206 and/or 25.241; 26.211; 26.340 (240), 40.211; 40.212.)

FILM: 26.211, 27.230 (130), 27.360, 27.361, 27.460.
(Prerequisites: 26.251, 26.340.)
NOTE: Any theatre courses recommended as general education or free electives.

Total hours in major, 33.

Admission procedure: Students are required to seek admission into the major by (1) filing formal application to the chairperson; (2) accompanied by a copy of his or her latest academic record, at least one week before pre-scheduling in any given term. However, a freshman intending to apply for the major when a sophomore, may be accepted in an undeclared status for advisement to mass communication program until the filing for the major, and may remain in this status until he or she has 48 earned credits.

COURSE DESCRIPTIONS

Education Degree-Communication

(Note: Requirements for the major for the B.S. in education degree are found in the section on Secondary Education, College of Professional Studies. This degree offers a communication certification with a speech, theatre, or non-print media option. (Student has adviser in both departments).)

SPEECH COMMUNICATION

Co-curricular Activity: Forensic Society
(Code 25)

Co-curricular Activity: Forensics (Intercollegiate).

- 25.103 PUBLIC SPEAKING** **3 semester hours**
A basic course in speech, with emphasis on formal speaking and audience reaction.
- 25.104 INTERPERSONAL COMMUNICATION** **3 semester hours**
Analyzes one-to-one communication for developing and changing behaviors during interpersonal speech communication.
- 25.108 FORENSIC PRACTICUM** **1 semester hour**
Participation in forensics: debate or individual speaking events. Grade awarded each semester. May be repeated for maximum of three semester hours of credit. First semester, register for 25.108.01. Second semester, register for 25.108.02.
- 25.205 RHETORICAL THEORY** **3 semester hours**
Highlights major trends in rhetoric from the sophists to contemporary rhetorical theorists.
(Fall)
- 25.206 ORAL INTERPRETATION OF LITERATURE** **3 semester hours**
Provides practice in skills necessary for conveying intellectual and emotional meanings in poetry and prose read to an audience.
- 25.215 COMMUNICATION THEORY** **3 semester hours**
Introduces definitions and models of communication as a social science; surveys methods for the scientific study of communication; describes recent developments in theories of interpersonal, small group, public and mass communication.
(Spring)
- 25.218 DISCUSSION** **3 semester hours**
Presents a survey of and practice in types and patterns of public discussion.
Prerequisite: 25.103 or 104, or consent of instructor.
- 25.220 INTERCULTURAL COMMUNICATION** **3 semester hours**
Provides an overview of speech communication as it relates to socio-cultural differences that reflect ethnic and racial experiences, knowledge and values.
Prerequisites: 25.103 or 104, or consent of instructor.
(Spring)
- 25.241 VOICE AND DICTION** **3 semester hours**
Studies the international phonetic alphabet and the causes of vocal problems.
- 25.307 BUSINESS AND PROFESSIONAL SPEECH** **3 semester hours**
Studies business and professional communication; salesmanship, conference, and interviewing.
Prerequisite: 25.103 or 104.
- 25.315 (421) PERSUASION** **3 semester hours**
Examines the way people use symbols to influence other people. Provides practice in presenting and evaluating persuasive messages.
Prerequisites: 25.103 or 104.
- 25.321 ARGUMENTATION** **3 semester hours**
Examines basic principles of argument and evidence. Provides practice through presentation and refutation of arguments in debates on controversial issues.
Prerequisite: 25.103 or 104.
(Spring)
- 25.445 ORGANIZATIONAL COMMUNICATION** **3 semester hours**
Explores theoretical and practical aspects of how communication patterns develop in organizations. Open for both graduate and undergraduate students.
(Spring.)
- 25.470 INDEPENDENT STUDY** **1-3 semester hours**
Provides for individual work and study in one of the areas of rhetoric and communication. Student finds faculty sponsor, prepares written proposal, which requires departmental recommendation and the dean's approval, arranged through the chairperson.
(See Section 7.5)

- 25.492 SEMINAR: SPEECH COMMUNICATION** **1-3 semester hours**
 Investigates significant aspects of speech communication. Specific topics vary by semester. Consult listed instructor for more information.
Prerequisite: 9 semester hours in speech communication courses (Offered on demand.)
Speech Communication Internship: See 27.497.

THEATRE ARTS

Cocurricular Activity: Bloomsburg Players
(Code 26)

See **Secondary Education for B.S. in Education, Communication Certification (theatre option).**

- 26.102 (208) INTRODUCTION TO THEATRE ARTS** **3 semester hours**
 Presents a survey: criticism, direction, play production, theatre history, stage design, and acting.
 (Fall)
- 26.108 THEATRE PRACTICUM** **1 semester hour**
 Participation in plays: acting or technical work. Grade awarded each semester. Participation for two semesters for one semester hour of credit. May be repeated for maximum of three semester hours.
- 26.112 FUNDAMENTALS OF ACTING** **3 semester hours**
 Introduces the theories and techniques of acting. Provides for individual and group exercises.
 (Fall)
- 26.209 THEATRE APPRECIATION** **3 semester hours**
 Projects materials that will make the experience of the theatre-goer more discerning, discriminating, analytical, and critical. Requires field trips.
 (Spring)
- 26.211 THEATRE PRODUCTION/STAGECRAFT** **3 semester hours.**
 Studies basic stagecraft: scene construction, painting, drafting and crewing of a show. Laboratory work required.
 (Fall)
- 26.215 (415) HISTORY OF THE THEATRE** **3 semester hours**
 Surveys structures, production practices and plays from the beginnings to Ibsen.
 (Spring)
- 26.219 (319) CHILDREN'S THEATRE** **3 semester hours**
 A survey of history, theory and production of theatre for young audiences.
 (Fall)
- 26.251 (314) THEORY OF STAGE LIGHTING AND DESIGN** **3 semester hours**
 Provides for intensive study of theory; design of lighting of a production supplemented by applied work on productions. Laboratory hours required.
 (Spring)
- 26.311 SCENE DESIGN** **3 semester hours**
 Study of scene designs, working drawings of perspective, oblique and isometric projections, drafting of floor plans, rear and front elevations. Basic pictorial expressions necessary to communicate in scene design
Requires laboratory hours.
 (Spring)
- 26.316 (411) PLAY DIRECTING** **3 semester hours**
 Studies the principles and techniques of play direction, with demonstrations, exercises, and production.
Prerequisite: One Theatre course.
 (Spring)
- 26.318 CREATIVE DRAMATICS** **3 semester hours**
 Teaches a series of theatre games and improvisation to develop imagination and creativity. The use of drama as a teaching tool.
 (Spring)

- 26.321 THEATRE AND STAGE MANAGEMENT** **3 semester hours**
Prepares students for professionalism in production of plays, films, TV, and radio shows.
(Fall)
- 26.340 SCRIPTWRITING** **3 semester hours**
Studies dramatic structure, types and styles of drama. Student required to write scripts for stage, film, radio or television.
Prerequisite: One writing course or consent of instructor. (Spring)
- 26.414 COSTUMING FOR THE STAGE** **3 semester hours**
Reviews historical developments and elements of costume design.
On demand
- 26.470 INDEPENDENT STUDY** **1-3 semester hours**
Provides for individual work and study in one of the areas of theatre. Student finds faculty sponsor, prepares written proposal, which requires departmental recommendation and the Dean's approval, arranged through the chairperson.
(See Section 7.5)
- 26.490 SEMINAR: THEATRE** **3 semester hours**
Provides for a concentrated study of an individual artist, a period, or a movement in theatre.
Prerequisite: 9 semester hours in Theatre or consent of the instructor. (Offered on demand.)
For theatre internships, see 27.497.

MASS COMMUNICATION

Co-curricular Activity: Mass Communication Club

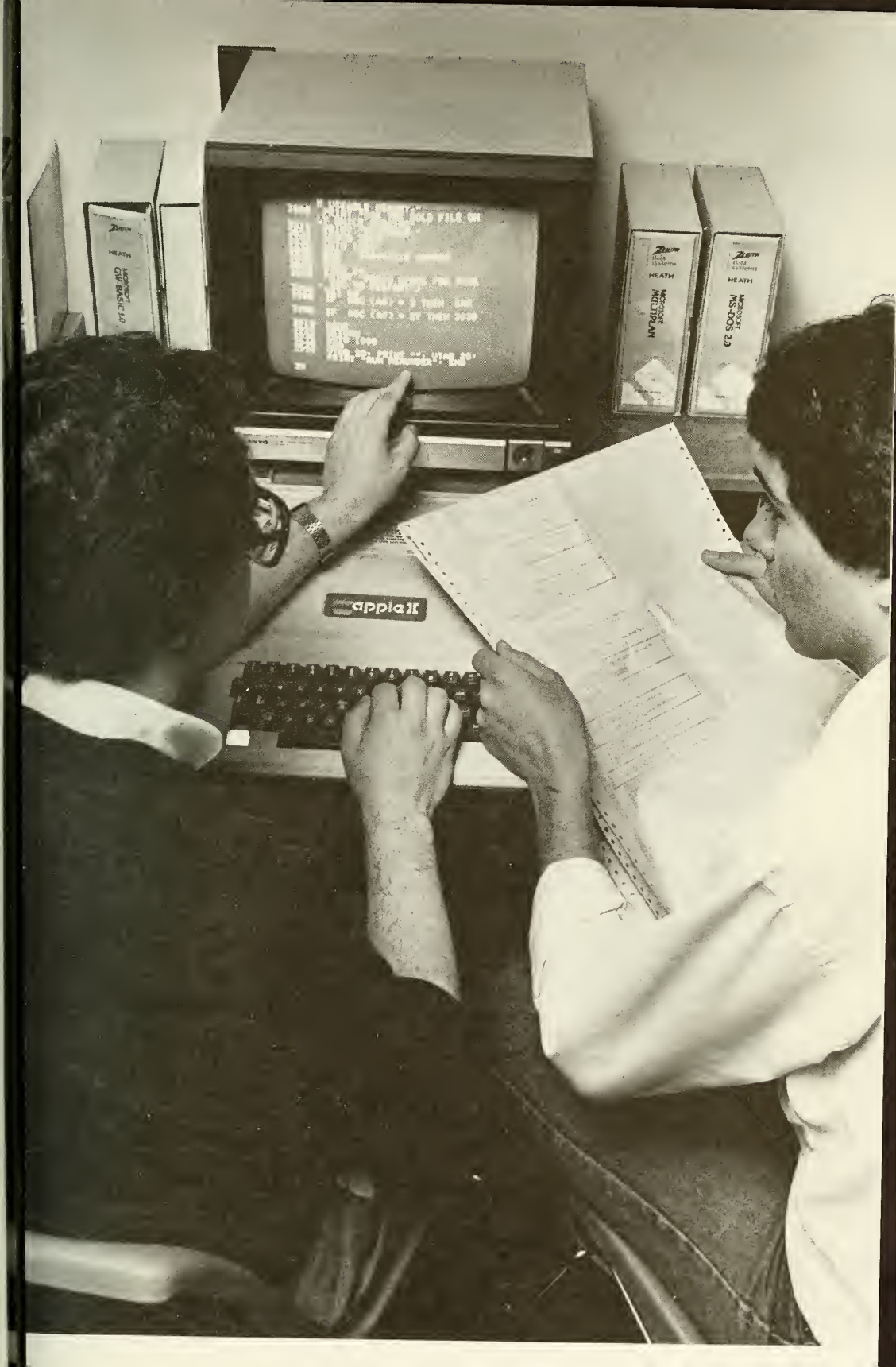
(Code 27)

See Secondary Education for B.S. in Education, Communication Certification (Non-Print Media Option).

- 27.108 MASS COMMUNICATION PRACTICUM** **1 semester hour**
Participation in film, TV, or radio productions in advertising public relations, journalism, or theatre. Grade awarded each semester. Participation for two semesters for one semester hour of credit. May be repeated for maximum of three semester hours.
- 27.115 CINEMA APPRECIATION** **3 semester hours**
Examines film form, theory and criticism to bring about a better understanding and greater appreciation of the motion picture. Student views approximately 15 feature films.
5 hours/week: 3 class, 2 laboratory. (Fall)
- 27.225 MASS COMMUNICATION AND THE POPULAR ARTS** **3 semester hours**
Gives a comprehensive overview of their relative impact on society and culture. Covers newspapers, magazines, motion pictures, radio, television, public relations, advertising, codes, regulation.
- 27.230 (130) HISTORY OF THE FILM** **3 semester hours**
Provides an overview of the history of the motion picture. Studies film genres, historical figures, technicians, and performers. Student views approximately 15 feature films.
5 hours/week: 3 class, 2 laboratory. (Spring)
- 27.231 INTRODUCTION TO RADIO AND TELEVISION** **3 semester hours**
Surveys radio and television as industry, art and technology. Laboratories in classroom.
- 27.331 BROADCAST PROGRAMMING AND MANAGEMENT** **3 semester hours**
Studies TV and radio management, programming and each medium as a business.
Prerequisite: 27.231. (Spring)
- 27.332 PUBLIC RELATIONS** **3 semester hours**
Introduction to public relations, including publicity, community relations and public affairs. Course will include hands on experience as well as theory.
Prerequisite: 20.205.
- 27.333 PERSUASION IN ADVERTISING** **3 semester hours**
Introduction to techniques and media in advertising. Course will focus on persuasive devices in creative development and methods of campaign planning.
Prerequisite: 25.315 (421)

- 27.335 BROADCAST JOURNALISM** 3 semester hours
Studies technical elements, script formats and non-dramatic materials. Provides opportunities to write and announce news, commercials, etc.
Prerequisites: 25.206 and/or 25.241; 27.231. (Fall)
- 27.338 TELEVISION ACTING AND DIRECTING** 3 semester hours
Provides instruction in acting and directing TV. Laboratory hours.
Prerequisite: 27.231. (Fall)
- 27.360 FILMMAKING I** 3 semester hours
Reviews the basic process of 16mm filmmaking in an introductory and comprehensive manner. Concentrates on making short silent films. Requires laboratory hours, plus field work by arrangement. (Fall)
- 27.361 ADVANCED FILMMAKING** 3 semester hours
Provides for the production of one or more sound films in 16 mm format from screenplay to release print. Requires laboratory hours, plus field work by arrangement. Continuation of 27.360.
Prerequisites: 26.340 (240), 26.251 (314), 27.360 or consent of instructor. (Spring, even years.)
- 27.451 DESIGN IN ADVERTISING** 3 semester hours
Principles of advertising layout and design in print and broadcasting. Includes hands-on experience in layout, typography, and paste-up in addition to theory.
Prerequisites: 27.333, 32.250. (Fall)
- 27.456 ADVERTISING MEDIA AND CAMPAIGNS** 3 semester hours
Study of the use of advertising media, methods of selection and the skills and background required for media buying. Basic principles and applications of advertising research and campaign planning, preparation and presentation, taught in a problem-solving format.
Prerequisites: 27.451 or 97.360 (Spring)
- 27.460 ADVANCED CINEMA APPRECIATION** 3 semester hours
Presents a comprehensive lecture and symposium investigating the theories of film and film language; film techniques, and the aesthetics of film images and sounds. Student views approximately 15 feature films. 5 hours/week: 3 class, 2 laboratory.
Prerequisites: 27.115 and/or 230 (130), or consent of instructor. (Spring, odd years)
- 27.470 INDEPENDENT STUDY** 1-3 semester hours
Provides for individual work and study in one of the areas of concentration of Mass Communication. (Intended for radio, television, motion picture projects or advertising/public relations/ journalism portfolios). Student finds faculty sponsor, prepares written proposal, which requires departmental recommendation and the Dean's approval, arranged through the chairperson. (See Section 7.5.)
- 27.480 SEMINAR IN RADIO PRODUCTION AND WRITING** 3 semester hours
Provides an opportunity to study and practice all aspects of radio. Requires laboratory hours.
Prerequisite: 26.340 (240), 27.231. (Spring)
- 27.482 SEMINAR IN TELEVISION PRODUCTION AND WRITING** 3 semester hours
Provides an opportunity to study and practice all aspects of TV. Requires laboratory hours.
Prerequisite: 26.211, 26.340 (240), 27.338. (Spring)
- 27.497 INTERNSHIP IN COMMUNICATION STUDIES** 3-12 semester hours
Optional, open to upper junior and senior majors in mass communication with a QPA of 3.00 in the major (i.e., core, plus area of concentration) and a general cumulative QPA of 2.75. An off-campus work-study program to be arranged by the student, adviser, and agency. All contacts regarding internships must be made: (a) through the adviser; (b) the director of the Internship Committee; and (c) must be submitted one month before the internship is to start. Course may be repeated. Credits computed on basis of: 10 hours of internship work per week equivalent to 3 credits; 20 hours, 6 credits; 30 hours, 9 credits; 40 hours, 12 credits. (A student may earn no more than a total of 15 semester hours of internship credit overall. Special arrangements must be made with internship director for summer registration).

(See Section 6.5).



COMPUTER AND INFORMATION SCIENCE

Degree

The degree, bachelor of science in computer and information science (CIS) is jointly offered by the Department of Computer and Information Systems, College of Business and the Department of Mathematics and Computer Science, College of Arts and Sciences.

Admission to the Program

Students may be admitted to the computer and information science program either through the College of Business or through the College of Arts and Sciences, depending on their career objectives.

Students who are admitted to other programs within the University and who later seek admission to the baccalaureate Computer and Information Science program must meet the following minimum requirements for selective admission to the program; completed 15 semester hours of college credit at Bloomsburg and have earned a cumulative average of 2.75 or higher. Admission to the program is based on academic performance and the actual number of students selected each year will be dependent upon the resources of the College of Business and the College of Arts and Sciences.

The Program

The College of Arts and Science CIS Curriculum emphasizes applications and systems programming in a scientific environment.

The degree will focus on analysis and design of systems software; operating systems, data management, and problem solving situations defined through mathematical analysis which utilize computer systems.

The degree obtained through the College of Arts and Science reflects a broad base of computer content courses supported by courses from the sciences, mathematics in particular. The intent of the program is to prepare the student for employment as a programmer analyst in the development of software systems applicable to many fields, particularly scientific and, to provide a strong basis for graduate study in computer science. The program enables the student to seek employment as applications programmer, programmer analyst, or system analyst with computer manufacturers or industries that specialize in system software.

The College of Business' CIS Curriculum prepares students in applications programming and information systems technology as defined to a business environment.

The degree will focus on commercial software, and hardware with an emphasis towards problem solving, data flow and analysis, design techniques, and systems solutions within a commercial context which utilize computer systems.

The degree obtained through the College of Business is restrictive in the technical requirements (computer content courses) and will require the student to develop a business emphasis. The intent of the program is to prepare the student for the job market in the areas of commercial systems and programming. Typical job skills necessary to compete for positions such as applications programmer, programmer analyst, systems analyst, data base administrator, and information specialist shall be provided.

Specific course requirements for the business CIS curriculum are listed under the College of Business programs and, specific course requirements for the arts and sciences CIS curriculum are listed under the Department of Mathematics and Computer Science.

ECONOMICS

FACULTY:

Professors Ujagar Bawa, W.B. Lee (Chairperson), TejBhan S. Saini; Associate Professors Peter H. Bohling, Saleem M. Khan, Robert MacMurray, Rajesh K. Mohindru, Robert Ross; Assistant Professor George B. N. Ayittey, Mehdi Hariryan, Robert Obutelewicz

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 40.246 or Mathematics 53.125; Twenty-seven semester hours elective in economics which include either Economics 40.400 or 40.446. B.A. degree, option II, intended for the student interested in Political Economy and who hopes to enter a career in some aspect of international relations or trade: Political Science 44.161, 336; Economics 40.315, 422, 460, six semester hours elective in economics; nine semester hours elective in political science. (The following pairs of courses in economics and political science are recommended as especially pertinent to the purpose of Option II: 40.423 paired with 44.405; 40.422 with 44.366; 40.433 with 44.383; 40.316 with 44.452; 40.410 with 44.336; 40.315 with 44.336; 40.315 with 44.326). Study of a foreign language recommended.

COURSE DESCRIPTIONS

ECONOMICS

B.S. degree, intended for the student interested in analytical study of economics related to business; Business 91.221 and 222 or 91.220 and 223, Business 93.345, 96.313, 97.310; Computer Science 53.175; fifteen semester hours elective in economics which include Economics 40.446.

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

Minor in Economics

The economics minor is offered to provide a basic competence in economics for non-economics majors: Twelve semester hours of a core requirement (Economics 40.211, 212, 311, and 312); six semester hours elective in economics chosen from the following areas of the discipline: (1) General Economic Theory (Economics 40.313, 315, 316, 410, 413, and 433), (2) Statistical Analysis (Economics 40.346, 400, and 446), and (3) Economic History and Systems (Economics 40.422, 423, 424, 434, and 460).

(Code 40)

40.211 PRINCIPLES OF ECONOMICS I

3 semester hours

Studies 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 semester hours

Studies microeconomics: Supply, demand, the price system; theory of consumer behavior and the firm; cost and production analysis, 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 ECONOMIC MATHEMATICS** **3 semester hours**
Presents an 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 semester hours**
Reviews the 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 semester hours**
Stresses the 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 semester hours**
Presents the 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. *(Offered fall only.)*
- 40.315 BUSINESS AND GOVERNMENT** **3 semester hours**
Surveys 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. *(Offered fall only.)*
- 40.316 URBAN ECONOMICS** **3 semester hours**
Applies economic theory and recent empirical findings to urban resource use. Analyzes problems of employment, housing, education, transportation, pollution and equal opportunity.
Prerequisites: 40.212. *(Offered fall only.)*
- 40.317 POPULATION AND RESOURCE PROBLEMS** **3 semester hours**
Reviews classical theories of population growth, recent economic models of population correlating natural resources, capital accumulation, and technological change, and population problems in North America, European and developing countries. Analyzes recent trends in birth and death rates as factors in population growth. Studies measures of population and labor force, their distribution by age, sex, occupation, regions; techniques for projecting population levels.
Prerequisites: 40.212. (Not offered on a regular basis.)
- 40.346 BUSINESS AND ECONOMICS STATISTICS I** **3 semester hours**
Presents descriptive statistics, averages, dispersion, elements of probability, index numbers, time series, introduction to regression and analysis, theory of estimation and testing of hypothesis as applied to business and economic problems.
Prerequisite: 40.212.
- 40.400 INTRODUCTION TO ECONOMETRICS** **3 semester hours**
Applies 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. *(Offered fall only.)*
- 40.410 PUBLIC FINANCE** **3 semester hours**
Analyzes 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. *(Offered spring only)*

40.413 MONEY AND BANKING**3 semester hours**

Reviews the historical background and development of monetary practices and principles of banking with special attention given to commercial banking and credit regulations, and current monetary and banking development.

Prerequisite: 40.212.

40.415 ENVIRONMENTAL ECONOMICS**3 semester hours**

A study of the economics of environmental quality. Environmental facts and social circumstances are examined with particular emphasis on market and nonmarket solutions to the environmental problems. Topics include: the private market and its efficiency, externalities, environmental quality as a public good, income distribution effects of government environmental programs; water resources and water quality, problem of air quality, and quality of life and other environmental problems; prohibitions on, and regulation of, polluting activities, taxes, subsidies, and effluent charges; population, economic growth and environmental quality.

40.422 CONTRASTING ECONOMIES**3 semester hours**

Outlines theories of capitalism and socialism with special emphasis on Marxian theory. Compares the theoretical and actual performance of capitalism, socialism, and communism.

Prerequisite: 40.212.

*(Offered spring only)***40.423 HISTORY OF ECONOMIC THOUGHT****3 semester hours**

Surveys 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.

*(Offered spring only)***40.424 ECONOMIC HISTORY OF THE WESTERN WORLD****3 semester hours**

Presents a 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.

Prerequisites: 40.212.

*(Offered fall only.)***40.433 INTERNATIONAL ECONOMICS****3 semester hours**

Addresses the pure theory of international trade. Outlines 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.

*(Offered spring only)***40.434 ECONOMIC GROWTH OF UNDERDEVELOPED AREAS****3 semester hours**

Presents studies 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 settings.

Prerequisite: 40.212.

*(Offered fall only.)***40.446 BUSINESS AND ECONOMIC STATISTICS II****3 semester hours**

Presents sampling and sampling distributions; probability; tests of hypothesis; decision making; simple correlation analysis; contingency tables, analysis of variance; computer applications; designs of experiments.

Prerequisites: 40.212, 40.346.

40.460 ADVANCED POLITICAL ECONOMY**3 semester hours**

Applies economic and political models of social decision-making to historical problems from local through international levels. Presents an evaluation of market; political and mixed techniques in particular areas from the 18th through the 20th centuries.

Prerequisite: 40.212. (Not offered on a regular basis.)

45.466 RESEARCH METHODS IN THE SOCIAL SCIENCES**3 semester hours**

This course is offered in the Department of Sociology and Social Welfare and described with the sociology courses.

Prerequisite for students of economics; 40.346 and permission of Economics Department.

40.470 SENIOR SEMINAR

3 semester hours

Discusses 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. (Offered spring only.)

40.490 INDEPENDENT STUDY IN ECONOMICS

1-3 semester hours

Provides 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

(Dr. David Superdock-Program Coordinator)

The faculties of Bloomsburg University and the Colleges of Engineering and Earth and Mineral Science of The Pennsylvania State University have agreed to establish a cooperative educational program in liberal arts and engineering. Three years will be spent by an enrolling student at Bloomsburg, 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 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.*
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 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 University. 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, 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 students' admissions profiles will be prepared by the Bloomsburg University 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.

Bloomsburg University 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. The overall QPA for transfer is either 2.50 or 3.0 depending on the engineering program.

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 agreement. This committee assists student recruitment and advisement and monitors any changes proposed in the cooperative agreement, communicating these changes to the dean of arts and sciences 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 University 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 University transcript including all grades earned through the spring semester of the second year; a schedule of courses for the fall and spring of the third year, and a recommendation from Bloomsburg's Pre-Engineering Advisory Committee that the student should 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 The Pennsylvania State University will be changed from a provisional basis to a permanent basis if the student has maintained the necessary overall average, is in good standing at Bloomsburg University and has fulfilled all conditions, if any, specified in the student's provisional admission.

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

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

**Enrollment in the Engineering Science program is limited to those students attaining an average of "B" or higher during their program at Bloomsburg 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 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 University 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 or The Pennsylvania State University catalog.

These courses must be completed before transferring:

Mathematics 53.125, 126, 225, 226, 322, 314 (18 credits)	Mathematics, Penn State Equivalent 161, 162, 240, 250, 260
Chemistry	Chemistry

52.111, 112, 113 (8 credits)

Physics

54.211, 212, 310 (11 credits)

English

20.101, 200 or 201, 104 (6 credits)

Speech Communication

25.103 (3 credits)

Computer Science

53.271 (3 credits)

²Engineering Drawing

51.173, 174 (2 credits)

³Engineering Mechanics

54.301, 302

Engineering Drawing 51.174 is not required by ceramic science or metallurgy students.

The dynamics course (54.302) is not required by ceramic science, chemical engineering, metallurgy, nuclear engineering, and petroleum and natural gas engineering students.

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

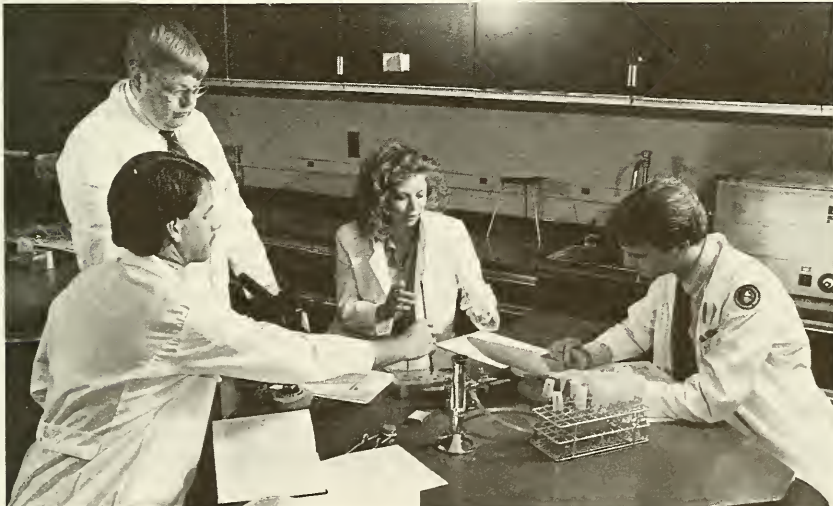
Students intending to enroll in the chemical engineering major must also have completed Organic Chemistry I and II (52.231 and 232) at Bloomsburg but need not have taken Engineering Mechanics II (Dynamics).

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 University 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, humanities courses and the general education requirements of Bloomsburg 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 or 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), William M. Baillie, Charles C. Kopp, Susan Rusinko, Gerald H. Strauss; Associate Professors M. Dale Anderson, Walter M. Brasch, William D. Eisenberg, Ronald A. Ferdock, Lawrence B. Fuller, Ervene F. Gulley, Richard C. Savage, Riley B. Smith; Assistant Professors Nancy E. Gill, Robert G. Mecker.

ENGLISH

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

General English Option:

English 20.120, 220, 221, 222, 223, 363, 493; 20.301 or 302; One course from 20.311, 312, 411, 413; 488 or 489 or 490; One course from 20.341, 342, 343, 344, 345, 360, 370, 381, 482;

Three 300-level or 400-level English Department literature courses.

Journalism option:

20.120; 105, 205, 255, 304, 305;

One course chosen from 20.121, 221, 223;

One course from 20.311, 312, 411, 413, 46.440;

One course from 20.493, 42.398, 45.460, 48.260, 53.141;

One course from 20.251, 280, 333, 360, 362, 370, 372, 373, 374, 380;

Two additional 300- or 400-level English Department literature courses.

Minor in English: See department chairperson for course requirements.

Certificate in Journalism

The Certificate in Journalism implies introductory preparation for publication activity in teaching or in business. It is granted by the university 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 *The Voice*, *Olympian*, or *Obiter*.

(Note: Requirements for the major for the B.S. in Education degree are found in the section on Secondary Education, School of Professional Studies, Section 9.03.)

COURSE DESCRIPTIONS

ENGLISH

(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 semester hours

Study and practice of the principles of composition to improve proficiency in writing skills.

20.104 HONORS COMPOSITION

3 semester hours

Similar to 20.101 but offered only to freshmen who have been exempted from 20.101 on the basis of admission criteria. Students who successfully complete 20.104 are exempt from 20.200 and 201.

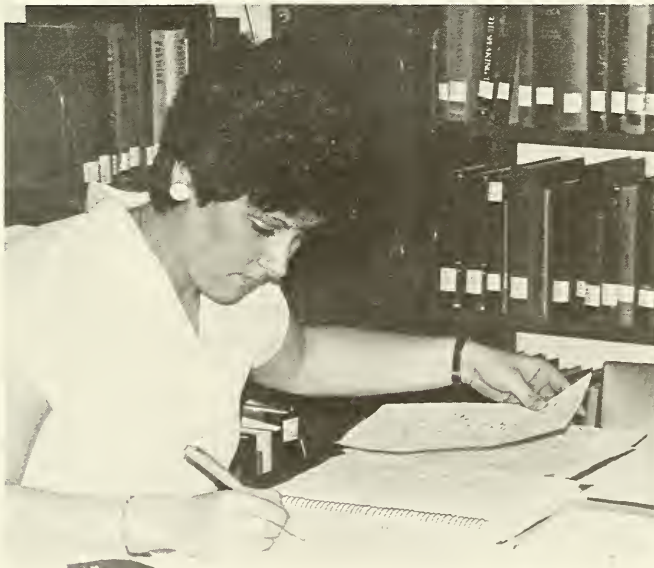
- 20.105 INTRODUCTION TO JOURNALISM** 3 semester hours
Principles and techniques of reporting, including development of journalism and the theory and practice of its principles; organizational patterns of news stories, methods of gathering news, writing various types of news stories, and fundamentals of editing.
- 20.106 WRITING FOR QUEST** 2 semester hours
(Summer QUEST students only.)
- 20.111 LANGUAGE AND SOCIAL INTERACTION** 3 semester hours
A study of varieties of language, verbal and non-verbal, and their communicative and social functions.
Not applicable toward a major in English.
- 20.112 PRACTICAL GRAMMAR AND USAGE** 3 semester hours
A study of grammatical forms, rules, and accepted usage of current written standard English, with practical application to develop skills toward the improvement of diction, sentence structure, and style.
Not applicable toward a major in English.
- 20.120 WORLD LITERATURE I** 3 semester hours
A survey of 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 semester hours
A survey of important literary works of the Western world from the 17th century to the present.
- 20.131 THE BIBLE AS LITERATURE** 3 semester hours
Examination of literary types found in Old and New Testaments and their profound influence on Western Culture.
Not applicable towards a major in English. (Offered spring only)
- 20.151 INTRODUCTION TO LITERATURE** 3 semester hours
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 semester hours
A survey of such traditional forms of oral literature as epic, ballad, folksong, folktale, and superstitions, examined in terms of origin, transmission, and influence on literature.
Not applicable toward a major in English.
- 20.200 WRITING PROFICIENCY EXAMINATION** 3 semester hours
A series of compositions written under examination conditions on topics provided by the staff. Faculty consultations and a writing laboratory are available for students in the course.
Prerequisite: 20.101.
- 20.201 COMPOSITION II** 3 semester hours
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 semester hours
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 semester hours
A survey of selections from Chaucer through Boswell and Johnson.
(Offered spring only)
- 20.221 BRITISH WRITERS II** 3 semester hours
A survey of selections from Wordsworth through Eliot.
(Offered fall only)

- 20.222 AMERICAN LITERATURE I** **3 semester hours**
A 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 semester hours**
A survey of American literature from the Civil War to modern times.
- 20.231 LITERATURE AND SOCIETY** **3 semester hours**
Readings to consider purposes, characteristics, issues, and values of specific areas--such as business, psychology, and science--from a humanistic perspective.
Not applicable toward a major in English.
- 20.232, 233 POPULAR LITERATURE** **3 semester hours**
Study of one type of popular literature, with examination of its forms, conventions, and ideas. Course content, determined by instructor, will vary. Possible topics include detective fiction, science fiction, literature of terror, and popular drama.
Not applicable toward a major in English.
- 20.251 LITERARY GENRES** **3 semester hours**
Literary form as a vehicle for expression of ideas.
(Offered spring only)
- 20.255 MASS MEDIA: PRINT** **3 semester hours**
Survey of print media with emphasis on history, forms, and content; social/political impact of print media; relationships with other media; print freedom and the law.
- 20.280 POETRY** **3 semester hours**
Exploration of the nature of poetry in terms of its aims, forms, and substance.
(Offered spring only)
- 20.301 CREATIVE WRITING** **3 semester hours**
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 semester hours**
Designed to develop in the student a greater mastery over the elements of writing. Attention is given to the problem of evaluating writing.
Prerequisite: 60 credits completed.
- 20.304 EDITING** **3 semester hours**
Designed 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.
Not applicable toward an Arts and Sciences general English major.
Prerequisite: 20.105.
- 20.305 JOURNALISM SEMINAR** **3 semester hours**
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.
Not applicable toward an Arts and Sciences general English major.
Prerequisite: 20.105 and either 20.205 or 304, or permission of instructor.
(Offered spring only)
- 20.311 STRUCTURE OF ENGLISH** **3 semester hours**
A study of the sound patterns, morphology, word-formation, lexicography, and syntax of modern English.
Prerequisite: 60 credits completed.
- 20.312 HISTORY OF THE ENGLISH LANGUAGE** **3 semester hours**
A survey of the major developments in the English language from its Anglo-Saxon origins to the present.
Prerequisites: 60 credits completed.
- 20.331 IDEAS IN LITERATURE** **3 semester hours**
An examination of such recurrent concepts in literature as freedom and fate, good and evil, and social and psychological influences.
(Offered spring only)

- 20.332 RUSSIAN LITERATURE IN TRANSLATION** **3 semester hours**
 An introduction to Russian literature from Pushkin to Pasternak. Readings in English of novels, poems, plays, and short stories.
(Offered fall only)
- 20.333 LATER AMERICAN PROSE** **3 semester hours**
 A 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. Includes such writers as Riis, Steffens, Sinclair, Allen, E.B. White, Thurber, Baldwin, Ellison, Steinbeck, Barrio, and Momaday.
(Offered spring only)
- 20.334 MAJOR AMERICAN WRITERS** **3 semester hours**
 A study of major American writers instrumental in shaping and interpreting the American experience. Writers included will vary with each presentation of the course.
(Offered alternate years.)
- 20.336, 337, 338 MAJOR BRITISH WRITERS** **3 semester hours**
 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.
(Offered spring only)
- 20.341 EARLY AND MIDDLE ENGLISH LITERATURE** **3 semester hours**
 A study of *Beowulf* and other English works in translation, and medieval chronicles and romances including *Sir Gawain and the Green Knight* and *Le Morte d'Arthur*.
(Offered alternate years.)
- 20.342 16TH CENTURY LITERATURE** **3 semester hours**
 The non-dramatic prose and verse of the period, emphasizing the last quarter of the century. Includes the humanists: Erasmus, More, Castiglione, Elyot, Ascham; Renaissance forms and ideas in Lyly, Sidney, Spenser, Daniel, Drayton, Shakespeare, Marlowe, Chapman, Greene, and others.
(Offered alternate years.)
- 20.343 17TH CENTURY LITERATURE** **3 semester hours**
 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.
(Offered alternate years.)
- 20.344 18TH CENTURY LITERATURE** **3 semester hours**
 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.
(Offered alternate years.)
- 20.345 19TH CENTURY LITERATURE** **3 semester hours**
 The major poets such as Wordsworth, Keats, Tennyson, Arnold, as well as major prose writers Hazlitt, Lamb, DeQuincey, Peacock, Newman, Huxley, Carlyle, and others.
(Offered fall only.)
- 20.351 LITERATURE FOR CHILDREN** **3 semester hours**
 Examination 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 semester hours**
 The historical development of literature aimed at adolescents or popular with them. A study of representative works in a variety of genres focusing on thematic and stylistic characteristics and literary merit.
Prerequisite: 60 credits completed. Not applicable toward an Arts and Sciences major in English.
(Offered fall only.)

- 20.360 EARLY ENGLISH DRAMA** **3 semester hours**
 Early native drama, including miracle and mystery plays, morality plays, and interludes. Elizabethan dramatists: Heywood, Marlowe, Kyd, Jonson, Webster, Middleton, and Ford.
(Offered fall only.)
- 20.362 MODERN DRAMA** **3 semester hours**
 Major Continental, English, and American plays from Ibsen to Beckett, with emphasis on contemporary attitudes, themes, and structure as contrasted with those of the traditional dramatists.
(Offered fall only.)
- 20.363 SHAKESPEARE** **3 semester hours**
 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 semester hours**
 History and development of the novel in England from its inception to the end of the nineteenth century.
(Offered alternate years.)
- 20.372 MODERN NOVEL** **3 semester hours**
 A study of major modern novelists, exclusive of American and Russian writers. Emphasizes developments in fictional art, particularly realism, naturalism, impressionism, and expressionism. Begins with early realists and moves through the writings of Mann, Proust, Lawrence, Kafka, Woolf, Joyce, and/or one or two others of the instructor's choice.
(Offered spring only)
- 20.373 AMERICAN NOVEL** **3 semester hours**
 The development of the novel in America from its beginnings (about 1800) to the present with an emphasis on form, theme, and literary and social movements and some attention to parallel developments in the European novel.
(Offered alternate years.)
- 20.374 SHORT STORY** **3 semester hours**
 A study of the history, characteristics, and techniques of the modern short story through reading and analyzing representative samples — American, British, Continental, and Latin-American.
(Offered fall only.)
- 20.380 MODERN POETRY** **3 semester hours**
 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.
(Offered alternate years.)
- 20.381 CHAUCER** **3 semester hours**
 Chaucer's major poetry, with practice in speaking and reading Middle English with an emphasis on Chaucer's literary achievement and his humanism.
(Offered alternate years.)
- 20.383 BLAKE AND YEATS** **3 semester hours**
 A study of two great poets united by their search for a vision and by having created in this search perhaps the most original and complete mythological systems in English literature.
(Offered alternate years.)
- 20.400 LITERARY STUDY ABROAD** **3 semester hours**
 A travel-study course for English majors and non- majors concentrating 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 semester hours**
 A survey of modern developments in linguistics, with special attention to transformational-generative grammar; applications of theory to patterns of language acquisition, and current adaptations for presentation as grammar in schools.
Prerequisite: 60 credits completed.
(Offered alternate years.)
- 20.413 LANGUAGE IN AMERICAN SOCIETY** **3 semester hours**
 A review of social, political, and philosophical perspectives on the historical development and current status of English and other languages in American society.
Prerequisite: 60 credits completed.
(Offered spring only)

- 20.440 INDEPENDENT STUDY IN ENGLISH** 3 or 6 semester hours
Prerequisite: 60 credits completed. (See Section 7.5)
- 20.482 MILTON** 3 semester hours
 The poetry and prose of John Milton.
- 20.488,489,490 SEMINAR** 3 semester hours
 Independent study with an opportunity to explore a literary subject not offered in regularly scheduled courses. Content, determined by the instructor, varies each time the course is offered.
Prerequisite: 60 credits completed. Open to non-majors. (Offered fall only.)
- 20.491 HONORS SEMINAR** 3 semester hours
 Independent study of a literary topic, approved in prior consultation with the instructor, derived 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 semester hours
 Examination of major critics from Aristotle to the present, emphasizing the application of critical principles to primary genres — drama, poetry, novel.
Prerequisite: 60 credits completed.
- 20.493 BIBLIOGRAPHY AND LITERARY RESEARCH** 3 semester hours
 Methods of literary scholarship, and study of book production with practice in preparing specialized bibliographies and in planning scholarly projects.
Prerequisite: 60 credits completed. (Offered fall only.)
- 20.494 RHETORIC OF LITERATURE** 3 semester hours
 A systematic study of the major rhetorical devices used by writers in the various literary genres: the nature and range of rhetorical designs from the shortest communications to the whole composition; 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.
Prerequisite: 60 credits completed.
- 20.497 INTERNSHIP** 3-6 semester hours
 A work-study program. Not applicable toward requirements of English major and minor programs.
Prerequisite: 60 credits completed. Open to English majors and others by departmental permission.



GEOGRAPHY AND EARTH SCIENCE

FACULTY

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

GEOGRAPHY

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

Option I. 41.101, 102; 24 semester hours in courses with code number 41.

Option II. (Emphasis on Urban and Regional Planning): 21 semester hours required in Planning including 41.150, 41.350, 41.497, and 41.498.

15 semester hours from 41.101, 221, 258, 302, 310, 363, 51.105;

19 semester hours from 09.231, 25.103, 41.242, 41.264, 53.141, 53.175;

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

6 semester hours 44.101, 452;

3 semester hours from 45.211, 213, 316, 457, 468.

Option III. (Emphasis on Environmental Planning): 30 semester hours required in planning including 41.150, 258, 301, 302, 497, 498, 44.452;

6 semester hours from 41.101, 105, 125, 310, 51.105;

15 semester hours from 09.231, 25.103, 53.141, 175, 41.242, 264;

6 semester hours from 40.415, 50.351, 353, 455, 51.370, 54.105.

EARTH SCIENCE

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

Earth Science. 51.101,102, 111, 112, 253, 255, 259; plus 3 additional courses elected from 51.105, 355, 361, 362, 365, 369, 370, 453, 461, 462, 468, 470, 475, and approved courses offered by the Marine Science Consortium; Mathematics 53.175, plus 2 courses selected from 53.112, 113, 123, 125, 126, 141, 271; Chemistry 52.111, 112, 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 Sciences Major for the B.S. degree:

Earth Science 51.101, 102, 111, 112, 361, 362, 365, 369, 370, or 470, 468, 493; Mathematics 53.175, 141, 123 or 53.125, 126, 175; Chemistry 52.111, 112,113; Physics 54.111, 112 or 54.211, 212.

Minor in Geography: 18 credits

Hours including 41.105, 258, 301, 302,

COURSE DESCRIPTIONS

GEOGRAPHY

(Code 41)

41.101 WORLD PHYSICAL GEOGRAPHY **3 semester hours**

Studies 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 semester hours**

Demonstrates the relationship of man, land, culture, and economics activities.

- 41.105 ENVIRONMENTAL ISSUES AND CHOICES** **3 semester hours**
 Examines contemporary environmental resource issues with a values, ethics, and decision-making framework.
- 41.125 WEATHER AND CLIMATE** **3 semester hours**
 Studies the interrelationships between the elements of weather and climate; the functional application of these elements is elaborated upon through a study of climatic realms.
- 41.150 ELEMENTS OF PLANNING** **3 semester hours**
 Acquaints students with the philosophy of planning, the roles of the planner, and planning objectives.
- 41.200 GEOGRAPHY OF UNITED STATES AND CANADA** **3 semester hours**
 Presents a spatial analysis of the United States and Canada emphasizing such concepts as environmental perception and sequent occupation; considers salient problems within geographic regions in terms of genesis and potential for solution.
- 41.201 GEOGRAPHY OF EUROPE** **3 semester hours**
 Studies Europe's physical characteristics, topography, transportation systems, resources, population, and trade.
- 41.202 GEOGRAPHY OF LATIN AMERICA** **3 semester hours**
 Examines Latin America as a major geographic region in terms of those economic, racial, and cultural forms that have provided regional unity and diversity.
- 41.221 ECONOMIC GEOGRAPHY** **3 semester hours**
 Reviews major economic activities; focuses on significant characteristics, location theory, and spatial patterns.
- 41.242 MAP SKILLS** **3 semester hours**
 Uses a variety of published maps for interpreting and interrelating past and present physical and cultural phenomena with a view, also, toward the future.
- 41.253 LANDFORMS** **3 semester hours**
 Studies dynamic, tectonic, and gradational forces, which in conjunction with climate and biologic forces, have shaped the earth into its present form and continuously refashion and modify it.
- 41.256 CLIMATOLOGY** **3 semester hours**
 Analyzes climate (temperature, moisture, pressure, wind, air masses, and storms) and the world-wide distribution of climates.
- 41.258 ENVIRONMENTAL CONSERVATION** **3 semester hours**
 Identifies resource management and environmental problems and offers possible alternative solutions for these problems.
- 41.264 APPLIED CARTOGRAPHY** **3 semester hours**
 Fundamental principles, use of graphic media, methods of construction, use and interpretation of maps, models, charts, diagrams, etc., utilized in geography and in urban and regional planning.
- 41.281-289 SPECIAL TOPICS IN GEOGRAPHY** **3 semester hours**
 Present areas of geographic interest to a general audience.
- 41.301 WATER RESOURCES MANAGEMENT** **3 semester hours**
 An examination of contemporary water resource issues related to environmental planning and management.
- 41.302 LAND RESOURCES MANAGEMENT** **3 semester hours**
 An examination of selected land related issues and problems with the objective of identifying appropriate management techniques.
- 41.310 POPULATION GEOGRAPHY** **3 semester hours**
 Presents a quantitative analysis of demographic data and qualitative examination of population characteristics.
- 41.313 POLITICAL GEOGRAPHY** **3 semester hours**
 Analyzes physical, human, and economic factors which influence the changing pattern of the political map of the world.

- 41.350 ADVANCED PLANNING** 3 semester hours
Presents the development of the skills and techniques used in analyses, goal setting, plan preparation, and implementation of urban and regional planning processes and activities.
- 41.363 URBAN GEOGRAPHY** 3 semester hours
Provides a conceptual and methodological framework in which to view the process of urbanization.
- 41.370 RURAL SETTLEMENT AND LAND USE** 3 semester hours
Investigates the major pattern of rural settlement and land use and the processes involved in explaining the changing American rural landscape.
- 41.475 INDEPENDENT STUDY IN GEOGRAPHY** 1-3 semester hours
Provides independent, investigative research oriented to studies of specific geographical problems.
Prerequisite: for junior and senior geography majors.
- 41.497 INTERNSHIP IN PLANNING** 12 semester hours
Involves the placement of a student who is enrolled in the course of study in Urban/Regional Planning or environmental 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 PLANNING SEMINAR** 3 semester hours
Provides an opportunity for reporting and analyzing experiences in internship. Integrates and utilizes practice in the development of land use from an urban or environmental perspective. Taken in coordination with the internship in urban/regional planning.

EARTH SCIENCE AND GEOLOGY

(Code 51)

- 51.100 FIELD APPLICATIONS OF EARTH SCIENCE** 3 semester hours
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 semester hours
Studies the landscape in relation to the structure of the earth's crust; agents at work to change landforms; classification and interpretation of rocks. (1-credit optional lab.)
- 51.102 HISTORICAL GEOLOGY** 3 semester hours
Examines earth history as interpreted from rock and fossil evidence, with emphasis on continuous evolution of the earth and life on it. (1 credit optional lab).
(Offered spring only)
- 51.105 ENVIRONMENTAL GEOLOGY** 3 semester hours
Applies geologic principles to the environment. Emphasizes earth processes influencing man, engineering properties of rocks and soils, and the environmental implication of earth resources.
- 51.111 PHYSICAL GEOLOGY LABORATORY** 1 semester hour
Presents an introduction to the practice of fundamental geology laboratory techniques, including qualitative and quantitative analysis. Two hours laboratory/week. (It is recommended that it be taken concurrently with 51.101).
- 51.112 HISTORICAL GEOLOGY LABORATORY** 1 semester hour
Provides an interpretation of earth history through the identification and evolution of the rock and fossil record and through the interpretation of geologic maps. 2 laboratory hrs./ week. (It is recommended that it be taken concurrently with 51.102.)
- 51.173 INTRODUCTORY ENGINEERING GRAPHICS** 1 semester hour
An introduction to the fundamentals of standard graphical practices including the theory of multiview and isometric projection, auxiliaries, sections, and standard dimensioning procedures. (Two hours Lecture/Laboratory/Week).
(Offered fall only).
- 51.174 ENGINEERING DESIGN GRAPHICS** 1 semester hour
Applies concepts and techniques acquired in Introduction to Engineering Graphics to the solution and analysis of engineering problems and in engineering design. Required for all students enrolled in Bloomsburg's pre-engineering program. (Two hours Lecture/Laboratory/Week).
(Offered spring only).

- 51.253 ASTRONOMY** **3 semester hours**
Reviews 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 semester hours**
Studies the atmosphere, and laws and underlying principles of atmospheric changes.
- 51.259 OCEANOGRAPHY** **3 semester hours**
Provides an introduction to the geologic, chemical and physical aspects of the ocean basins. Emphasizes ocean basin structure, topographic features, wave motion, current circulation, and methods of investigation. One weekend field trip is encouraged.
- 51.355 SYNOPTIC METEOROLOGY** **3 semester hours**
Presents observation and analysis of data for understanding and predicting the complexities of the atmosphere.
Prerequisite: 51.255 or consent of instructor. *(Offered spring only.)*
- 51.361 MINERALOGY** **4 semester hours**
Reviews the origin, occurrence, and identifying characteristics of common minerals. Stresses both megascopic and microscopic techniques. 3 hours class and 2 hours laboratory/week.
(Offered fall only.)
- 51.362 PETROLOGY** **4 semester hours**
Presents 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. *(Offered spring only)*
- 51.365 GEOMORPHOLOGY** **4 semester hours**
Studies 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.
(Offered fall only.)
- 51.369 STRUCTURAL GEOLOGY** **4 semester hours**
Analyzes 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.
(Offered spring only)
- 51.370 HYDROLOGY** **3 semester hours**
Introduces students to the principles and techniques of hydrology. Stresses the practical aspects of hydrology and includes appreciable amounts of time in the field. 2 class and 2 hours laboratory/week.
(Offered spring only)
- 51.451 FIELD TECHNIQUES IN EARTH SCIENCE** **6 semester hours**
Provides 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. (Offered summers only.)
- 51.453 PROGRAMMING AND OPERATION OF THE PLANETARIUM** **3 semester hours**
Provides 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 semester hours**
Studies both metallic and nonmetallic mineral deposits. Emphasizes the origin of deposits, exploration, and exploitation methods used, and environmental problems encountered.
Prerequisite: Mineralogy, 51.361 or consent of instructor.
- 51.462 FUNDAMENTALS OF PETROLEUM GEOLOGY** **3 semester hours**
Presents an introduction to petroleum; its properties, origin, accumulation, exploration and exploitation.
- 51.468 STRATIGRAPHY AND SEDIMENTATION** **4 semester hours**
Studies 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.
(Offered fall only.)

51.470 GROUNDWATER HYDROLOGY**3 semester hours**

Presents groundwater flow theory, well hydraulics, groundwater exploration techniques, the development of groundwater supplies, and the prevention and correction of groundwater pollution. 2 hours lecture and 2 hours laboratory/ week.

51.475 INDEPENDENT STUDY IN EARTH SCIENCE**1-3 semester hours**

Provides for 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 semester hours**

Provides for library and/or field research in geology.

Prerequisite: 51.361, 362, 468 or consent of instructor.

51.496 INTERNSHIP IN EARTH SCIENCE**3-15 semester hours**

Provides for 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.

COURSES CURRENTLY APPROVED

(Code 55)

Note: For course descriptions and credit see announcements of Marine Science Consortium;

- 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, Charles Chronister, Joanne E. McComb, Eli 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; Instructors Steve Goodwin, Sharon O'Keefe, Carl Poff.

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 in the areas of fitness, recreation and survival.

There is no major degree program in Health, Physical Education; an area of concentration is provided in Elementary Education. The HPEA Department cooperates in several career concentrations including Community Recreation Leader and Outdoor Leadership and Program Administration.

Students over 29 years of age must have medical clearance before taking vigorous physical activity courses.

COURSE DESCRIPTIONS

HEALTH, PHYSICAL EDUCATION AND ATHLETICS

(Code 05)

05.149 AQUATICS (For non-swimmers)	1 semester hour
Provides opportunity to make the proper physical and mental adjustment to water. Introduces 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 semester hour
Same content as 05.149 but adapted to beginning skills.	
05.151 AQUATICS (Intermediate)	1 semester hour
Reviews basic skills; introduces advanced skills and swimming strokes with emphasis on form and efficiency; elementary rescue and aquatic games.	
05.155 SWIMNASTICS	1 semester hour
05.160 HEALTH AND THE NATURE OF MAN	3 semester hours
Outlines the specific health needs of college students and the world in which they will live.	
05.200 CPR AND SAFETY	1 semester hour
05.214 FENCING	1 semester hour
05.217 BICYCLING	1 semester hour
A standard introductory course for novice bicycle aspirants who have access to a variable speed bicycle. Local touring will be undertaken as part of the course. Local bicycle rentals are available.	
05.219 TENNIS	1 semester hour
05.222 CREATIVE DANCE	1 semester hour
05.223 MODERN DANCE	1 semester hour
05.224 FITNESS DANCE	1 semester hour
Attempts to provide a method of cardiovascular endurance in a particular interest area.	
05.228 GYMNASTICS	1 semester hour
05.230 WEIGHT TRAINING AND FITNESS	1 semester hour
05.231 ARCHERY	1 semester hour

05.232	BOWLING (fee required)	1 semester hour
05.233	BADMINTON	1 semester hour
05.234	GOLF (fee may be required)	1 semester hour
05.235	RIFLERY	1 semester hour
05.236	VOLLEYBALL	1 semester hour
05.237	MODIFIED PHYSICAL EDUCATION (for approved students only)	1 semester hour
05.238	RACQUETBALL-HANDBALL	1 semester hour
05.239	SQUARE DANCE	1 semester hour
05.240	SLIMNASTICS AND FITNESS	1 semester hour
05.241	JUDO-SELF DEFENSE	1 semester hour
05.242	PHYSIOLOGICAL AND MEDICAL ASPECTS OF ATHLETIC COACHING	3 semester hours
	Presents basic anatomical and physiological factors affecting movement, endurance, strength, and conditioning in sports; studies equipment, training, care of injuries, safety problems, and medical research relating to athletics.	
05.243	BACKPACKING	1 semester hour
05.244	ORIENTEERING	1 semester hour
05.245	CANOEING	1 semester hour
05.246	BEGINNING SKIN AND SCUBA DIVING	1 semester hour
05.247	ROCK CLIMBING	1 semester hour
	Provides actual rock climbing experiences for the beginning rock climbing enthusiast. Introduces basic knowledge, skills, and practical application of climbing. Serves as a foundation for further experiences in this area of recreation.	
05.248	BASIC SAILING	1 semester hour
05.249	SYNCHRONIZED SWIMMING	1 semester hour
	Provides students with a basic background in the fundamental skills, strokes, and movement progressions involved in developing a basic routine.	
05.250	ADVANCED LIFE SAVING	2 semester hours
	Provides an opportunity to attain an American Red Cross Advanced Life Saving Certificate.	
05.251	TECHNIQUES OF COACHING AND OFFICIATING BASEBALL	3 semester hours
05.252	TECHNIQUES OF COACHING AND OFFICIATING BASKETBALL	3 semester hours
05.253	TECHNIQUES OF COACHING AND OFFICIATING FOOTBALL	3 semester hours
	Provides advanced instruction and practice in offensive and defensive fundamentals for each position; presents organizational methods, coaching principles, and officiating skills.	
05.256	TECHNIQUES OF COACHING AND OFFICIATING CROSS COUNTRY, TRACK AND FIELD	3 semester hours
05.256	TECHNIQUES OF COACHING AND OFFICIATING FIELD HOCKEY	3 semester hours
05.257	TECHNIQUES OF COACHING AND OFFICIATING WRESTLING	3 semester hours
05.260	TECHNIQUES OF COACHING AND OFFICIATING SWIMMING	3 semester hours
	Presents techniques of coaching, swimming, diving, and rule interpretations and duties of official.	

- 05.270 EXERCISE AND YOU (3 Contact Hrs.)** **2 semester hours**
 Studies appropriate physiological functions, exercise physiology, mechanical implications, and fitness measurement. Reviews procedures and practical application through programmed exercise.
- 05.271 INTERMEDIATE ARCHERY** **1 semester hour**
 Provides the opportunity for the student to develop shooting skills.
- 05.272 INTERMEDIATE BOWLING (fee required)** **1 semester hour**
 Attempts to develop advanced skill and knowledge of bowling.
- 05.273 INTERMEDIATE GOLF(fee may be required)** **1 semester hour**
 Provides instruction in the techniques and strategy involved in improving the individual skills of the student.
- 05.274 INTERMEDIATE TENNIS** **1 semester hour**
 Attempts to improve the tennis skills of each student.
- 05.275 INTERMEDIATE VOLLEYBALL** **1 semester hour**
 Studies the development and history of Volleyball. Attempts to improve fundamental skills, team play, and strategy through participation. An intermediate-level course.
- 05.276 INTERMEDIATE JUDO** **1 semester hour**
 Provides an opportunity to develop higher levels of skill competencies. Intended for students wishing to continue study in judo skills.
- 05.298 FITNESS AND WELLNESS** **1 semester hour**
 Provides learners with the tools for lifelong healthful living. Personal health profiles, mental health, personal fitness programs, stress management, nutritional and environmental health topics are explored. Successful completion of the course will fulfill one credit of the Physical Education requirement.
- 05.311 METHODS AND MATERIALS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION** **3 semester hours**
 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 semester hours**
 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 semester hours**
 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 RECREATION EDUCATION** **3 semester hours**
 Presents discussion of, and practice in, recreation activities used in school and playground situations. Emphasizes recreation planning, techniques of leadership, and worthy use of leisure time.
- 05.333 SCHOOL CAMPING AND OUTDOOR EDUCATION** **3 semester hours**
 Acquaints 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. Requires field experiences.
- 05.350 WATER SAFETY INSTRUCTOR** **2 semester hours**
 Reviews the nine basic swimming strokes and advanced life saving skills with an opportunity to analyze stroke mechanics, teaching methods and provisions. An American Red Cross Water Safety Instructor Certificate is awarded after satisfactory completion.
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 semester hours**
 Reviews the 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 semester hours

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

05.430 CURRENT ISSUES IN HEALTH EDUCATION

3 semester hours

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



HISTORY

FACULTY:

Professors Hans K. Gunther, Craig A. Newton, H. Benjamin Powell, Ralph Smiley, James R. Sperry, George A. Turner (Chairperson); Associate Professors Richard G. Anderson, Arthur Lysiak, Theodore Shanoski, Anthony J. Sylvester, 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 and to offer students variable choices 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

HISTORY

(Code 42)

Prerequisites are subject to modification by the instructor.

- 42.100 TRANS-ATLANTIC WORLD IN THE 20TH CENTURY** **3 semester hours**
 Represents an analysis comparing and contrasting the experiences of Americans and Western Europeans since 1918. Focuses upon the decay of western traditions, the dilemma of the individual in an increasingly complex society, and the rise of "technocratic" civilization. Provides insight into roots of current events, promotes sense of historic awareness beyond the national level and enhances appreciation of basic similarities and differences among Americans and Western Europeans.
- 42.112 ORIGINS OF THE MODERN WORLD** **3 semester hours**
 Describes the political, economic, social, intellectual military forces and events that shaped the story of mankind from the early Renaissance to the early nineteenth century.
- 42.113 THE MODERN WORLD** **3 semester hours**
 Reviews the 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 TO 1877** **3 semester hours**
 Presents a chronological history to 1877 with emphasis on foreign affairs and the evolution of political, economic, social and cultural aspects.

- 42.122 UNITED STATES HISTORY SURVEY:
1877 TO THE PRESENT** **3 semester hours**
Presents political, social, cultural, intellectual, economic and foreign affairs developments of the United States from Reconstruction to the present.
- 42.133 THE ANCIENT AND MEDIEVAL WORLDS** **3 semester hours**
Presents 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.
(Not offered every semester.)
- 42.208 CONTEMPORARY ISSUES IN UNITED STATES HISTORY** **3 semester hours**
Examines selected issue(s) of social, political or foreign affairs within a historical context, describing the origin, evolution, current significance and importance in American society. The issue(s) may vary each semester.
- 42.210 VALUES IN CONFLICT IN 20TH CENTURY HISTORY** **3 semester hours**
Select 20th century conflicts involving values of the individual and his civilization are presented and resolutions achieved are reviewed and evaluated. The selection of conflicts varies each semester.
- 42.222 GROWTH OF BUSINESS IN AMERICA** **3 semester hours**
Focuses on the evolution of business from 1776 to the present, major changes in the corporate management from 1850 to the present, and life in the managerial world in the post 1945 period.
(Offered fall only.)
- 42.223 ECONOMIC HISTORY OF THE UNITED STATES** **3 semester hours**
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 are required.
- 42.224 THE IMMIGRANT EXPERIENCE** **3 semester hours**
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 socio-historical framework of assimilation is used to describe separate eras of immigration.
(Not offered every semester.)
- 42.226 POPULAR CULTURE IN AMERICA** **3 semester hours**
A review of major forms of popular culture in America from colonial beginnings to the present, telescoped to permit the fullest presentation of the period since 1920. The course blends the continuity of values and ideas in American culture with the dynamics of change to which the culture constantly adjusts.
- 42.227 THE AMERICAN WOMAN:
ACCOMPLISHMENTS AND ASPIRATIONS** **3 semester hours**
Identifies the status, roles and achievements of American women from the colonial period to the present. Examines historical events or trends which elevated or diminished women's roles in American society. Discusses 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 women in American History.
(Not offered every semester.)
- 42.229 MODERN WORLD LEADERS** **3 semester hours**
Studies the significant world leaders in religion, politics, war and culture and their impact upon world history. Focuses on different leaders each time offered and covers a selected period from the Renaissance to the present. Analyzes the conditions which helped produce these leaders and will end by discussing reasons for their success or failure. Includes only leaders who have made a significant contribution outside their national boundaries.

- 42.235 EMERGENCE OF SOCIAL WELFARE, 1600-1935** **3 semester hours**
 Analyzes, utilizing a comparative approach, the relationship of social attitudes to welfare practices in the United States and in Western Europe from the seventeenth century to 1935. Concentrates attention upon late nineteenth and early twentieth century developments. Provides perspectives on contemporary social welfare.
(Not offered every semester.)
- 42.246 MODERN EUROPEAN THOUGHT AND SOCIETY** **3 semester hours**
 Relates changes in currents of thought during the period to political, economic and social developments. Special attention given to interpretations of major intellectual movements.
(Not offered every semester.)
- 42.255 HEALTH ISSUES AND HEALTH PROFESSIONALS IN HISTORY** **3 semester hours**
 Delineates major issues and personalities in the rise of modern health care as well as ideas and attitudes prevalent in the histories of the health professions. Compares and contrasts American, Canadian and Western European health services. Explains the relevance of cultural values for the theory and organization of health care.
(Not offered every semester.)
- 42.260 SPORT AND SOCIETY IN AMERICA** **3 semester hours**
 Presents 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. Emphasizes the rise of the institution of sport and its impact on business, commercialism, leisure, affluence, urbanism, nationalism and the problems of governance and law.
(Not offered every semester.)
- 42.275 HISTORY OF CHRISTIANITY TO 1500 (I)** **3 semester hours**
 Presents a survey course pursuing the major features of Christianity to the eve of the Reformation. Emphasizes institutional and doctrinal developments, focusing mainly on Western European Christianity. Concentrates on some of the great figures in Christian history, including those of the Medieval Papacy, ending with the Pre-Reformers and the Renaissance Papacy at 1500.
(Not offered every semester.)
- 42.276 HISTORY OF CHRISTIANITY SINCE 1500 (II)** **3 semester hours**
 Presents a survey, beginning with the Protestant and Catholic Reformation, and covering the major movements in Western Christianity to the present. Presents a brief overview of American Christianity and 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.
(Not offered every semester.)
- 42.281 MILITARY HISTORY I** **3 semester hours**
 Studies organized warfare from its origins to the last campaign of Napoleon I, concentrating on strategy and tactics. Examines moral and social problems raised by warfare.
(Not offered every semester.)
- 42.282 MILITARY HISTORY II** **3 semester hours**
 Studies organized warfare and the theory of war from the Napoleonic age to the present, concentrating on strategy and tactics. Examines the socio-political background, especially of the two world wars and the age of guerrilla warfare.
(Not offered every semester.)
- 42.318 EARLY ENGLAND: THE MAKING OF AN ISLAND STATE** **3 semester hours**
 Reviews political, economic, social and cultural life in England to the Glorious Revolution.
(Not offered every semester.)
- 42.319 MODERN ENGLAND: THE FIRST INDUSTRIAL EMPIRE** **3 semester hours**
 Examines political, social, economic and cultural development 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.
(Not offered every semester.)

42.324 REVOLUTIONARY EUROPE AND THE RISE OF MODERN TRADITIONS, 1600-1789**3 semester hours**

Discusses the rise of the modern state; the 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; the diplomatic and military interaction of the European states.

*(Not offered every semester.)***42.326 EUROPE 1789-1914****3 semester hours**

Studies political and military events within their economic, social, intellectual, religious and artistic settings from the French Revolution through the Industrial Revolution. Examines the unification of Italy and Germany to the diplomatic crises that led to the first world war.

*(Not offered every semester.)***42.327 WORLD WAR I AND THE DICTATORS****3 semester hours**

The origins of World War I and the alliance systems that fought it, the diplomacy and military strategy and tactics of the war and the peace treaties of 1918-1920. The rise of Mussolini, Stalin, Hitler and the lesser dictators along with the international crises that finally culminated in the outbreak of World War II. The course stresses ideological and global patterns of which European events formed a part.

*(Not offered every semester.)***42.328 WORLD WAR II AND ITS AFTERMATH****3 semester hours**

Surveys the European powers in the late 1930s with emphasis on the forces leading to war; military and diplomatic developments of World War II and the causes of the East-West rift; the reconstruction of democratic Europe and formation of the Soviet block; European integration and political trends in both power systems.

*(Not offered every semester.)***42.347 HISTORY OF THE HOLOCAUST****3 semester hours**

Focuses upon the major theme - the genesis and implementation of the planned destruction of European Jewry from 1933 to 1945, after briefly tracing the history of antisemitism and evaluating scope of prejudice, discrimination and genocide in contemporary civilization. Includes an analysis of the literature of the Holocaust and evaluation of the impact of the Holocaust upon modern day Israel and the world Jewish community.

*(Not offered every semester.)***42.351 LATIN AMERICA: THE COLONIAL PERIOD****3 semester hours**

Reviews the extension of Iberian institutions to the New World and the acculturation process. Examines and evaluates the economic, social and religious institutions of Portuguese and Spanish America in the colonial period, 1492-1823.

*(Not offered every semester.)***42.352 LATIN AMERICA: THE NATIONAL PERIOD****3 semester hours**

Devotes attention to the economic, social and political development of individual nations after a brief summary of the course and results of the revolutionary era.

*(Not offered every semester.)***42.354 THE RISE OF MODERN CHINA TO MAO TSE-TUNG****3 semester hours**

Presents 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 economies. Pays special attention to the rise to power of Mao Tse-Tung and his policies.

*(Not offered every semester.)***42.356 RUSSIA TO THE BOLSHEVIK REVOLUTION****3 semester hours**

Provides a survey of Russia from the beginnings of the Russian State in the ninth century through the Kievan, Muscovite and Imperial periods to the Bolshevik Revolution of 1917.

*(Not offered every semester.)***42.358 BLACK AFRICA****3 semester hours**

Presents a survey of the transformation of the societies of Sub-Saharan Africa from colonialism to national independence.

*(Not offered every semester.)***42.362 THE ARAB WORLD****3 semester hours**

Provides an introductory look at the Middle East, Islamic society and religion, the Arab-Israeli problem and the politics of oil.

(Not offered every semester.)

- 42.372 COLONIAL AMERICA AND THE WAR OF INDEPENDENCE** **3 semester hours**
Reviews European colonization in North America, with major attention to the establishment and development of England's colonies, an emerging American society and the problems which created the conflict between the Americans and the British--resulting in the American War of Independence.
(Not offered every semester.)
- 42.373 THE UNITED STATES FROM NATIONHOOD TO CIVIL WAR** **3 semester hours**
Studies the forces contributing to nation building, democratization and reform in society, factors stimulating expansion, issues causing disunion and travail of the Civil War.
(Not offered every semester.)
- 42.375 THE UNITED STATES FROM THE CIVIL WAR TO WORLD POWER** **3 semester hours**
Reviews major topics such as the Civil War, Reconstruction, the Gilded Age, emergence of big business, social Darwinism, populism, progressivism and World War I.
(Not offered every semester.)
- 42.377 CONTEMPORARY UNITED STATES, WORLD WAR I TO THE PRESENT** **3 semester hours**
Discusses 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.
(Not offered every semester.)
- 42.388 PENNSYLVANIA** **3 semester hours**
Examines major contributions of Pennsylvania to national life, relations between state and national movement.
(Not offered every semester.)
- 42.391 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1898** **3 semester hours**
Presents a critical analysis of United States foreign relations from the colonial period to the 1898 war with Spain.
(Not offered every semester.)
- 42.392 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1898** **3 semester hours**
Presents a critical analysis of United States foreign relations from the war of Spain in 1898 to the present.
(Not offered every semester.)
- 42.397 INDEPENDENT STUDY IN HISTORY** **1-4 semester hours**
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 credits may not exceed four semester hours.
Prerequisite: 60 semester hours college credit. *(See Section 7.5.)*
- 42.398 RESEARCH AND WRITING SKILLS** **3 semester hours**
Focuses on the mechanics and processes of research, and on the development of creativity and writing style through composition of a brief formal paper.
(Not offered every semester.)
- 42.452 SOVIET RUSSIA** **3 semester hours**
Presents a critical analysis of the political, social, economic and cultural evolution of the Soviet Union and a study of Soviet foreign policy.
Prerequisite: 42.113. *(Not offered every semester.)*
- 42.453 PROBLEMS OF CONTEMPORARY LATIN AMERICA** **3 semester hours**
Analyzes 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 semester hours in history. *(Not offered every semester.)*

42.454 MODERN JAPAN: THE EMERGENCE OF AN ASIAN SUPERPOWER

3 semester hours

Analyzes 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.

(Not offered every semester.)

42.456 TWENTIETH CENTURY MIDDLE EAST AND NORTH AFRICA

3 semester hours

Provides intensive study of critical social, political and economic problems of the contemporary peoples and nations in these regions.

Prerequisite: 42.112 or 113.

(Not offered every semester.)

42.472 HISTORY OF LABOR IN THE UNITED STATES

3 semester hours

Surveys the emergence and development of organized labor from the post-Civil War period to the present. A third of the course is devoted to an analysis of contemporary labor-management problems and labor's changing role in our increasingly technological society.

Prerequisite: 3 semester hours in history.

(Not offered every semester.)

42.497 INTERNSHIP IN HISTORY

3-12 semester hours

Provides a work-study experience jointly administered by an academic faculty member and a sponsoring employer, with approximately 40 hours of supervised work generating each semester credit hour. Considered a "bridge" between the classroom and the professional world.

Prerequisite: For history majors, 15 semester hours of history, including 42.398. Other majors may enroll if they receive the consent of their faculty advisers.

(Note: A student may not apply more than three semester hours of internship toward the fulfillment of the history major, although he/she may enroll for more than three credits of 42.497.)



INTERDISCIPLINARY STUDIES

G. Alfred Forsyth, coordinator of Interdisciplinary Studies

Note: Inter-disciplinary courses listed in this section are planned and often staffed by members of more than one department. These courses cover content that spans two or more academic disciplines.

BROAD AREA PROGRAMS FOR THE BACHELOR OF ARTS AND 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 54 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 meet the 128 semester hour requirement for graduation. Students interested in a Broad Area Program should meet with the dean of arts and sciences.

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

English 363 Shakespeare	3 semester hours
English 302 Advanced Composition	3 semester hours
Speech 208 Introduction to Theatre Arts.....	3 semester hours
Speech 321 Argumentation.....	3 semester hours
Philosophy 211 Introduction to Philosophy	3 semester hours
Philosophy 302 Logic.....	3 semester hours
Art History elective	3 semester hours
Music History elective.....	3 semester hours
History: any two 3-hour courses.....	6 semester hours
Languages and Cultures Option:.....	3 semester hours
Choose from	
1 semester of Intermediate Foreign Languages	
1 semester of foreign literature course (in original or translation)	
1 semester of foreign culture and civilization	
Total Core.....	33 semester hours
Humanities electives	15 semester hours
Total Broad Area Humanities requirements.....	48 semester hours

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

Economics 211-212 Principles of Economics I-II	6 semester hours
Geography: any two 3-hour courses	6 semester hours
Political Science 101 Elements of Political Science and one political science elective	6 semester hours
Sociology 211 Principles of Sociology and one Sociology elective.....	6 semester hours
Anthropology 100 General Anthropology, or Anthropology 200, Principles of Cultural Anthropology	3 semester hours
Psychology 101 General Psychology and one Psychology elective	6 semester hours
Total Core.....	33 semester hours
Social Science electives	15 semester hours

Total Broad Area Social Science requirements 48 semester hours

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

*Mathematics 125-126 (Analysis I-II)	6 semester hours
Mathematics 175 Intro. to Computer Science	3 semester hours
**Physics 111-112 Introduction to Physics I-II or 211-212 General Physics I-II.....	8 semester hours
Biology 210 General Zoology	4 semester hours
Biology 220 General Botany	4 semester hours
Chemistry 111 and 112 General Chemistry I and II	4 semester hours
Chemistry 113 Chemistry Laboratory	2 semester hours
Earth Science 101 Physical Geology	4 semester hours
Earth Science 102 Historical Geology.....	4 semester hours
Total Core.....	37 semester hours
Approved electives to complete Broad Area requirements:****	11 semester hours
Total Broad Area Natural Science/Mathematics requirements:	50 semester hours

- * Subject to the discretion of the mathematics and computer science department and the adviser, the student will take Math 113 and Pre-Calculus before Math. 125.
- ** Subject to the discretion of the course instructor and the adviser considering that Physics 211 requires a knowledge of Calculus but is a requirement for certain advanced courses in Physics and Chemistry.
- *** 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 adviser for the students in this program.

COURSE DESCRIPTIONS

INTERDISCIPLINARY STUDIES

(Code 09)

09.111 INTRODUCTION TO THE PEOPLES OF THE THIRD WORLD 3 semester hours

Examines 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.

09.200 AN INTERDISCIPLINARY APPROACH TO AQUATIC ENVIRONMENT 3 semester hours

The disciplines of chemistry, biology, earth science and mathematics will be integrated to study aquatic environments. Special emphasis will be given to field and laboratory work in aquatic entomology and environmental chemistry.

09.211 HISTORY OF NATURAL SCIENTIFIC THOUGHT 3 semester hours

Reviews the 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 semester hours

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

09.231 TECHNICAL WRITING 3 semester hours

Presents the principles of technical writing in the physical, natural, and social sciences and in technology and industry. Promotes effectiveness in communicating technical information to both specialized and general audiences. Utilizes seminar approach involving class participation and individualized instruction.

- 09.250 FRENCH HISTORY AND CULTURE I** **3 semester hours**
Emphasizes the social, cultural, economic and political contributions of France to the shaping of Western civilization from its gallo-Roman beginnings to the present.
- 09.251 FRENCH HISTORY AND CULTURE II** **3 semester hours.**
Discusses the transformation of France from the old regime into a modern nation; the interaction between social, cultural, economic and political life in France and its importance in Western civilization.
- 09.311 SEMINAR IN AMERICAN STUDIES, PART I** **3 semester hours**
Designed to give the student a thorough appreciation of our varied heritage and research materials and resources available for deepening the knowledge of this growing area of inquiry. To be required of all majors in proposed baccalaureate program in American Studies, but open to all juniors in the Arts and Sciences College.
- 09.312 SEMINAR IN AMERICAN STUDIES, PART II** **3 semester hours**
Continues the endeavor to convey a thorough appreciation of the varied American heritage and the research materials and resources available for deepening the knowledge of this growing area of inquiry. To be required of all junior-level majors in the baccalaureate program in American studies.
- 09.401 HISTORY AND POLITICS OF USSR** **3 semester hours**
Combines the study of the history of the USSR with the approaches of political science. Primarily offered in the summer. Involves students in a tour of areas of the USSR.
- 09.431 SOCIALISM: THEORY AND HISTORY** **3 semester hours**
Provides a historical and theoretical study of the socialist idea and its various attempted realizations from biblical times to the present.
- 09.491 HONORS INDEPENDENT STUDY IN THE HUMANITIES I** **1-3 semester hours**
An independent study course in which, under the guidance of his/her faculty mentor, the student will do the initial project(s) appropriate to the first stage of his/her proposed honors work.
- 09.492 HONORS SEMINAR IN THE HUMANITIES** **3 semester hours**
The honors seminar is the second of three steps in the Arts and Sciences Honors Program. This course will allow for continued in-depth study of a particular research project of the student's choice while also providing honor students the opportunity to discuss with their peers and interested faculty concepts in the humanities which relate to the research project and to the student's major field. Seminars will be organized around general themes selected by the humanities honors committee and will be announced in advance.
- 09.493 INDEPENDENT STUDY IN THE HUMANITIES II** **1-3 semester hours.**
The final course in the Arts and Sciences Honors Program, humanities sequence. Independent study in an area previously approved as part of the student's overall honors program.
- 09.495 HONORS SEMINAR IN THE NATURAL SCIENCES & MATHEMATICS** **1 semester hour.**
Offers a cross-disciplinary perspective to students in the honors program, with an emphasis on student presentation and discussion of important topics in the student's area of expertise.
- 09.496 HONORS INDEPENDENT STUDY IN THE SOCIAL SCIENCES I** **1-3 semester hours**
This independent study course is the first of three steps in the Arts & Sciences Honors Program. It involves the student's selection of an honors adviser and project, the initial exploratory reading, and proposal for a major Honors Independent Study Project. This Honors Independent Study is similar to current independent study programs, but is reserved specifically for those who qualify for and wish to pursue an honors course of study in their last two years. This course is normally taken in the first or second semester of the junior year.
- 09.497 HONORS SEMINAR IN THE SOCIAL SCIENCES** **3 semester hours**
The honors seminar is the second of three steps in the Arts & Sciences Honors Program. This course will allow for continued in-depth study of a particular research project while allowing honor students the opportunity to discuss with their peers and interested faculty concepts in the social sciences which relate to the research project and the student's major field. The focus of the seminar is interdisciplinary.

09.498 HONORS INDEPENDENT STUDY IN THE SECOND SCIENCES II 3 semester hours

This independent study course is the last of three steps in the Arts & Sciences Honors Program. This independent study will be used to follow research leads suggested in the honors seminar and to conduct further research leading to a finished body of work.

38.498 HUMANITIES INTERNSHIP 1-9 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply the theoretical and descriptive knowledge acquired in multiple humanities disciplines to the operations of the work setting. Must have approval of the university internship coordinator and dean of arts and sciences.

47.498 SOCIAL SCIENCES INTERNSHIP 1-9 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply the theoretical and descriptive knowledge acquired in multiple social sciences disciplines to operations of the work setting. Must have approval of the university internship coordinator and dean of arts and sciences.

59.498 NATURAL SCIENCES AND MATHEMATICS INTERNSHIP 1-9 semester hours

Provides for an on-site work experience and training program designed to give selected interns an opportunity to apply the theoretical and descriptive knowledge acquired in multiple natural sciences and mathematics disciplines to operations of the work setting. Requires approval of the university internship coordinator and dean of arts and sciences.



LANGUAGES AND CULTURES

FACULTY:

Professors Ariane Foureman, Allen F. Murphy; Associate Professors Blaise C. Delnis, George W. Neel, Christine T. Whitmer (Chairperson); Assistant Professors Ben C. Alter, Jorge A. Topete.

Placement in the appropriate area of study:

Students who have studied a language elsewhere should consult the department chairperson for appropriate placement. Generally, the student should schedule courses as follows:

- With no previous study, schedule special sections of FL 101 for beginners;
- With one year of high school or equivalent, schedule FL 101;
- With two years of high school, or equivalent, schedule FL 102;
- With three years of high school, or equivalent, schedule FL 103;
- With four years of high school, or equivalent, schedule FL 104.

Language Laboratory

Weekly laboratory sessions are recommended in courses numbered 101 to 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. An exchange program with the "Institut Commercial de Nancy" of the University of Nancy in France, is available to French/business majors or to business majors with a strong concentration in French. A summer study/tour in France in conjunction with the Department of Art is also available. Trips of 1-3 weeks in length may be made to various Spanish-speaking countries. In addition, 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.

French and Spanish Majors and/or Minors

Majors are offered in French and Spanish. A major for the B.A. degree requires a minimum of 30 semester hours in the language in courses beyond 101 and 102. If a student is exempt from any required courses, he or she takes additional advanced electives as substitutes.

A minor is available in French and Spanish. Students should consult the chairperson.

It is recommended that students who major and/or minor in French or Spanish also elect courses in related fields such as a second foreign language, English, fine arts, history, philosophy, sociology, speech and/or 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 and Early Education Area of Concentration

Students in elementary and early education may elect an area of concentration in French, German, or Spanish. It is recommended that such students consult their advisers in the Department of Languages and Cultures concerning particular courses to take. It is recommended that courses in culture and civilization, oral expression, non-developmental and phonetics be included within those courses chosen to complete the area of concentration. 101 and 102 courses may also be counted within the required 18 hours.

Language Awards

The Department grants two types of awards to students:

1. **Outstanding Academic Achievement**--awarded to any graduating senior who:
 - a) has a minimum of 3.7 average in all courses in the major language; a student majoring in French and Spanish may be considered for an award in each language;
 - b) has a cumulative average in all work at the university of no less than 3.2;
 - c) is recommended unanimously by the faculty of the major language;
2. **Certificate of Language proficiency**--awarded to any student not majoring in a language who:
 - a) completes a minimum of twelve (12) credit hours in one language from among the following courses:
 FRENCH 10.201, 202, 203, 204 (if taken after 104), 205, 231, 301, 302, 305, 310, 322, 401, 421, GERMAN 11.201, 202, 204, (if taken after 104), 403; SPANISH 12.201, 202, 203, 204 (if taken after 104), 205, 230, 301, 302, 321, 322, 330, 421, 422, 423
 - b) has received no less than a grade of B in each course taken in the language;
 - c) has taken courses with more than one instructor of the language.

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

FRENCH (Code 10)

- | | |
|--|--------------------------|
| 10.101 FRENCH I | 4 semester hours |
| Seeks to develop the four language skills and acquaint students with elements of French culture. Weekly lab sessions recommended. For students with no more than two years of previous study in French. Students without background or a year or more of study in French are assigned to special sections. | |
| 10.102 FRENCH II | 4 semester hours |
| Continuation of 10.101. Weekly lab sessions recommended.
<i>Prerequisite: 10.101 or equivalent.</i> | |
| 10.103 FRENCH III | 3 semester hours |
| Continuation of development of the four language skills. Review of structure patterns. Weekly lab sessions recommended.
<i>Prerequisite: 10.102 or equivalent.</i> | |
| 10.104 FRENCH IV | 3 semester hours |
| Continuation of French 10.103.
<i>Prerequisite: 10.103 or equivalent.</i> | |
| 10.109 PHONETICS: SOUNDS OF THE FRENCH LANGUAGE | 3 semester hours |
| Analyzes French sound system through drills on pronunciation and intonation. Selections of prose, poetry and songs for imitation.
<i>Prerequisite: 10.102 or equivalent.</i> <i>(Offered fall only.)</i> | |
| 10.121 FRENCH LITERATURE IN ENGLISH TRANSLATION I | 3 semester hours. |
| Provides reading, analysis and discussion of major French works in translation, beginning with the <i>Song of Roland</i> and continuing with authors such as Rabelais, Pascal, Moliere, Voltaire, Rousseau, Diderot and others.
<i>Does not count toward a major in French.</i> <i>(Offered every other spring).</i> | |

- 10.122 FRENCH LITERATURE IN ENGLISH TRANSLATION II** 3 semester hours
Provides 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. (Offered every other fall).
- 10.201 STRUCTURE OF THE FRENCH LANGUAGE** 3 semester hours
Presents a thorough study of grammar, syntax and use of idioms through applied exercises.
Prerequisite: 10.104 or equivalent. (Offered fall only.)
- 10.202 ORAL EXPRESSION I** 3 semester hours
Presents prepared and free speaking activities about everyday life.
Prerequisite: 10.104 or equivalent, or concurrently with 104 with permission of the chairperson. (Offered spring only.)
- 10.203 FRENCH WRITTEN EXPRESSION** 3 semester hours
Applies grammatical principles in written composition, essays and critical analyses.
Prerequisite: 10.201 or equivalent. (Offered spring only.)
- 10.204 FRENCH STUDIES ABROAD** 1-6 semester hours
Prerequisite: Minimum 2 semesters of French.
- 10.205 COMMERCIAL FRENCH** 3 semester hours
Acquisition of French business language and terminology in reading, writing and speaking. Introduction to business correspondence.
Prerequisite: 10.104 or equivalent. (Offered fall only.)
- 10.211 FOUNDATIONS OF FRENCH CULTURE AND CIVILIZATION** 3 semester hours
Reviews major developments of French culture from the historical point of view. Course taught in English. Special projects for French majors. No knowledge of French necessary.
(Offered fall only.)
- 10.212 FRANCE TODAY** 3 semester hours
Presents major aspects of life in France today. Course taught in English. Special projects for French majors. French knowledge unnecessary.
(Offered spring only.)
- 10.231 SELECTED READINGS** 3 semester hours
Studies French for reading knowledge; selected modern works.
Prerequisite: 10.104 or equivalent. (Offered fall only.)
- 10.281-289 SPECIAL TOPICS** 1-3 semester hours
Gives 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, Quebec culture and others.
(Offered every other spring).
- 10.295 ART AND CULTURE OF FRANCE** 3 semester hours
Provides 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.
Prerequisite: Consent of instructor.
- 10.301 STRUCTURE AND TRANSLATION** 3 semester hours
Studies structural patterns of French in comparison with English. Discusses problems of translation. Recommended for students planning a career in international affairs.
Prerequisite: 10.201. (Offered spring only.)
- 10.302 ORAL EXPRESSION II** 3 semester hours
Presents further development of language fluency through discussion of current topics and issues selected from French newspapers and magazines.
Prerequisite: 10.202 or equivalent. (Offered spring only.)
- 10.305 COMMERCIAL FRENCH II** 3 semester hours
Studies French business life; aiming at preparing students for eventual internships in a business firm in France and Quebec or in a branch of a French company in the USA. Business correspondence also reviewed.
Prerequisite: 10.205. (Offered spring only.)

- 10.310 FOLKLORE** **3 semester hours**
 Studies selected forms and writings such as proverbs, farces, fairy tales, songs, and French traditions.
Prerequisite: 10.201 *(Offered every other spring).*
- 10.322 FRENCH WRITERS AND PLAYWRIGHTS** **3 semester hours**
 Studies the most significant writers and playwrights of France.
Prerequisite: 10.201 *(Offered spring only).*
- 10.401 ADVANCED FRENCH LANGUAGE** **3 semester hours**
 Presents a thorough review of phonology, morphology, syntax and semantics.
Prerequisite: 10.301 or approval of the chairperson. *(Offered every other fall).*
- 10.421 SEMINAR IN MODERN FRENCH LITERATURE** **3 semester hours**
 Studies a particular genre, movement, period, work or major author. The topic is selected by the instructor during the semester preceding its offering, to fulfill the needs of prospective students. May be repeated once.
Prerequisite: any 300 level course. *(Offered every other fall).*
- 10.490 INDEPENDENT STUDY IN FRENCH** **1-9 semester hours**
 Provides for 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 of the chairperson. (See Section 7.5)
- GERMAN:**
(Code 11)
- 11.101 GERMAN I** **4 semester hours**
 Designed to develop the four language skills and to acquaint students with elements of German culture. Weekly laboratory sessions recommended. For students with no more than two years of study in German. Students without background or more than one year of study are assigned to special sections.
- 11.102 GERMAN II** **4 semester hours**
 Continuation of 11.101. Reading and writing given additional emphasis.
Prerequisite: 11.101 or equivalent.
- 11.103 GERMAN III** **3 semester hours**
 Basic grammar reviewed and new grammatical concepts presented.
Prerequisite: 11.102 or equivalent. *(Offered fall only.)*
- 11.104 GERMAN IV** **3 semester hours**
 Continuation of 11.103.
Prerequisite: 11.103 or equivalent. *(Offered spring only.)*
- 11.121 GERMAN AUTHORS OF THE TWENTIETH CENTURY I** **3 semester hours**
 Examines works of major German authors such as Hesse, Brecht, Mann, Kafka, Durrenmatt and Boll. Taught in English. No knowledge of German necessary.
(Offered fall only.)
- 11.122 GERMAN AUTHORS OF THE TWENTIETH CENTURY II** **3 semester hours**
 Continuation of 11.121. Taught in English. No knowledge of German necessary.
(Offered spring only.)
- 11.201 GRAMMAR AND COMPOSITION** **3 semester hours**
 In-depth study of German grammar. Stresses application of grammatical principles in controlled and free written composition.
Prerequisite: 11.104 or equivalent. *(Offered fall only.)*
- 11.202 CONVERSATION** **3 semester hours**
 Emphasizes student participation in prepared and free-speaking activities. Outside readings and oral reports assigned. Grammar reviewed when necessary.
Prerequisite: 11.104 or equivalent, or concurrently with 104 with permission from chairperson. *(Offered spring only.)*
- 11.204 GERMAN STUDIES ABROAD** **1-6 semester hours**
Prerequisite: Minimum 2 semesters of German.

11.211 GERMAN CULTURE AND CIVILIZATION I **3 semester hours**
 Provides an understanding of the geography, government, customs, education, arts and history of the German-speaking countries, as well as a vivid sense of the current scenes in these countries. Course taught in English. Knowledge of German not required.
(Offered fall only.)

11.212 GERMAN CULTURE AND CIVILIZATION II **3 semester hours**
 Continuation of 11.211. Course taught in English. Knowledge of German not required.
(Offered spring only.)

11.403 WORKSHOP **3 semester hours**
 Presents selected materials for practical use. Recommended for secondary education majors.
Prerequisite: 11.201 or 202. (Offered upon demand only.)

11.490 INDEPENDENT STUDY IN GERMAN **1-9 semester hours**
 Provides for 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 of the chairperson. (See Section 7.5)

SPANISH

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

Spanish: 12.103, 104, 201, 202, 203, 210 or 211, 230; Electives: nine semester hours to be selected among the 300 and/or 400 level courses.

SPANISH (Code 12)

12.101 SPANISH I **3 semester hours**
 Seeks to develop the four language skills and to acquaint students with elements of Hispanic culture. Weekly laboratory sessions recommended. For students with no more than two years of previous study in Spanish. Students without background or more than a year of Hispanic study are assigned to special sections.

12.102 SPANISH II **3 semester hours**
 Continuation of 12.101. Reading and writing given additional emphasis. Weekly laboratory sessions recommended.
Prerequisite: 12.101 or equivalent.

12.103 SPANISH III **3 semester hours**
 Places emphasis on use of language; grammar is reviewed as necessary.
Prerequisite: 12.102 or equivalent.

12.104 SPANISH IV **3 semester hours**
 Continuation of 12.103.
Prerequisite: 12.103 or equivalent.

12.109 PHONETICS **3 semester hours**
 Seeks to improve the student's ability to communicate effectively in spoken Spanish. Provides a detailed study of Spanish sound and intonation patterns through group and individual practice. Attends to individual pronunciation problems.
Prerequisite: 12.102 or equivalent. (Offered spring only.)

12.121 SPANISH LITERATURE IN ENGLISH TRANSLATION **3 semester hours**
 Designed to acquaint students with the literature of Spain as an expression of the culture of the people and to sensitize students to cultural values of the Spanish. Taught in English. No knowledge of Spanish not required. Not applicable toward a major in Spanish.
(Offered fall only.)

12.122 LATIN-AMERICAN LITERATURE IN ENGLISH TRANSLATION **3 semester hours**
 Designed to acquaint students with the literature of Latin America as an expression of the people and to sensitize students to cultural values of Latin Americans. Taught in English. Knowledge of Spanish not required. Not applicable toward a major in Spanish.
(Offered spring only.)

- 12.201 STRUCTURE OF THE SPANISH LANGUAGE** 3 semester hours.
Studies grammar and syntax and use of idioms through applied exercises.
Prerequisite: 12.104 or equivalent.
- 12.202 ORAL EXPRESSION** 3 semester hours
Emphasizes student participation in prepared and free speaking activities. Requires outside readings and oral reports.
Prerequisite: 12.201 or equivalent, or concurrently with 104 with permission of the chairperson.
- 12.203 WRITTEN EXPRESSION** 3 semester hours
Stresses application of grammatical principles in controlled and free written compositions. Seeks to improve the student's ability to communicate effectively in written Spanish.
Prerequisite: 12.201. (Offered spring only.)
- 12.204 SPANISH STUDIES ABROAD** 1-6 semester hours
Prerequisite: Minimum 2 semesters of Spanish.
- 12.205 COMMERCIAL SPANISH** 3 semester hours
Acquaints students with basic skills in Spanish trade correspondence and commercial reading. Emphasizes vocabulary and commercial idioms. Stresses elementary knowledge of commercial life and methods. For business students and others who desire to enhance their knowledge of Spanish.
Prerequisite: 12.102 or equivalent. (Offered fall only.)
- 12.206 BASIC CONVERSATION IN SPANISH FOR HEALTH PROFESSIONALS** 3 semester hours
Seeks to acquaint students with Spanish so that they will be able to communicate with Spanish-speaking patients in health-care settings. For students enrolled in health services.
Prerequisite: 12.104 or equivalent. (Offered spring only.)
- 12.211 SPANISH CULTURE AND CIVILIZATION** 3 semester hours
Provides an understanding of Spain through geography, education, customs, fine arts and history. Course taught in English. Knowledge of Spanish not required. Special projects for Spanish majors.
(Offered fall only.)
- 12.212 SPANISH AMERICAN CULTURE AND CIVILIZATION** 3 semester hours
Provides an understanding and appreciation of the present and past life of the Spanish-American Republics. Studies Aztec, Maya, Inca cultures. Uses films and outside readings to present material. Course taught in English. Knowledge of Spanish language not required. Special projects for Spanish majors.
(Offered spring only.)
- 12.230 INTRODUCTION TO THE STUDY OF LITERATURE** 3 semester hours
Analyzes selected poems, plays, novels and essays, basic concepts of genres, literary currents and schools.
Prerequisite: 12.103 or equivalent. (Offered fall only.)
- 12.231 SELECTED READINGS** 3 semester hours
Provides reading and discussion of selected modern works.
Prerequisite: 12.104 or equivalent. (Offered spring only.)
- 12.281-289 SPECIAL TOPICS** 1-3 semester hours
Attempts 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 Spanish for travelers, women in Spanish literature and others.
- 12.301 STRUCTURE AND TRANSLATION** 3 semester hours
Studies structural patterns of Spanish in comparison with English. Problems of translation.
Prerequisite: 12.201. (Offered spring only.)
- 12.302 ORAL EXPRESSION II** 3 semester hours
Provides for 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.
Prerequisite: 12.202 or equivalent. (Offered fall only.)

- 12.305 INTERMEDIATE COMMERCIAL SPANISH** **3 semester hours**
 Designed to extend students' practical skills in Hispanic business situations. For business students and others who desire to enhance their practical knowledge of Spanish.
Prerequisite: 12.205. *(Offered spring only.)*
- 12.321 SURVEY OF SPANISH LITERATURE** **3 semester hours**
 Studies outstanding authors from the beginning of Spanish literature to present day.
Prerequisite: 12.230. *(Offered fall 1987.)*
- 12.322 SURVEY OF SPANISH AMERICAN LITERATURE** **3 semester hours**
 Studies outstanding authors from Pre-Columbian times to present day.
Prerequisite: 12.230. *(Offered fall 1985.)*
- 12.330 SHORT STORY** **3 semester hours**
 Seeks to acquaint students with the short story as an expression of culture by Spanish, Spanish American, Chicano and Puerto Rican authors and to sensitize students to cultural values in the Hispanic world.
Prerequisite: 12.230 or permission of instructor. *(Offered fall 1986.)*
- 12.421 SEMINAR IN SPANISH LITERATURE** **3 semester hours**
 Studies 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. *(Offered spring 1985.)*
- 12.422 SEMINAR IN SPANISH AMERICAN LITERATURE** **3 semester hours**
 Studies 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: 12.322. *(Offered spring 1986.)*
- 12.490 INDEPENDENT STUDY IN SPANISH** **1-9 semester hours**
 Provides for 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 the chairperson. (See Section 7.5)

RUSSIAN
(Code 13)

- 13.101 RUSSIAN I** **4 semester hours**
 Seeks to develop the four language skills. Audio-lingual and structure of approach to acceptable pronunciation.
(Offered fall only.)
- 13.102 RUSSIAN II** **4 semester hours**
 Continuation of 13.101.
Prerequisite: 13.101 or equivalent. *(Offered spring only.)*
- 13.103 RUSSIAN III** **3 semester hours**
 Reviews grammar and syntax based on excerpts from noted Russian authors. Uses to a maximum the spoken language in the classroom.
Prerequisite: 13.102. *(Offered fall only.)*
- 13.104 RUSSIAN IV** **3 semester hours**
 Continues and reinforces the skills acquired in 13.103.
Prerequisite: 13.103 or equivalent. *(Offered spring only.)*
- 13.290 INDEPENDENT STUDY IN RUSSIAN** **1-9 semester hours**
 Provides for 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 the chairperson. (See Section 7.5)

ITALIAN
(Code 14)

- 14.101 ITALIAN I** **3 semester hours**
 Seeks to develop the four language skills. Stresses basic grammar. Weekly laboratory sessions recommended.
(Offered fall only.)

- 14.102 ITALIAN II** **3 semester hours**
 Continuation of 14.101. Emphasizes reading and writing. Weekly laboratory sessions recommended.
Prerequisite: 14.101 or equivalent. *(Offered spring only.)*
- 14.103 ITALIAN III** **3 semester hours**
 Reviews basic grammar and presents new grammatical concepts. Weekly laboratory sessions recommended.
Prerequisite: 14.102 or equivalent. *(Offered fall only.)*
- 14.104 ITALIAN IV** **3 semester hours**
 Continuation of 14.103.
Prerequisite: 14.103 or equivalent. *(Offered spring only.)*

GENERAL
(Code 16)

- 16.109 LANGUAGE FOR SINGING** **1 semester hour**
 Provides for practice and acquisition of correct pronunciation in French, German, and Italian for voice majors and students singing in choirs. Spanish upon demand.

LATIN
(Code 18)

- 18.101 LATIN I** **3 semester hours**
 Seeks to develop reading and writing with emphasis placed on correct classical pronunciation.
(Offered fall only.)
- 18.102 LATIN II** **3 semester hours**
 Continuation of 18.101. Seeks to develop skill in reading and translation and to teach student classical references through selected readings.
Prerequisite: 18.101 or equivalent. *(Offered spring only.)*
- 18.111 ROMAN CIVILIZATION** **1 semester hour**
 Provides an introduction to Roman institutions and life styles. Course taught in English.
(Offered every other fall.)
- 18.112 INTRODUCTION TO ROMAN LITERATURE** **1 semester hour**
 Presents an introduction to Roman literature and ideas. Course taught in English.
(Offered every other spring.)



MATHEMATICS AND COMPUTER SCIENCE

FACULTY:

Professors Harold J. Bailey, Stephen D. Beck, Charles M. Brennan (CIS Coordinator/Assistant Chairperson), JoAnne S. Growney, Paul G. Hartung, James Pomfret, June L. Trudnak; Associate Professors Leroy H. Brown, Tim Carroll, Paul C. Cochrane, J. Edward Kerlin, Jr. (Chairperson), Joseph E. Mueller, Ronald W. Novak, Clinton J. Oxenrider, Boris Reichstein, John H. Riley, Jr.; Assistant Professor Thomas L. Ohl.

MATHEMATICS:

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

Mathematics: 53.125, 126; 185; 211, 225, 226, 241; at least two 3-credit computer science courses at the 200-level or above, or, 53.177 and at least one 3-credit computer science course at the 200-level or above. At least four 3-credit mathematics courses at the 300-level or above. At least six credit hours in a discipline to which mathematics is traditionally applied (as approved by the adviser.) Total hours required for the B.A. are 45.

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

Mathematics: 53.125, 126; 185; 211, 225, 226, 241; 54.211, 54.212; at least two 3 credit computer science courses at the 200-level or above, or, 53.177 and at least one 3-credit computer science course at the 200-level or above. At least four 3-credit mathematics courses at the 300-level or above. Nine credit concentration in a special interest area within mathematics or in a related discipline; sample areas of concentration available upon request. The total hours required for the B.S. are 56.

Computer and Information Science

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

Required C.I.S.

Mathematics; 53.175, 177, 271;

Computer and Information Systems 92.256, 350, 351.

Required NON-C.I.S.

Public Speaking 25.103;

Accounting 91.220 or 221;

Economics 40.211; Mathematics select two of the following:

(1) either (53.118 and 123) or (53.125 and 126);

(1) and either 53.141 or 241. (The combination of 53.123 and 125 does not satisfy this requirement).

Specialized Requirements C.I.S.

Select at least 15 credit hours 9 of which are from the 53 area:

Mathematics 53.275, 370, 371, 372, 373, 374, 381, 471, 472.

Computer and Information Systems 92.252, 352, 354, 356, 358;

Specialized Requirements NON-C.I.S.

Select at least 15 credit hours, 9 of which are from either 52, 53, or 54 area:

Economics 40.212, any course 300 level or higher;

Chemistry 52.111, 112, 113, 122, any course 200 level or higher;

Mathematics 53.314, 225, 226, 322, 341, 361, 421, 422;

Physics 54.111, 112, 211, 212, any course 200 level or higher;

Finance and Law 90.331, 332, any Accounting or Management Course.

COURSE DESCRIPTIONS

MATHEMATICS AND COMPUTER SCIENCE (Code 53)

Note: Requirements for the major for the B.S. in education degree are given in Section 8.02.1.

- 53.101 FUNDAMENTALS OF MATHEMATICS** **3 semester hours**
Presents 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 and others who wish a non-traditional view of mathematics.
- 53.111 FINITE MATHEMATICS** **3 semester hours**
Presents an introductory development of counting techniques, probability spaces and game theory.
- 53.112 TRIGONOMETRY** **3 semester hours**
Studies natural trigonometric ratios and applications, extended to circular functions.
- 53.113 PRE-CALCULUS** **3 semester hours**
Examines elementary algebraic functions and relations; exponential and logarithmic functions; circular functions and inverse functions.
- 53.114 COLLEGE ALGEBRA** **3 semester hours**
Studies fundamental algebraic concepts and develops the mathematical and computational skills necessary to apply algebraic techniques to problems in business, economics, the social and natural sciences and liberal arts.
Prerequisite: 1 1/2 years of high school algebra or the equivalent.
- 53.118 APPLIED MATRIX ALGEBRA** **3 semester hours**
Introduces vectors, matrices, linear equations and linear programming with applications to the social and biological sciences and business.
- 53.123 ESSENTIALS OF CALCULUS** **3 semester hours**
Presents basic computational concepts of elementary calculus, differentiation and integration as used in non-physical science applications. Less rigorous than 125-126. Requires an adequate background in algebra. This course is not for mathematics, chemistry or physics majors.
- 53.124 ESSENTIALS OF CALCULUS II** **3 semester hours**
Techniques and applications of integration with an introduction to infinite series and elementary differential equations as a continuation of the material in 53.123. This course is not for mathematics, chemistry or physics majors.
Prerequisite: 53.123.
- 53.125 ANALYSIS I** **3 semester hours**
Studies differentiation and integration of functions of a single real variable including algebraic and circular functions.
- 53.126 ANALYSIS II** **3 semester hours**
Studies techniques of integration, transcendental functions, infinite series, Taylor's Theorem, some special differential equations and polar coordinates.
Prerequisite: 53.125.
- 53.141 INTRODUCTORY STATISTICS** **3 semester hours**
Requires reading, interpreting and constructing tables of statistical data; statistical measure; application of basic skills of statistics.
- 53.171 INTRODUCTION TO COMPUTER PROGRAMMING** **1 semester hour**
Provides an introduction to mathematically-oriented computer programming using the Fortran language with examples written and executed on the university computer.
- 53.175 INTRODUCTION TO COMPUTER SCIENCE** **3 semester hours**
Presents an introduction to computers and data processing; what they are, how they function, how they are controlled and how they are used in problem solving. Basic concepts include hardware, I/O systems, data communication and storage, flow charting, and programming in BASIC on a micro-computer.

53.177 PASCAL: AN INTRODUCTION TO STRUCTURED PROGRAMMING 3 semester hours

Introduces a language that has widespread application on micro-computers and mainframes. The organizational features make it an excellent instructional language through which the student develops good programming style and technique.

Prerequisite: 53.175 or equivalent.

53.185 DISCRETE MATHEMATICS 3 semester hours

An introduction to set theory, logic, combinatorics and graph theory for those interested in mathematics or computer science. Required for math majors.

Prerequisite: 3 years high school mathematics (2 years of algebra included) or 53.114.

53.201 THEORY OF ARITHMETIC 3 semester hours

Presents 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. Requires sophomore standing.

53.202 GEOMETRY FOR ELEMENTARY TEACHERS 3 semester hours

Reviews informal geometry, including area and volume. Presents a non-rigorous examination of groups, rings, and fields.

Prerequisite: 53.201.

53.204 MEASUREMENT AND METRIC SYSTEM FOR TEACHERS 1 semester hour

Examines the metric system and techniques of teaching it. Prepares the student for a metric society through group and individual pedagogy.

53.211 INTRODUCTION TO MODERN ALGEBRA 3 semester hours

Provides an introduction to the language and methods of abstract mathematics. Includes the subjects: sets, relations, functions, groups, rings and fields.

Prerequisite: 53.126.

53.225 ANALYSIS III 3 semester hours

Presents vector analysis in the plane and three dimensional space. Systems of linear equations, matrix algebra, linear transformations, partial derivatives.

Prerequisite: 53.126.

53.226 ANALYSIS IV 3 semester hours

Presents curves and parametric equations, surfaces, Taylor's theorem, functions between Euclidean spaces and multiple integrals.

Prerequisite: 53.225.

53.231 COLLEGE GEOMETRY 3 semester hours

Presents elementary geometry from an advanced standpoint. Discusses incidence in the plane and space, congruence, inequality and similarity concepts. Studies properties of polygons, circles and spheres.

53.241 PROBABILITY AND STATISTICS 3 semester hours

Studies descriptive and inferential statistics with emphasis on probabilistic distribution. Practical training in the calculation of various statistical measures obtained in the laboratory. A more rigorous course than 53.141.

Prerequisite: 53.126 or 124, or concurrency of 126 or 124.

53.271 ALGORITHMIC PROCESSES FOR COMPUTERS 3 semester hours

Examines the properties of algorithms; languages used in describing algorithms; the application of a procedure-oriented language (Fortran) to problem solving.

Prerequisite: 53.177 or 171.

53.275 MICROCOMPUTER CONCEPTS 3 semester hours

Advanced topics in programming with a microcomputer; operating systems; introductory concepts of microcomputer architecture; and machine and assembly language for microprocessors.

Prerequisite: 53.177.

53.311 ALGEBRA FOR SECONDARY SCHOOL TEACHERS 3 semester hours

Presents topics of elementary algebra from an advanced viewpoint. Considers topics of contemporary school mathematics programs.

Prerequisite: Ed. 65.352 or permission of instructor. (Offered alternate years.)

- 53.314 LINEAR ALGEBRA** **3 semester hours**
 Studies abstract vector spaces, linear transformations, matrices, determinants, inner product spaces, spectral theory, and related topics.
Prerequisite: 53.225.
- 53.322 DIFFERENTIAL EQUATIONS** **3 semester hours**
 Studies elementary ordinary differential equations; infinite series and power series solutions; some numerical methods of solution; and LaPlace transforms.
Prerequisite: 53.225.
- 53.331 MODERN GEOMETRY** **3 semester hours**
 Presents non-Euclidean geometrics and their development from postulate systems and a formal approach to projective geometry.
Prerequisite: 53.231. *(Offered alternate years.)*
- 53.341 ADVANCED STATISTICS** **3 semester hours**
 Emphasizes continuous probability spaces, statistical distributions and their applications.
Prerequisite: 53.141 or 53.241 and 53.126 or 53.124. *(Offered alternate years.)*
- 53.361 CODING AND SIGNAL PROCESSING** **3 semester hours**
 A mathematical approach to codes and ciphers. Includes security codes, coding for efficiency in computer storage, error-correcting codes. Signal processing, including the Fourier Transform and digital filters. Individual projects are required.
Prerequisite: 53.126. *(Offered fall only.)*
- 53.371 COMPUTER ORGANIZATION** **3 semester hours**
 Design of combinational and sequential circuits. Coding, various instruction formats and representation of data. Memory, central processors, input-output devices. Introduction to computer architecture. Characteristics and features of some existing computer systems.
Prerequisite: 92.256.
- 53.372 COMPUTER BASED TRAINING** **3 semester hours**
 Studies the theory, design and usage of a computer as an instructional or training tool. The micro computer will be used to demonstrate and develop software applications.
Prerequisite: 53.271 and permission of the instructor. *(Offered alternate years.)*
- 53.373 NUMERICAL METHODS IN COMPUTING** **3 semester hours**
 Studies 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 executes most of the algorithms using the computer.
Prerequisite: 53.271 and 53.124 or 53.126.
- 53.374 INTRODUCTION TO DISCRETE SYSTEM SIMULATION** **3 semester hours**
 An intermediate level course for students in CIS and other disciplines. Provides problem solving techniques suitable for certain classes of problems which are usually not solvable by traditional methods.
Prerequisites: 53.271, 53.123 or 53.125, 53.141 or 53.141 or permission of instructor. *(Offered spring only.)*
- 53.381 INTRODUCTION TO OPERATIONS RESEARCH** **3 semester hours**
 Presents a survey of the methods and models used in applying mathematics to problems to business. Includes topics of decision making; linear and dynamic programming; networks; inventory models, Markov processes and queuing theory.
Prerequisite: 53.225 and 53.271 or 53.118 and 53.123.
- 53.411 INTRODUCTION TO GROUP THEORY** **3 semester hours**
 Presents fundamentals of group theory. Includes topics of groups and related systems, normal subgroups and homomorphisms, Abelian groups, automorphisms and free groups.
Prerequisites: 53.211. *(Offered alternate years.)*
- 53.421 ADVANCED CALCULUS** **3 semester hours**
 Presents a rigorous treatment of the concepts of limit, continuity, derivative and integral for functions of a single real variable.
Prerequisite: 53.311 or 53.226. *(Offered fall only.)*

53.422 COMPLEX VARIABLES**3 semester hours**

Presents a rigorous treatment of complex numbers and theory of functions of a complex variable, limits, continuity, analytic functions, Cauchy-Riemann equations, contour integrals, conformal mappings, applications.

Prerequisite: 53.221 or 53.226.

(Offered alternate years.)

53.451 INTRODUCTION TO TOPOLOGY**3 semester hours**

Introduces fundamentals of general topology; elementary set theory, topological spaces, mappings, connectedness, compactness, completeness, product and metric spaces; nets and convergence.

Prerequisite: 53.225.

(Offered alternate years.)

53.461 NUMBER THEORY**3 semester hours**

Presents the theory of numbers. Includes the topics of Euclidean algorithm, congruences, continued fractions, Gaussian integers, and Diophantine equations.

Prerequisite: 53.211.

(Offered alternate years.)

53.471 NUMERICAL ANALYSIS**3 semester hours**

Provides a computer-oriented analysis of algorithms of numerical analysis. Includes the topics of non-linear equations, interpolation and approximation, differentiation and integration, matrices and differential equations.

Prerequisite: 53.271, 322, 373.

(Offered alternate years.)

53.472 MATRIX COMPUTATION**3 semester hours**

Presents computer-oriented techniques applied to inversion of matrices; diagonalization of matrices; band matrices; and the associated solution of linear algebraic equations.

Prerequisite: 53.271 and (53.118 or 53.225) and (53.123 or 53.125). *(Offered alternate years.)*

53.491 SPECIAL TOPICS IN MATHEMATICS**3 semester hours**

Presents an area of mathematics which is not available as a regular course offering.

Prerequisite: Permission of the instructor.

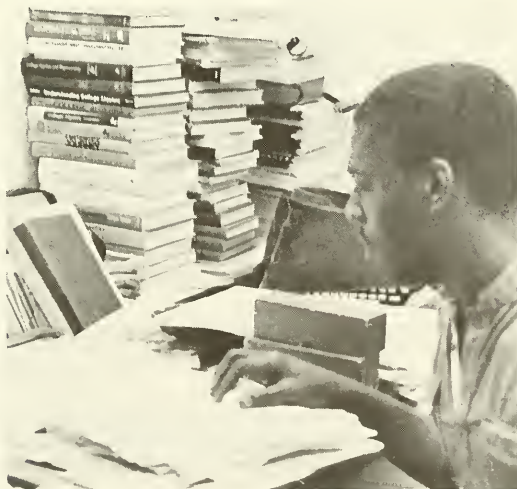
53.492 INDEPENDENT STUDY IN MATHEMATICS**1-3 semester hours**

Provides for directed study of a particular area of mathematics as mutually agreed upon by the student and the instructor. Emphasizes individual scholarly activity of the highly motivated student.

See Section 7.5.

53.493 HONORS INDEPENDENT STUDY IN MATHEMATICS**3 semester hours**

This course is for students who have demonstrated a high level of interest and ability in mathematics and who have mastered their required course work. The course gives a qualified student an opportunity to investigate a research problem selected under the supervision of a faculty member of the Department of Mathematics and Computer Science.



MUSIC

FACULTY:

Professors William K. Decker, John P. Master; Associate Professors John H. Couch, Stephen C. Wallace (Chairperson); Assistant Professors Wendy L. Miller, Terry A. Oxley, Carole S. Reifsteck.

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

Credit may be earned in seven ensembles: Maroon and Gold Band, Concert Choir, Women's Choral Ensemble, College-Community Orchestra, Husky Singers, Studio Band and Madrigal Singers. Enrollment in the ensembles is based on selection, permission or successful 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 voice, organ, piano, strings, woodwinds, brass and percussion are available to qualified students. As many as eight semester hours of private instruction may be earned in one of these instruments in as many semesters, sixteen semester hours in eight semesters for students majoring in applied music. The number of students accepted for private lessons is limited by faculty load, and acceptance or continuation is reserved for those who exhibit continued development. Private lessons, described as course numbers 35.141, 142, 143, 144; 151; 161, 162, 163, 164; 171; 181, 191, 192, 193, 194, 195, 196, and 35.241, 242, 243, 244; 251; 261, 262, 263, 264; 271; 281; 291, 292, 293, 294 and 295 for majors in music, may be elected after consultation with the respective faculty instructors. (For voice, contact Drs. Decker or Miller, for organ Dr. Decker, for piano Mr. Couch, for strings Dr. Master, for woodwinds and percussion Mr. Oxley, and brass Dr. Wallace).

MUSIC

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

35.131, 132, 133, 134, 231, 232, 331, 332, 221, 222, and 223; 101 is recommended; demonstration of piano proficiency by examination and/or election of 35.108; eight semesters (four semester hours) of ensemble; and one of the following two options:

Music History and Literature - 16 semester hours: 35.421, 422 and nine semester hours from 35.324, 325, 327, 350; also four semester hours of one of the instruments or voice.

Applied Music Option - 16 semester hours: one instrument or voice for eight semesters. Selection of voice as the applied music option requires 20 semester hours in language courses: 16.109, 10.101, 10.102, 11.101, 11.102, and 14.101.

COURSE DESCRIPTIONS

MUSIC (Code 35)

35.101 MUSIC LISTENING I

3 semester hours

Provides an approach to music listening through study of basic vocal and instrumental styles. Analysis of various masterpieces, composers and musical forms. Requires no previous musical experience. Recommended first-course in non-applied music.

- 35.108 PIANO PROFICIENCY** **1 semester hour**
Provides opportunity for majors in music to gain proficiency at the keyboard. May be repeated.
- 35.111 MAROON AND GOLD BAND** **1 semester hour**
Performs music of varied styles and periods. Marching band each fall, concert band each spring. Requires five hours/week each fall and four hours/week each spring. Requires two semesters for one semester hour. Selective admission.
- 35.112 CONCERT CHOIR** **1 semester hour**
Performs music of varied styles and periods, stressing oratorio and a cappella literature. Requires four hours/week for two semesters for one semester hour. Selective admission.
- 35.113 WOMEN'S CHORAL ENSEMBLE** **1 semester hour**
Performs varied styles from popular to masterworks. Requires three hours/week for two semesters for one semester hour.
- 35.114 COLLEGE-COMMUNITY ORCHESTRA** **1 semester hour**
Performs music appropriate to the symphony orchestra. Requires three hours/week for two semesters for one semester hour. Election requires permission of the instructor.
- 35.115 STUDIO BAND** **1 semester hour**
Performs jazz, swing, and other forms representing the big band style. Requires three hours/week for two semesters for one semester hour. Election requires permission of the instructor. Audition may be necessary.
- 35.116 HUSKY SINGERS** **1 semester hour**
Performs varied music for men's chorus. Requires two hours/week for two semesters for one semester hour. No audition required.
- 35.117 MADRIGAL SINGERS** **1 semester hour**
Performs music of many styles and periods though primarily of the Renaissance. Open to singers from other university vocal ensembles. Membership by audition only. Requires three hours/week for two semesters for one semester hour.
- 35.130 FUNDAMENTAL MUSICIANSHIP** **3 semester hours**
Explores personal musical understanding and development through elementary terminology, symbols, theory, music reading, singing, playing and chording of simple instruments, and bodily movement to music. Suggested for all students with little musical background as preparation for applied study and courses 35.311, 131, and 133. Recommended first-course in applied music.
- 35.131 THEORY I** **3 semester hours**
Studies harmony, voice leading, and keyboard harmonization. Requires three hours/week.
Prerequisite: 35.130 or permission of instructor.
(Offered fall only).
- 35.132 THEORY II** **3 semester hours**
Continues Theory I with the study of seventh chords and common-chord and chromatic modulations. Includes melodic and rhythmic dictation and keyboard realization. Requires three hours/week.
Prerequisite: 35.131.
(Offered spring only.)
- 35.133 SIGHT SINGING I** **1 semester hour**
Development of the musical ear through progressive training. Elected simultaneously with 35.131 by majors in music or as a single course by non-music majors. Requires two hours.
(Offered fall only.)
- 35.134 SIGHT SINGING II** **1 semester hour**
Continues musical ear training. Elected simultaneously with 35.132 by majors in music or as a single course by non-music majors. Requires two hours.
Prerequisite: 35.133.
(Offered spring only.)
- 35.141 VIOLIN** **1 semester hour each election**
Provides private instruction for students with demonstrated ability or potential. One-half hour per week. (May be repeated.)

- 35.142 VIOLA** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.143 VIOLONCELLO** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.144 DOUBLE BASS** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.151 ORGAN** **1 semester hour each election**
Provides private instruction for those who have previously studied organ or who have strong piano backgrounds. One-half hour per week. (May be repeated).
- 35.161 TRUMPET** **1 semester hour each election**
Provides private instructions for students with ability or potential. One-half hour per week. (May be repeated).
- 35.162 HORN** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.163 TROMBONE** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.164 BARITONE** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.165 TUBA** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.171 VOICE** **1 semester hour each election**
Provides private instruction for students with demonstrated vocal abilities. One-half hour per week. (May be repeated).
Prerequisite: 35.226
- 35.181 PIANO** **1 semester hour each election**
Provides private instruction for students with previous piano study. One-half hour per week. (May be repeated).
- 35.191 FLUTE** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.192 OBOE** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.193 CLARINET** **1 semester hour per election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.194 BASSOON** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.195 SAXOPHONE** **1 semester hour each election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated).
- 35.196 PERCUSSION** **semester hour per election**
Provides private instruction for students with ability or potential. One-half hour per week. (May be repeated.)

- 35.208 SPECIAL TOPICS IN MUSIC PERFORMANCE** **3 semester hours**
Provides a unique experience in performance or the study of performance practice. Instructor develops a one-time only study. Information is available by contacting the Department of Music.
- 35.209 SPECIAL TOPICS IN MUSIC APPRECIATION** **3 semester hours**
Provides a unique study of music beyond currently available course topics. Instructor develops a one-time-only study. Information is available by contacting the Department of Music.
- 35.221 MUSIC HISTORY I** **3 semester hours**
Emphasizes understanding and appreciation of music from medieval times to 1750 through listening and development of a technical vocabulary.
(Offered fall of even-numbered years.)
- 35.222 MUSIC HISTORY II** **3 semester hours**
Emphasizes understanding and appreciation of classical and romantic era art music through aural study of selected compositions and the relationship of the music to the culture of the times.
(Offered spring of odd-numbered years.)
- 35.223 MUSIC HISTORY III** **3 semester hours**
Studies compositional style of composers from Debussy to the present through listening and analysis of representative works.
(Offered fall of odd-numbered years.)
- 35.224 CLASS PIANO I** **2 semester hours**
Provides group piano instruction for the beginner. Emphasizes solo playing, creative accompaniments and sight reading. Requires three hours/week.
Prerequisite: Permission of faculty pianist, Professor Couch.
- 35.225 CLASS PIANO II** **2 semester hours**
Develops independence in solo playing and accompanying. Continuation of 35.224 for students with demonstrated abilities. Requires three hours/week.
Prerequisite: Permission of faculty pianist (Professor Couch).
- 35.226 CLASS VOICE** **2 semester hours**
Provides group voice instruction for the beginner. Emphasizes fundamental singing techniques and solo performance. Required prior to election of 35.171 and 35.271. Requires three hours/week.
- 35.228 SEMINAR IN PIANO ACCOMPANYING** **2 semester hours**
Provides instruction, coaching, systematic score study and critical performing experience for pianists. Requires three hours/week and includes performing.
(Offered fall of odd-numbered years.)
- 35.229 CLASS INSTRUCTION IN BRASS** **2 semester hours**
Provides group brass instruction for the beginner or the brass player who wishes to double. Emphasizes fundamental technique and elementary performance. Requires two hours/week.
Prerequisite: 35.130 or permission of instructor. (Offered fall of even-numbered years.)
- 35.231 THEORY III** **3 semester hours**
Continuation of theory. Includes formal analysis, original composition, harmonic dictation, and perception skills. Requires three hours/week.
Prerequisite: 35.132. (Offered fall of odd-numbered years.)
- 35.232 THEORY IV** **3 semester hours**
Continuation of theory. Reviews 20th Century compositional style. Includes analysis and composition. Requires three hours/week.
Prerequisite: 35.231 or permission of instructor. (Offered spring of even-numbered years.)
- 35.233 CHORAL TECHNIQUES** **3 semester hours**
Examines the development of techniques and abilities for participating in and supervising choral ensembles. Stresses tone production, proper breathing, conducting and reading of appropriate literature.
(Offered spring of even-numbered years.)

35.241 VIOLIN FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.242 VIOLA FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.243 VIOLONCELLO FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.244 DOUBLE BASS FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.251 ORGAN FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.261 TRUMPET FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.262 HORN FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.263 TROMBONE FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.264 BARITONE FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts Music degree program. (May be repeated for a maximum of 16 credits).

35.265 TUBA FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.271 VOICE FOR MUSIC MAJORS **2 semester hours each election.**

Provides two weekly-half hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.281 PIANO FOR MUSIC MAJORS **2 semester hours each election.**

Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

35.291 FLUTE FOR MUSIC MAJORS **2 semester hours each election**

Provides two weekly half-hour lessons for students electing applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).

- 35.292 OBOE FOR MUSIC MAJORS** **2 semester hours each election**
Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).
- 35.293 CLARINET FOR MUSIC MAJORS** **2 semester hours each election**
Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).
- 35.294 BASSOON FOR MUSIC MAJORS** **2 semester hours each election**
Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (may be repeated for a maximum of 16 credits).
- 35.295 SAXOPHONE FOR MUSIC MAJORS** **2 semester hours each election**
Provides two weekly half-hour lessons for students electing the applied specialization within the Bachelor of Arts in Music degree program. (May be repeated for a maximum of 16 credits).
- 35.311 MUSIC IN THE ELEMENTARY SCHOOL** **3 semester hours**
Provides students with skills, background and attitudes to help understand musical creativity and the value of music in the lives of today's youth.
- 35.324 AMERICAN MUSIC** **3 semester hours**
Analyzes works of selected American composers with reference to characteristics indigenous to American music.
Prerequisite: 35.101. (Offered fall of even-numbered years.)
- 35.325 OPERA AND MUSIC THEATRE** **3 semester hours**
Studies great works of the lyric stage. Emphasizes listening and reading works of opera, operetta and the popular theatre.
Prerequisite: 35.101. (Offered spring of odd-numbered years.)
- 35.327 SURVEY OF POPULAR MUSIC** **3 semester hours**
Analyzes factors and elements of American popular music with emphasis on developments in the 20th Century. Includes a chronological study of jazz, balladry, spiritual, country-western, theatre, film and rock in comparative listening situations.
Prerequisite: 35.101. (Offered fall of odd-numbered years.)
- 35.331 THEORY V, COUNTERPOINT** **2 semester hours**
Continuation of theory. Studies melodic writing in two and three voices through the 18th Century style. Requires two hours/week.
Prerequisite: 35.132. (Offered fall of even-numbered years.)
- 35.332 THEORY VI, ORCHESTRATION** **2 semester hours**
Continuation of theory. Examines instrumental transposition, idioms, score writing and analysis. Requires two hours/ week.
Prerequisite: 35.331. (Offered spring of odd-numbered years.)
- 35.350 SEMINAR IN MUSIC THEATRE** **3 semester hours**
Studies the Broadway musical with special emphasis on works currently in production.
(Offered only in conjunction with some productions, during the summer and spring semesters.)
- 35.421 SEMINAR IN MUSIC HISTORY I** **2 semester hours**
Emphasizes development of skill in independent research in areas of music history for majors in music electing the music history specialization.
Prerequisite: 35.221, 222, 223. (Offered in spring semesters as needed.)
- 35.422 SEMINAR IN MUSIC HISTORY II** **1 semester hour**
Continuation of 35.421 with emphasis on academic research and musicology for majors in music electing the music history specialization.
Prerequisite: 35.421. (Offered in fall semesters as needed.)

35.491 INDEPENDENT STUDY IN MUSIC

1-3 semester hours

Provides for a student project of a creative nature in music history, education or performance.

(See Section 7.5.)

35.497 INTERNSHIPS IN MUSIC

1-9 semester hours

Provides for extended off-campus field experience to be arranged by the major in music, a faculty adviser and an off-campus agency. Requires the consent of the Department of Music prior to registration.

Minor in Music

The minor in music is a 25 semester hour program distributed over eight semesters that may be selected by undergraduate students who major in a program other than the Bachelor of Arts in Music. The minor is selected from specific courses coded 35 that includes music theory, ear training, applied study, performing ensembles and music history: 35.101, 111, 112, 113, 114, 115, 116, 117; 131, 132, 133, 134; 141, 142, 143, 144; 151; 161, 162, 163, 164, 165; 171; 181; 191, 192, 193, 194, 195, 196; 208, 209; 221, 222, 223; 224, 225; 226; 228, 229; 311; 324, 325, 327; 331, 332 and 350.



PHILOSOPHY

FACULTY:

Professors Richard J. Brook, William L. Carlough (Chairperson), Oliver J. Larmi; Associate Professors Seymour Schwimmer and 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.

A. Historical Philosophy: 28.310, 28.312, 28.314 and 28.470

B. Systematic Philosophy 28.303, 28.304, 28.306, 28.308, 28.350, 28.351 and 28.470

COURSE DESCRIPTIONS

PHILOSOPHY

(Code 28)

28.207 ETHICS, POLITICS AND PUBLIC POLICY 3 semester hours

An examination of normative, descriptive and metaethical approaches employed by politicians and policy makers in confronting issues of responsibility and choice in public programs and policies. The course focuses on ethical problems and responses in civic life and emphasizes the ways alternatives impact on society.

28.211 INTRODUCTION TO PHILOSOPHY 3 semester hours

Presents reflective inquiry into selected problems of general philosophic interest. Considers types of knowledge, nature of reality, individual and social values, and existence of God.

28.212 LOGIC 3 semester hours

Reviews methods and principles of reasoning with applications to contemporary debates. Examines informal fallacies; the syllogism; predicate calculus; sentential calculus; quantification, and induction.

28.220 ETHICS 3 semester hours

Studies ethical theory focusing on such issues as ethics as a branch of knowledge; egoism vs. altruism, and the role of intentions and consequences in moral judgments. Reviews theories such as Relativism, Utilitarianism and Kantianism. Investigates concepts of "rights" and "justice."

28.230 RELIGIONS OF THE EAST 3 semester hours

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

(Offered fall only.)

28.271 THE WESTERN RELIGIOUS TRADITION 3 semester hours

Examines the four great monotheisms, Zoroastrianism, Judaism, Christianity, and Islam. Inquires into the original literature as well as the evolving theologies. Discusses modern issues within these religious traditions.

(Offered spring only.)

28.290 MEDICAL ETHICS 3 semester hours

Investigates moral issues that arise in such medical contexts as human experimentation, death and dying, medical care and its distribution, genetic engineering and the definition of health and illness.

28.292 CONTEMPORARY MORAL PROBLEMS 3 semester hours

Investigates 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.

- 28.295 BUSINESS ETHICS** **3 semester hours**
 Review of moral canons in relation to business practice. Moral concepts are applied in analyzing business situations. Utilitarianism, Kantianism and contemporary Egalitarianism are introduced as aids in decision making. General principles and concrete cases considered.
- 28.303 PHILOSOPHY OF SCIENCE** **3 semester hours**
 Analyzes the logic of inquiry in the natural and social sciences; the nature of scientific explanation; problems of causality, measurement, prediction and verification.
(Offered fall of odd-numbered years.)
- 28.304 PHILOSOPHY OF THE SOCIAL SCIENCES** **3 semester hours**
 Examines conceptual problems in the social science disciplines, including objectivity, classification, explanation, nature of laws and reductionism.
(Offered spring of odd-numbered years.)
- 28.306 PHILOSOPHY OF RELIGION** **3 semester hours**
 Presents a critical analysis of the origins and nature of faith. Emphasizes types of religion, evidence supporting religious belief and problems in and challenges to religion.
(Offered spring only.)
- 28.310 HISTORY OF ANCIENT PHILOSOPHY** **3 semester hours**
 Studies the origins of Western Philosophy in Ancient Greece. Examines Plato's philosophical writings in light of pre-Socratic speculation on the one hand and in terms of Aristotle's criticisms and developments on the other.
(Offered spring of odd-numbered years.)
- 28.312 HISTORY OF MODERN PHILOSOPHY** **3 semester hours**
 Examines the writings of the 17th and 18th century philosophers whose works reflect the "scientific revolution" (Galileo to Newton). Considers works of Descartes, Locke, Berkeley, Hume and Kant. 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.
(Offered fall of odd-numbered years.)
- 28.314 EXISTENTIALISM AND PHENOMENOLOGY** **3 semester hours**
 Studies the writings of such men as Kierkegaard, Nietzsche, Husserl, Sartre and Tillich. Major themes include: human subjectivity, human freedom, alienation and meaning.
(Offered spring of even-numbered years.)
- 28.315 CONTEMPORARY ANALYTIC PHILOSOPHY** **3 semester hours**
 Examines 20th Century philosophical movement concerned with logical analysis. Emphasizes the analysts' reconstruction of the relation between language and philosophy, particularly theories of knowledge, ethics and religion.
- 28.350 ENVIRONMENTAL PHILOSOPHY** **3 semester hours**
 Surveys attitudes towards nature; man's relationship to it; the role of technology, and discussion of the ethical dimensions of the environmental crisis.
(Offered fall only.)
- 28.351 THEORY OF KNOWLEDGE** **3 semester hours**
 Inquires into the problem of knowledge, certainty and skepticism. Reviews the theory of perception; discusses concepts of meaning and truth.
(Offered spring only.)
- 28.431 PHILOSOPHY OF HISTORY** **3 semester hours**
 Examines 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. Discusses the role of speculative philosophies of history in the writing of history.
Prerequisite: 3 semester hours of philosophy or 9 semester hours of history.
(Offered fall of even-numbered years.)
- 28.470 INDEPENDENT STUDY IN PHILOSOPHY** **3 or 6 semester hours**
 Provides for individual study of a particular philosophical problem under the guidance of the staff. Emphasizes independent research on topics selected by the student and the faculty member. The course may be taken twice.
Prerequisite: 6 semester hours of philosophy. *(See Section 7.5.)*
- 28.471 SEMINAR** **3 semester hours**
 Studies selected problems in philosophy.

PHYSICS

FACULTY:

Professors David J. Harper (Chairperson), David A. Superdock, M. Gene Taylor; Associate Professors P. Joseph Garcia, Stephen G. Wukovitz; Assistant Professors Levi J. Gray, P. James Moser.

PHYSICS

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

Physics 54.211, 212, 302, 310, 314, 400, 12 semester hours chosen from other physics courses numbered above 300; Mathematics 53.125, 126, 225, 271, 322; Chemistry 52.111, 112, 113.

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

Physics 54.211, 212, 302, 310, 314, 400, 450; 15 semester hours chosen from other physics courses numbered above 300; Mathematics 53.125, 126, 225, 271, 322; 3 semester hours chosen from Mathematics 53.226, 314, 373; Chemistry 52.111, 112, 113.

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

Minor in physics:

Physics 54.211, 212, 315, 316, 317 Note: These courses must be taken in sequence.

COURSE DESCRIPTIONS

PHYSICS (Code 54)

- 54.101 BASIC PHYSICAL SCIENCE** **3 semester hours**
Provides 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. 3 hrs. class per week.
- 54.103 PRINCIPLES OF PHYSICAL SCIENCE** **3 semester hours**
Presents an integrated physical science course emphasizing laboratory experience. Encourages the development of mental models to correspond with experience. Studies atoms, molecules, materials and chemical change; energy, light and electricity. Especially recommended for elementary teachers. 4 hrs. class-laboratory per week.
- 54.104 ELEMENTARY ELECTRONICS** **3 semester hours**
Presents an introduction to basic electronics. Designed to give students in non-physical science areas some theoretical and practical knowledge of electronic circuits, instruments and devices. No previous experience of physics or electronics required.
- 54.105 ENERGY: SOURCES AND ENVIRONMENTAL EFFECTS** **3 semester hours**
Explains energy in elementary scientific terms and examines the present national and international energy situations in regard to sources, utilization, and environmental effects. Surveys the fossil fuels and nuclear, solar, geothermal, and other energies with respect to availability and promise for the future. 3 hrs. class per week.

- 54.107 APPLIED PHYSICS FOR HEALTH SCIENCES** 4 semester hours
 Studies selected principles of physics with applications to the processes and instrumentation of medical technology. Examines mechanics, fluids, kinetic energy and heat, optics, electricity and magnetism, electronics, atomic structure, radiation, and data acquisition and readout. Six hours per week.
(Offered spring only).
- 54.111 INTRODUCTORY PHYSICS I** 4 semester hours
 Presents an intuitive approach to selected topics such as mechanics, heat, kinetic molecular theory of gases, wave motion and sound. Not intended for students specializing in physics or chemistry. Six hours per week.
(Offered fall only.)
- 54.112 INTRODUCTORY PHYSICS II** 4 semester hours
 Studies electricity, magnetism, light, relativity, quantum and atomic theory, structure of matter, and nuclear and particle physics. A continuation of 54.111. Six hours per week; three classes, three laboratories.
Prerequisite: Phys 54.111 or consent of instructor. (Offered spring only.)
- 54.211 GENERAL PHYSICS I** 4 semester hours
 Presents an introduction to physics using calculus. Studies mechanics, the physics of fluids, kinetic theory, heat and thermodynamics. Appropriate for physical science or mathematics majors. Six hours per week.
Prerequisite: Math 53.125 or concurrent registration. (Offered fall only.)
- 54.212 GENERAL PHYSICS II** 4 semester hours
 Studies wave motion, sound, geometrical and physical optics, electricity, and magnetism. A continuation of 54.211. Six hours per week; three classes, three laboratories.
Prerequisite: Math 53.126 or concurrent registration; Phys 54.211, or 54.111 with consent of instructor. (Offered spring only.)
- 54.301 MECHANICS: STATICS** 3 semester hours
 Introduces the fundamentals of statics with an emphasis on vector methods, at a level appropriate for physical science majors and for students considering a career in engineering. Three hours class per week.
Prerequisite: Math 53.126 or concurrent registration; Phys 54.211, or 54.111 with consent of instructor. (Offered alternate years.)
- 54.302 MECHANICS: DYNAMICS** 3 semester hours
 Introduces the fundamentals of dynamics with an emphasis on vector methods, at a level appropriate for physical science majors and for students considering a career in an engineering field. Three hours class per week.
Prerequisite: Math 53.225 or concurrent registration; Phys 54.112, or 54.212 with consent of instructor. (Offered alternate years.)
- 54.304 NUCLEAR RADIATIONS** 2 semester hours
 Presents a laboratory-oriented course dealing primarily with basic techniques for detecting, measuring and analyzing nuclear radiations. Studies applications of nuclear radiations in science and technology. Aspects of radiation safety and radiation pollution of the environment. Four hours per week; 1 class, 3 laboratory.
Prerequisite: Phys 54.212 or 54.112 or consent of instructor. (Offered alternate years.)
- 54.310 MODERN ATOMIC PHYSICS** 3 semester hours
 Introduces the concepts of quantum theory, wave mechanics and relativity in atomic and nuclear physics. Three hours per week.
Prerequisite: Phys 54.212, or 54.112 with consent of instructor. (Offered fall only.)
- 54.314 ELECTRICITY AND MAGNETISM** 3 semester hours
 Studies electric and magnetic fields, potential, dielectric properties, electric circuits, electromagnetic induction and magnetic properties of matter, with a brief introduction to electromagnetic waves. Three hours per week.
Prerequisites: Phys 54.212, or 54.112 with consent of instructor; Math 53.225. (Offered alternate years.)

- 54.315 ELECTRONICS** **4 semester hours**
 Presents the theory and application of semiconductors and vacuum tubes with special emphasis on circuitry. Studies basic electronic instrumentation as related to the gathering, processing, and display of scientific data in any discipline. Six hours per week; three classes, three laboratories.
Prerequisite: Phys 54.112 or 54.212. *(Offered alternate years.)*
- 54.316 DIGITAL ELECTRONICS** **3 semester hours**
 An introduction to the techniques and devices of digital electronics. Includes practical experience of the building and testing of digital circuits. Supplies the background necessary for the understanding of microprocessors and computer circuits. Three hours class per week.
Prerequisite: Junior standing or consent of instructor.
- 54.317 COMPUTER ELECTRONICS** **3 semester hours**
 An introduction to the electronics and operation of digital computers, intended for students possessing a background in digital circuitry. Includes practical experience of the operation and interfacing of microprocessors and other devices. Three hours class per week.
Prerequisite: Physics 54.316 or consent of instructor.
- 54.318 OPTICS** **3 semester hours**
 Presents a combination of geometrical optics including lens theory with physical (wave) optics including diffraction, interference, polarization, lasers and coherent light. 3 hrs. class per week.
Prerequisite: Phys 54.212, or 54.112 with consent of instructor. *(Offered alternate years.)*
- 54.400 ADVANCED PHYSICS LABORATORY** **2 semester hours**
 Presents the basic tenets of lab work in physics, involving considerations of experimental error, proper research and preparation for an experiment. Includes experiments primarily from the areas of atomic physics, electricity, magnetism and optics. Four hours per week; 1 class, 3 laboratory.
Prerequisite: Physics 54.310, 54.314 *(Offered alternate years.)*
- 54.421 SOLID STATE PHYSICS** **3 semester hours**
 Examines physical properties of matter in the solid state. Reviews basic quantum concepts, crystal structure, electrons in metals, electrical conductivity, semi-conductors, and band theory and the p-n junction. Studies dielectric and magnetic properties of matter. 3 hrs. class per week.
Prerequisite: Phys 54.310, 314; Math 53.225. *(Offered alternate years.)*
- 54.422 THERMODYNAMICS** **3 semester hours**
 Presents concepts and principles of classical thermodynamics, thermodynamics of simple systems, introduction to kinetic theory and statistical thermodynamics. 3 hours class per week.
Prerequisites: Phys 54.212, or 54.112 with consent of instructor; Math 53.225. *(Offered alternate years.)*
- 54.450 INTRODUCTION TO QUANTUM MECHANICS** **3 semester hours**
 Introduces the fundamentals of quantum and wave mechanics, beginning with a review of quantum radiation theory and proceeding through the Schroedinger presentation. Includes discussion of one dimensional potential function, the harmonic oscillator and the hydrogen atom. 3 hours class per week.
Prerequisite: Phys 54.310. *(Offered alternate years.)*
- 54.480 HISTORY OF PHYSICAL SCIENCE** **3 semester hours**
 Presents 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. 3 hours class per week.
Prerequisite: Phys 54.112, Chem 52.112, or their equivalent. *(Offered alternate years.)*
- 54.490 SEMINAR IN PHYSICS** **1 semester hour**
 A selected topic in physics is studied and prepared in a form suitable for presentation. The student attends and participates in physics seminars and makes his presentation in the same semester as that of enrollment in the course.

54.491 INDEPENDENT STUDY IN PHYSICS

1-3 semester hours

Investigates 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 and may involve limited experimental work.

(See Section 7.5)

54.493 INDEPENDENT RESEARCH

1-3 semester hours

Provides for an application of theoretical and/or experimental research methods to a special problem. May be interdisciplinary. Requires the preparation of a report. Requires a plan approved in advance by the Department Chairperson which is acceptable to the student and the supervising faculty member.

54.494 HONORS INDEPENDENT STUDY IN PHYSICS

3 semester hours

Provides the qualified student with an opportunity to participate in an advanced experimental or theoretical investigation of a current problem in physics under the supervision of a physics faculty member having expertise in the student's proposed research area.



POLITICAL SCIENCE

FACULTY:

Professors Robert L. Rosholt (Chairperson), Charles G. Jackson; Associate Professors Martin M. Gildea, 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:

181, 271, 366, 371, 373, 376, 383, 463, 464, 465 or 487.

Only one 100-level course may be used to fulfill the theory/ methodology or the comparative government/international relations 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 adviser.

Minor in Political Science:

Total Hours - 18 semester hours; Required courses - Depends on option selected. Contact the Department of Political Science for details.

COURSE DESCRIPTIONS

POLITICAL SCIENCE

(Code 44)

- | | |
|--|-------------------------|
| 44.101 ELEMENTS OF POLITICAL SCIENCE | 3 semester hours |
| Introduces 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 semester hours |
| Presents an introduction to political ideas shaping the contemporary world: nationalism, liberalism, conservatism, capitalism, socialism, communism and totalitarianism. | |
| 44.161 UNITED STATES GOVERNMENT | 3 semester hours |
| Introduces government and politics in the United States emphasizing constitutional development, political development, civil rights, parties, elections, pressure groups, Congress, the President, courts and contemporary problems such as foreign affairs, defense, inflation, unemployment, energy and poverty. | |
| 44.181 CONTEMPORARY ISSUES IN WORLD POLITICS | 3 semester hours |
| Presents 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. | |
| 44.207 ETHICS, POLITICS AND PUBLIC POLICY | 3 semester hours |
| An examination of normative, descriptive and metaethical approaches employed by politicians and policy makers in confronting issues of responsibility and choice in public programs and policies. The course focuses on ethical problems and responses in civic life, and emphasize the ways alternatives impact on society. | |

- 44.244 INTRODUCTION TO CRIMINAL JUSTICE** 3 semester hours
Seeks to provide students with a comprehensive survey and basic understanding of the role and function of the criminal justice field. Attention is given to: crime and criminal law, law enforcement the police, court, corrections and juvenile justice.
- 44.271 STATES, NATIONS AND GOVERNMENTS** 3 semester hours
Attempts to operationalize the concepts of state, nation government, then demonstrate how these operationalized concepts interface each other.
- 44.303 POLITICS AND THE ARTS** 3 semester hours
Surveys painting, music, films, poetry and novels to show the relationship between these media and political concepts, philosophies and problems.
- 44.322 POLITICAL VIOLENCE** 3 semester hours
Surveys individual, group and mass political violence, concentrating on causes and manifestations. Studies 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 semester hours
Seeks to describe, explain and analyze topics in personality and social psychology that seem relevant in understanding political behavior. It also stresses the method to be used in gathering evidence concerning politics and psychology.
- 44.324 POLITICAL SOCIALIZATION** 3 semester hours
Studies the process of socialization and its relation to political attitudes, values and behaviors through socializing agents such as the family, elementary and secondary schools, peer groups, work groups and mass media. Presents this in light of political, psychological and sociological concepts.
(Offered fall of even-numbered years.)
- 44.326 PARTIES, GROUPS AND PUBLIC OPINION** 3 semester hours
Examines the development of political parties in the United States; elections, voter behavior and political participation, the role of interest groups and political propaganda.
- 44.331 LEGAL AND POLITICAL ASPECTS OF BUSINESS** 3 semester hours
Describes and analyzes the legal environment surrounding business, concentrating on the role of government, especially the courts, in affecting business relationships. The impact of administrative regulatory agencies and government policies such as affirmative action are analyzed.
- 44.336 PUBLIC ADMINISTRATION THEORY** 3 semester hours
Leadership and motivation propositions on personnel management, conflict, competition and cooperation propositions of budgeting and communication-information propositions in relation to planning are considered.
(Offered fall only.)
- 44.366 THE POLITICAL SYSTEMS OF WESTERN EUROPE** 3 semester hours
Democracy as practiced in Western Europe; the politics and government of Great Britain, France, and West Germany; comparisons with the United States; principles of comparative analysis.
(Offered fall of even-numbered years.)
- 44.371 POLITICAL SYSTEMS-AFRICA** 3 semester hours
Examines problems of newly independent states, the struggle for independence and the attempts to create national unity and create political stability, economic and political development, role of military in politics and politics in the Republic of South Africa.
- 44.373 GOVERNMENT AND POLITICS IN CHINA AND INDIA** 3 semester hours
Studies politics and government in selected states with an emphasis on the forces which shape domestic and foreign politics and processes.
- 44.376 GOVERNMENT AND POLITICS OF THE MIDDLE EAST** 3 semester hours
Introduces the political history and governments of particular states in the region and considers their interactions regionally and internationally. The course considers, in particular, the importance of Islam in politics and the Arab-Israeli Conflict.

- 44.383 INTERNATIONAL RELATIONS** **3 semester hours**
Examines sources of international conflict and cooperation, power politics in the international arena, problems of collective security and the settlement of disputes, diplomacy, revolution and International Law
(Offered fall only.)
- 44.405 THE DEVELOPMENT OF POLITICAL THOUGHT** **3 semester hours**
A chronological survey from the ancient Greeks to the present is undertaken to present the ideas of seminal political thinkers as they grappled with perennial problems.
(Offered fall of odd-numbered years.)
- 44.409 AMERICAN POLITICAL THOUGHT** **3 semester hours**
Analyzes 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. Includes the main ideas of the leading political thinkers in America from the Colonial period to the present.
(Offered fall of even-numbered years.)
- 44.412 SCOPE, APPROACHES AND METHODS OF POLITICAL SCIENCE** **3 semester hours**
Analyzes the various approaches and methods currently in use in political science.
- 44.437 PUBLIC ADMINISTRATION APPLICATIONS** **3 semester hours**
This course operationalizes the theory of Public Administration by using simulations and cases.
(Offered spring only.)
- 44.438 PUBLIC PERSONNEL ADMINISTRATION** **3 semester hours**
Public service as a career, the personnel needs of national, state and local governments, civil service law, personnel systems and current problems.
- 44.440 THE PRESIDENT AND CONGRESS** **3 semester hours**
Reviews presidential and congressional politics, public policy-making roles, executive-legislative relationships and constitutional issues. Examines problem areas and proposals for reform.
(Offered fall only.)
- 44.445 PUBLIC CHOICE** **3 semester hours**
Examines theories of Committees and elections (D. Black), voting and candidates (A. Downs), constitutions (J. Buchanan and G. Tullock), public goods (M. Olson) and bureaucracy (W. Niskanen).
(Offered fall of even-numbered years.)
- 44.446 CONSTITUTIONAL LAW I** **3 semester hours**
Analyzes the evolution, structure and function of the Supreme Court, concentrating on a case study approach of the Court's interpretations of the powers of the President, Congress and federal-state relationships.
(Offered fall only.)
- 44.447 CONSTITUTIONAL LAW II** **3 semester hours**
Studies 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.
(Offered spring only.)
- 44.448 THE JUDICIAL PROCESS**
Studies policy-making by the federal courts, primarily the Supreme Court. The nature of the policy-making function as well as the impact of policy-making on American society are also analyzed.
- 44.452 STATE AND LOCAL GOVERNMENT AND POLITICS** **3 semester hours**
Presents 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.
(Offered spring only.)

- 44.456 PUBLIC POLICY** **3 semester hours**
 Agenda setting of initiating issues and framing problems, estimating forecasts, selecting recommendations, monitoring implementation and evaluation are considered. These are then applied to redistribution, subsidy, regulation and management policies.
(Offered spring of odd-numbered years.)
- 44.458 U.S. FOREIGN POLICY** **3 semester hours**
 Analyzes the substance, methods and purposes of U.S. foreign policy including the determinants of policy, policy making machinery and implementation matters.
- 44.463 THE USSR POLITICAL SYSTEM** **3 sem. hrs.**
 Studies the history, development, ideology, structure, process, institutions and policies of the Soviet Political System.
- 44.464 GOVERNMENT AND POLITICS OF IRELAND** **3 semester hours**
 Presents 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. Examines contemporary literature, drama, music, and art.
- 44.487 INTERNATIONAL LAW AND ORGANIZATION** **3 semester hours**
 Presents the theoretical and practical implications of the legal and organizational efforts to regulate international 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 semester hours**
 Provides for individualized reading, research and reporting under conditions of minimal supervision. Projects must have departmental approval and be under way by the end of the first week of a session.
(See Section 7.5)
- 44.491 READINGS IN GOVERNMENT AND POLITICS** **3 semester hours**
 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 semester hours**
 Examines selected problems in government and politics in an attempt to review and unify theories and methods of political science. Emphasizes individual research projects.
- 44.496 FIELD EXPERIENCE IN POLITICAL SCIENCE** **1-6 semester hours**
 Provides for supervised individual or group activities, including internships of a non-classroom variety in applied areas of political science.
- 44.497 INTERNSHIP IN POLITICAL SCIENCE** **1-15 semester hours**
 Provides for 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, Donald A. Camplese, Steven L. Cohen, Michael W. Gaynor, Alex Poplawsky, Constance J. Schick, J. Calvin Walker (Chairperson); Associate Professors James Dalton, Robert B. Hessert, L. Richard Larcom; Assistant Professors Eileen Astor-Stetson, Ellen B. Barker, Michael M. Levine.

PSYCHOLOGY

Arts and sciences major for B.A. degree:

General curriculum:

Psychology 48.101, 160, 281, 282 and 401 plus 21 semester hours of electives in psychology with one or two courses in each of three categories defined by the department for a minimum of 36 hours.

Applied curriculum:

Psychology, 48.101, 160, 281, 282 and 497 (6 hours) plus 18 semester hours of electives in psychology with one or two courses in each of the three categories defined by the department for a minimum of 36 hours.

Arts & sciences minor:

Psychology 48.101, 160 (or its equivalent), 281 and three courses, two of which must be at the 300 or 400 level for a minimum of 18 hours.

COURSE DESCRIPTIONS

PSYCHOLOGY

(Code 48)

- 48.101 GENERAL PSYCHOLOGY** **3 semester hours**
 Studies psychology as a system of scientific inquiry into the nature and behavior of humans. Presents major concepts, principles and processes concerned with human functioning in individuals and social settings.
- 48.110 LIFE-SPAN PSYCHOLOGY** **3 semester hours**
 Examines the psychology of human development from conception to death. Discusses traditional topics and issues in developmental psychology such as cognition and personality, but within a life-span developmental perspective.
- 48.131 PSYCHOLOGY OF ADJUSTMENT** **3 semester hours**
 Examines the personal and social meaning of adjustment. Presents an operational approach to mental health, including such concepts as anxiety, frustration, conflict, aggression and defense.
- 48.160 BASIC STATISTICS** **3 semester hours**
 Introduces fundamental statistical concepts and principles, providing a foundation for research methodology for students who need not be mathematically inclined. Discusses computation, interpretation and application of commonly used descriptive, correlation and inferential statistical procedures for analyzing data.
- 48.211 CHILD PSYCHOLOGY** **3 semester hours**
 Studies normal development and the interrelationships among various aspects of biological, cognitive, personality and social factors. Emphasizes prenatal to adolescent development.
Prerequisite: 48.101.

- 48.212 ADOLESCENCE** **3 semester hours**
 Studies developmental, personal and social issues confronting adolescents as they emerge from childhood and strive for adulthood.
Prerequisite: 48.101.
- 48.251 SOCIAL PSYCHOLOGY** **3 semester hours**
 Presents 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.
- 48.254 PSYCHOLOGICAL ASPECTS OF SOCIAL ISSUES** **3 semester hours**
 Examines the application of psychological theories and techniques to existing social issues and their relationship to alternative ethical viewpoints regarding social issues selected by the instructor for study.
Prerequisite: 48.101.
- 48.271 EDUCATIONAL PSYCHOLOGY** **3 semester hours**
 Examines principles of psychology as applied to the classroom. Emphasizes learning processes as affected by environment, experiential and developmental factors.
Prerequisite: 48.101.
- 48.281 EXPERIMENTAL PSYCHOLOGY: METHODOLOGY** **3 semester hours**
 Introduces experimental design, statistical analysis and issues of control and confounding. Surveys classical and learning experimentations as well as issues in social, developmental, educational and clinical psychology from an experimental perspective.
Prerequisite: 48.101 and 48.160.
- 48.282 EXPERIMENTAL PSYCHOLOGY: APPLICATIONS** **3 semester hours**
 Surveys 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.
Prerequisites: 48.101, 48.160 and 48.281 or concurrently taking 48.281.
- 48.297 STUDENT DEVELOPMENT LEADERSHIP SKILLS** **3 semester hours**
 Integrates supervised experience in peer counseling and student leadership in residence halls with structured training in human relations and communication skills. Significant issues and controversies regarding the provision of student services are considered.
Prerequisite: None - must be a first-year student resident assistant. (Does not count toward a Psychology major).
- 48.311 ADULTHOOD AND AGING** **3 semester hours**
 Studies the development of adults in our culture. Includes topics on the effects of the social environment on aging, special problems of aging, sex differences during adulthood, vocational, marital and familial development and the psychology of death and dying. Emphasizes human behavior between young adulthood and senescence with particular emphasis on the aging process.
Prerequisite: 48.101.
- 48.321 PSYCHOLOGICAL TESTS AND MEASUREMENTS** **3 semester hours**
 Presents an introduction to the logic of psychological measurement, including the applied and practical aspects of psychological testing, with emphasis on reliability, validity and test norms. Provides student with background for test evaluation.
Prerequisite: 48.101. *(Offered fall only.)*
- 48.335 ABNORMAL PSYCHOLOGY** **3 semester hours**
 Surveys the description, causation, prevention and treatment of maladaptive behavior, as well as the ethical aspects of these issues. Considers biological, psychological and social factors.
Prerequisite: 48.101 and junior standing. *(Offered spring only.)*
- 48.356 PSYCHOLOGY OF MOTIVATION** **3 semester hours**
 Surveys the fundamental determinants of human and animal activity. Studies theories, research methodologies and experimental evidence related to the activation and direction of behavior.
Prerequisite: 48.101, junior standing and 6 additional credits in Psychology. *(Offered fall only.)*

- 48.375 PSYCHOLOGY OF LEARNING** **3 semester hours**
Examines the theoretical and experimental bases of learning in animal and human behavior. Studies situational and drive factors affecting learning, stimulus generalization and discrimination, retention and forgetting.
Prerequisites: 48.101, 160, 281, 282, or consent of instructor.
(Offered fall only.)
- 48.380 PHYSIOLOGICAL PSYCHOLOGY** **3 semester hours**
Studies the relationship between psychological processes and physiological activity. Reviews neurological and biochemical bases of behavior with emphasis upon the synergistic functions of the nervous system, sense organs and glandular system.
Prerequisites: 48.101, 160, 281, 282, or consent of instructor. *(Offered spring only.)*
- 48.401 HISTORY OF PSYCHOLOGY** **3 semester hours**
Studies the historical development of modern psychology and compares present-day models of behavior within a historical framework.
Prerequisite: 48.101 and junior standing.
- 48.406 PSYCHOLOGY SEMINAR** **3 semester hours**
Provides for an advanced consideration of significant topics in psychology. Requires reports and discussions of current research and may be repeated with change in topic.
Prerequisite: 48.101 and consent of instructor.
- 48.436 THEORIES OF PERSONALITY** **3 semester hours**
Provides a 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. *(Offered fall only.)*
- 48.439 INTRODUCTION TO CLINICAL PSYCHOLOGY** **3 semester hours**
Surveys clinical psychology and the role of the clinical psychologist in community and hospital mental health programs, clinical assessment and diagnosis. Examines concepts in and models of psychotherapy.
Prerequisite: 48.101, 335 or 436 or consent of instructor. *(Offered spring only.)*
- 48.451 LABORATORY TRAINING IN GROUP PROCESSES** **3 semester hours**
Offers on-going experience on topics including norm-setting, leadership, problem solving, role playing, cooperation/competition and decision making. Class size limited to 20 students.
Prerequisite: 48.101 and consent of instructor. *(Offered spring only.)*
- 48.453 ORGANIZATIONAL PSYCHOLOGY** **3 semester hours**
Describes the application of psychological theory and research to the study of industrial, business, profit and nonprofit service, military and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics and organizational climates and strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations.
Prerequisite: 48.101, 251 and junior standing. *(Offered spring only.)*
- 48.458 NONVERBAL COMMUNICATION AND INTERPERSONAL RELATIONS** **3 semester hours**
Presents experimental investigation of interpersonal and intrapersonal communication (within the framework of interpersonal relations) based on various communication modes (i.e., verbal, nonverbal, vocal, etc.). Promotes understanding of research and theory in relation to selected problems in communication. Stresses the conducting of experimental research in communication.
Prerequisite: 48.101, 251 or consent of instructor (48.160 recommended.)
(Offered fall only.)
- 48.463 PERSONNEL PSYCHOLOGY** **3 semester hours**
Surveys behavior principles, techniques of investigation, recent research literature and practice in the application of psychological knowledge relevant to a wide range of personnel management problems. Considers the impact of the EEO guidelines for personnel management in the areas of recruitment, selection, promotion, training and performance appraisal.
Prerequisite: 48.101, 160 or 40.346 and junior standing. (48.321 recommended.)
(Offered fall only.)

48.464 ADVANCED EXPERIMENTAL DESIGN

3 semester hours

Presents an advanced consideration of the planning, conduct and evaluation of research in the behavioral and biological sciences, employing parametric and non-parametric statistics. Emphasizes inferential statistics, design, analysis, interpretation and computer utilization.

Prerequisite: 48.101, 160, 281, 282 or consent of instructor.

48.466 INDEPENDENT STUDY IN PSYCHOLOGY

3 semester hours

Provides for 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.

48.476 PRINCIPLES OF BEHAVIOR MODIFICATION

3 semester hours

Studies the application of learning principles to change behavior in both individual and group settings.

Prerequisite: 6 credits in psychology.

(Offered spring only.)

48.497 PRACTICUM IN PSYCHOLOGY

3-15 semester hours

Provides application of psychological knowledge through study, observation and practice in a community, college or business setting. May be repeated for a total of 15 semester hours.

Prerequisite: Consent of instructor.



SOCIOLOGY AND SOCIAL WELFARE

FACULTY:

Professors James H. Huber, Chang Shub Roh; Associate Professors Christopher F. Armstrong, Leo G. Barrile, David E. Greenwald; Assistant Professors Thomas A. Bonomo, Charles W. Laudermlch, I. Sue Jackson (Chairperson), Dale L. Sultzbaugh, Anne K. Wilson.

SOCIOLOGY

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

Sociology major: 45.211, 260, 462, 466; 18 semester hours in sociology social welfare elected by the student in consultation with the adviser.

Criminal Justice Option: The option is designed for the student who is interested in a career in the field of criminal justice. Students will be exposed to the adult corrections, juvenile justice, law enforcement and penal systems.

Social Welfare Option: This option is designed for the student who is interested in a career in the social work field. Students interested in specializations within the field (i.e., child welfare, services to the aged, medical social work, criminal justice), can design the appropriate curriculum through their departmental adviser.

Sociology requirements: 45.211, 45.260, 45.462, 45.466

*Social Welfare Sequence: 45.133, 45.497, 45.334, 45.335, 45.337, 45.450, 45.470.01, 45.496.

COURSE DESCRIPTIONS

SOCIOLOGY AND SOCIAL WELFARE (Code 45)

*Courses within the Social Welfare sequence.

***45.133 INTRODUCTION TO SOCIAL WORK** **3 semester hours**

Provides an orientation to the profession of social work including an examination of historical and current social work processes, values and practices in various settings.

45.211 PRINCIPLES OF SOCIOLOGY **3 semester hours**

This course examines man as a social animal and how behavior is shaped by the social groups to which we belong and the social interaction that occurs within these groups. The course moves from how society is built up from basic norms and rules to large institutions of the economy and state. The course attempts to make students aware of the many social influences that make us human beings, the consequences of getting along in society and problems that evolve as society and its institutions develop.

45.213 CONTEMPORARY SOCIAL PROBLEMS **3 semester hours**

Examines some of the following urgent social issues: plant closings and unemployment, the impact of multinational corporations on the economy and the environment, mobility, aging, family problems-- sex roles, abuse, incest, divorce, alcohol and drug abuse, social change and disorganization, racism, sexism, employment discrimination, crime, alienation and poverty.

45.215 RACIAL AND NATIONAL MINORITY GROUPS **3 semester hours.**

Presents 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.

- 45.219 RELIGION AND SOCIETY** **3 semester hours**
Examines religion as a means by which people, as members of communities, order their lives and endow them with meaning. Topics include: ritual and belief systems, the social organization of religion and the relationship between religion and other parts of the social structure.
Prerequisite: 45.211.
- 45.231 MARRIAGE AND THE FAMILY** **3 semester hours**
Provides a sociological examination of the traditional and changing institutions of marriage and the family in contemporary society. Focuses on family and marital interaction, roles and interpersonal familial problems.
- 45.236 CHILD WELFARE** **3 semester hours**
Examines child welfare services, issues and the institutions which effect the social functioning of children.
- 45.242 JUVENILE DELINQUENCY** **3 semester hours**
Examines 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.
- 45.244 INTRODUCTION TO CRIMINAL JUSTICE**
Seeks to provide students with a comprehensive survey and basic understanding of the role and function of the criminal justice field. Attention is given to: crime and criminal law, law enforcement and the police, courts, corrections and juvenile justice.
- 45.260 BASIC SOCIAL STATISTICS** **3 semester hours**
Presents principles and techniques of statistical analysis used by sociologists and others in the social sciences: descriptive tables and graphs, measures of dispersion, significance tests, correlation and regression. Students collect and analyze data using computers. The emphasis is on understanding the concepts underlying statistical analysis in order to permit intelligent use and interpretation of statistics.
- 45.276 SOCIOLOGY OF SCIENCE** **3 semester hours**
Explores science as the organized activities of an occupational community. Examines the development of science as an institution, its social organization in modern society and its internal and external politics.
Prerequisite: 45.211.
- 45.318 SOCIAL STRATIFICATION** **3 semester hours**
Examines the role of social class in terms of its structure, function and persistence in any society. Examines classical theoretical statements and evaluates current American class relations in terms of status, power, authority and social mobility. Covers notable studies of the American class system and provides a close look at power relations and styles of life among the various American classes.
Prerequisite: 45.211.
- *45.334 SOCIAL WORK PROCESSES I (Social Casework)** **3 semester hours**
Examines a number of different orientations to working with individuals and families with an emphasis on the essential knowledge, values and interviewing skills for beginning social work practice.
Prerequisite: 45.211 and 133.
- *45.335 SOCIAL WELFARE SERVICES** **3 semester hours**
Provides an orientation to the different forces which interact in the development of policies and practices in public and private social welfare programs with specific scrutiny of public assistance and social security among others.
Prerequisite: 45.211 and 45.133. *(Offered fall only.)*
- *45.337 SOCIAL WORK PROCESSES II (Community Organization)** **3 semester hours**
Examines community organization practice as a methodology of the social work profession with respect to its relevant systems, theories, strategies and practice principles. The role and responsibility of the human service practitioner in the change process within the bureaucracy will be given special attention.

- 45.341 CRIMINOLOGY** **3 semester hours**
 Discusses the major sociological theories of crime and justice. Presents the scope of crime in the U.S. and other countries. Probes each major type of crime, namely, homicide, rape, white collar crime, political crime, organized crime, property crimes, drug crimes, prostitution, pornography and the law enforcement system.
Prerequisite: 45.211.
- 45.342 PENOLOGY** **3 semester hours**
 Penology studies the social rationales, methods and consequences of punishing and rehabilitating law-breakers, including: a social history of prisons, jails and punishment the interpersonal dynamics within the institution, the inmate social order, causes of riots, treatment programs and alternative models and policies.
Prerequisite: 45.211.
- 45.343 VICTIMOLOGY** **3 semester hours**
 Victimology examines the short term and long term effects of victimization on individuals and groups from such crimes as family violence, rape, street crime, business fraud, corporate negligence and political wrongdoings.
Prerequisite: 45.244.
- 45.345 MEDICAL SOCIOLOGY** **3 semester hours**
 This course facilitates the student's ability to understand, analyze and evaluate Sociological factors in relation to illness, medical behavior and health care systems.
Prerequisite: 45.211 or permission of professor.
- 45.400 SOCIOLOGY OF MASS COMMUNICATION** **3 semester hours**
 This course is an in-depth discussion of the cognitive and behavioral affects of mass media, especially television on audiences, the social structure of the communications industry, particularly its influence on media content and the political use of mass media. Students will critique the latest research articles in the field.
Prerequisites: 45.211 and junior status.
- 45.441 SOCIAL INDICATORS** **3 semester hours**
 Attempts 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. Emphasizes developing student understanding of social indicators and their use in social planning within all levels of society.
- 45.443 SOCIOLOGY OF DEVIANT BEHAVIOR** **3 semester hours**
 Evaluates the presence and function of deviance in society. Includes mental illness and various types of crime and stigmatized behavior. Examines how it is handled therapeutically and legally through institutionalization and treatment. Attempts to provide a broad theoretical perspective as well as concrete examples of deviance in any society. Examines current methods of rehabilitation and punishment.
Prerequisite: 45.211.
- *45.450 SOCIAL WORK PROCESSES III (Group Work)** **3 semester hours**
 Presents an analysis and application of concepts from small group decision making processes. Emphasis is placed on leadership skills and an understanding of group dynamics in a variety of small group situations and settings.
- 45.451 FAMILY COUNSELING** **3 semester hours**
 This course surveys the major theoretical models for family assessment and intervention. A working knowledge of rudimentary assessment and intervention skills for problem solving with families is acquired.
- 45.457 SOCIOLOGY OF COMMUNITY** **3 semester hours**
 Reviews and examines theories and research of communities with special emphasis on the system approach to understanding of the American community.
Prerequisite: 45.211.

45.462 SOCIOLOGICAL THEORY**3 semester hours**

This course examines the classical forms of social theory from the 19th century and their impact on the development of theory in the 20th century. Max Weber, Emile Durkheim and Karl Marx are studied particularly regarding their views on the social structure, social organization, the economy and the human condition and their influence on contemporary perspectives, namely, the conflict and functional approaches, the sociology of knowledge, phenomenological sociology and symbolic interactionism.

Prerequisite: 45.211.

45.465 ADVANCED METHODS OF RURAL-URBAN ANALYSIS**3 semester hours**

Presents an introduction to computer use for the social sciences (through use of SPSS). Emphasizes translating questions into data analysis and interpretation of statistical results.

Prerequisite: 45.460 or similar statistics course. (Offered spring only.)

45.466 SOCIAL RESEARCH**3 semester hours**

The design and construction of major methods and procedures used in social research. Special emphasis on survey research with practical application to a continuing student research project of the local community.

Prerequisites: 45.211, 45.460 or permission of professor. (Offered fall and spring only.)

45.467 POPULATION PROBLEMS**3 semester hours**

Studies human population, its major theories, distributions, composition, characteristics, changes and future developments of population and impacts of population problems on society as influenced by vital processes.

Prerequisite: 45.211.

45.468 SOCIAL SERVICE PLANNING**3 semester hours**

Provides an advanced consideration of the social context of the development of social policy, planning and implementation of social and/or human services at federal, state and local levels of organization. A critical analysis of the social effects of social policy, planning and services on people in a service-oriented post-industrial society.

Prerequisites: 45.211, permission of professor. (Offered summer only.)

45.470 SENIOR SEMINAR*3 semester hours**

Provides for individual research projects and reports within selected areas of interest such as the family, criminology, social services and ethnic minorities, etc.

Prerequisite: 18 hours of sociology/social work including 45.211, 45.260, and 45.466, and permission of the Department Chairperson. (For Seniors only.)

45.471 INDEPENDENT STUDY IN SOCIOLOGY**1-6 semester hours**

Allows the student to pursue individualized instruction in depth with the faculty member in a specific area of the field not covered in current courses.

Prerequisite: 45.211, 45.260, 45.462, 45.466 and permission of the instructor, department chairperson and the faculty committee on independent study. (See Section 7.5)

45.474 CONTEMPORARY ENVIRONMENTAL ISSUES**3 semester hours**

Examines 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.

45.477 COMMUNITY LAND USE PLANNING**3 semester hours**

Attempts to expose the student to the planning process and the theoretical perspectives relevant to community land use planning. Examines selected substantive planning problem areas in the local community. Students are expected to formulate, develop and present a community land use plan as the culmination of the course experience.

Prerequisite: 45.211. (Offered fall and summer only.)

45.478 INDUSTRIAL SOCIOLOGY**3 semester hours**

Presents a sociological examination of work and the milieu of the worker. Studies 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 within communities and society.

Prerequisite: 45.211. (Offered spring only.)

45.490 SOCIOLOGY OF AGING

3 semester hours

Studies aging, its major theoretical themes, patterns of living, socio-psychological and cultural consequences. Examines the contemporary issues, problems and programs of the aging.

Prerequisite: 45.211.

***45.496 INTERNSHIP PROGRAM**

1-15 semester hours

Designed primarily for the Junior or Senior working in a specific institutional field and/or College-approved, off- campus activities related to the student's chosen professional field.

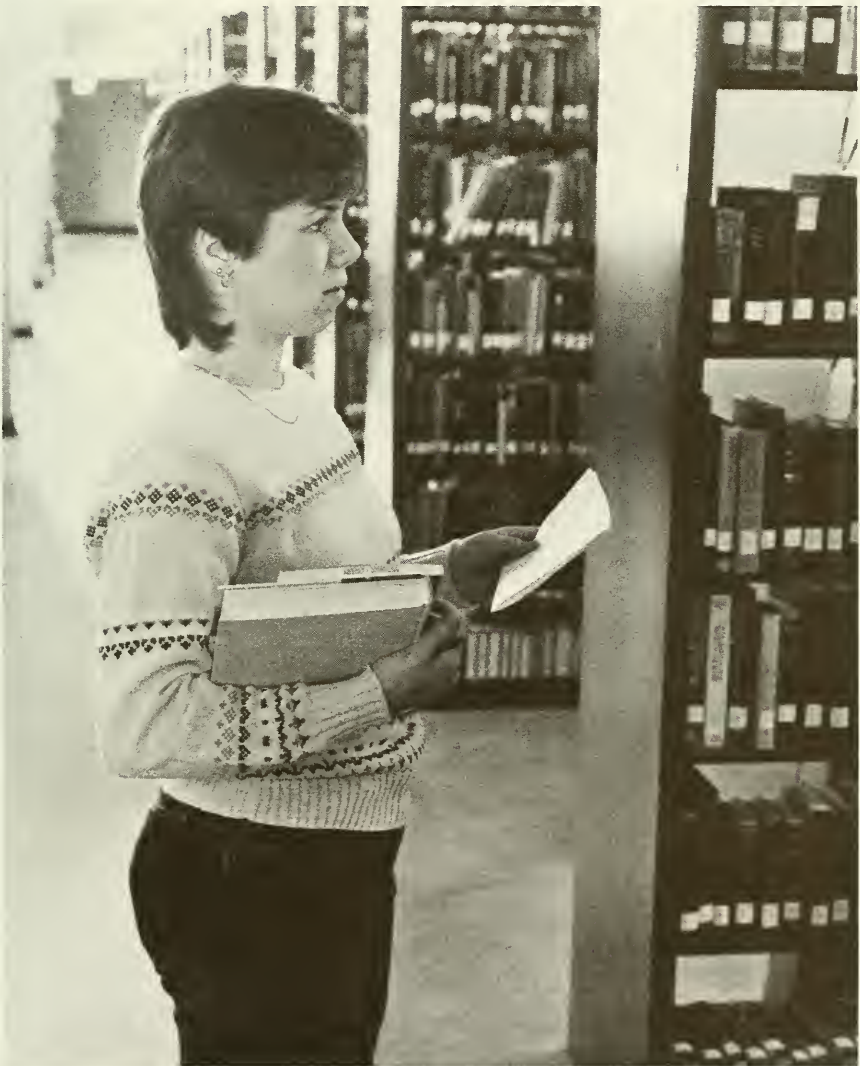
Prerequisites: Permission of the instructor and department chairperson.

***45.497 SOCIOLOGY FIELD WORK EXPERIENCE**

1-6 semester hours

Provides 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.

Prerequisites: 45.211, 133, and permission of the instructor and the department chairperson.





8. COLLEGE OF BUSINESS

8.1 GENERAL INFORMATION

The College of Business consists of the Departments of Accounting, Computer and Information Systems, Finance and Business Law, Marketing and Management, Business Education and Office Administration. The college offers curricula in business administration with five concentrations, computer and information science, business education with five options for certification and office administration.

The curriculum in business administration is designed to prepare the student for a beginning position in business; computer and information science provides for skills in applications systems and programming; in business education program leads to certification as a teacher of business subject and the curriculum in office administration prepares the student for the administration and management of a business office.

Students enrolled in other colleges within the university who wish to transfer to a business curriculum, must have completed a minimum of 15 semester hours of credit at Bloomsburg and have earned a cumulative quality point average of 2.75 or higher *to be eligible to apply*. Consideration for admission to the College of Business, however, is selective.

8.2 PROGRAMS WITH MAJOR SPECIALIZATION IN

THE COLLEGE OF BUSINESS

Program	Degree
BUSINESS ADMINISTRATION	B.S. in Bus. Adm.
Specialization:	
Accounting	
Economics	
Finance	
Management	
Marketing	
Computer and Information Systems (B.S. in C.I.S.)	
BUSINESS EDUCATION	B.S. in Ed.
Certification:	
Accounting and Typewriting	B.S. in Education.
Secretarial (Shorthand) and Typewriting	
Typewriting--required of all majors.	
Information Processing	
Marketing	
Office Administration	B.S. in Off. Adm.
Specialization	
Areas:	
Office Skills	
Marketing	
Management	
Accounting	
Computer Information Systems	
Finance	
Business Law	

BUSINESS ADMINISTRATION

FACULTY:

Accounting Department:

Professor James B. Creasy; Associate Professors Charles M. Bayler, Lester J. Dietterick, E. Burel Gum, Robert P. Yori (Acting Dean); Assistant Professors John E. Dennen, Terry Jones, Richard McClellan.

Computer and Information Systems Department:

Professor Frank S. Davis, Jr.; Associate Professors Harold Frey (Chairperson), Charles J. Hoppel; Assistant Professors Patricia Boyne, John E. Hartzel.

Finance and Business Law Department:

Professors Barbara E. Behr, Bernard C. Dill (Chairperson); Associate Professor David G. Heskell; Assistant Professor Andrew Emerson.

Marketing/Management Department:

Professors Alan D. Carey, Emory Rarig, Peter B. Venuto, Melvyn L. Woodward (Chairperson); Associate Professors Stephen S. Batory, Charles M. Chapman, Francis J. Gallagher, Howard J. Kinslinger, Donald S. Kline, Robert N. Watts, Jr; Assistant Professors Salim Qureshi, Anne H. Batory

Degree

The degree, Bachelor of Science in Business Administration (B.S. in Business Administration), is conferred upon successful completion of the Business Administration curriculum.

Objectives of the Business Administration Program

The curriculum in Business Administration develops specialized knowledge and skills applicable to entry into the business world and provides the opportunity to prepare for advanced studies in business. To achieve these aims, the curriculum is dedicated to those educational ideals that increase the student's understanding of business practices, develops specialized occupational skills and enhance analytical and scholarly development. The businessperson's role and the place and purpose of the business firm in society are matters for constant study and evaluation. A concern for personal development in the attributes of intellectual discipline and ethical values 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: Economics 40.211, 212, 346; Economics 40.246 or Mathematics 53.123; Mathematics 53.118; Accounting 91.220 or Accounting 91.221 for Accounting and CIS majors; Accounting 91.223; Information Processing 92.150; Management 93.344, 445, and 446; Finance 96.313; Marketing 97.310; Business Law I 98.331.

C. Specialization in one of the following areas:

ACCOUNTING

Accounting: 91.222, 91.321, 322, 324, 342, 348.
Business Law II: 98.332.

MANAGEMENT

Information Processing: 92.251 or 252;
Management: 93.345, 449, 93.---, and Marketing: 97.460, Business Law: 98.332 or 450; elective.

BUSINESS ECONOMICS

Economics: 40.311, 312, 313; 422 or 423, plus 3 credits of 40 prefix electives and 3 credits of Business Administration electives.

FINANCE

96.323, 343, 454 and six credits from 96.333, 413, 423, 463 and 473.

INFORMATION PROCESSING

92.252, 256, 351, 352 and six credits from 254, 350, 354, 358 or 456.

MARKETING

97.360, 370, 430, 440, 460, 490 and three credits of marketing elective.

D. Elective Courses to complete a minimum of 63 semester hours in business and economics: Elective courses are designated with a 91, 92, 93, 96, 97, 98 prefix for business courses and a 40 prefix for economics courses. Some additional courses are permitted as electives. These include the following: Speech, 25.307; Psychology, 48.452; History 42.223 (to be a substitute for 42.224 and 40.423) History, 42.472; Business, 90.101, 241, 332, 431, 432, 450. It should be noted that 90.101 will not be allowed for credit as a business elective once a student has completed 6 credits in Business Administration courses. In selecting an elective, the student is reminded to have the proper prerequisites and to avoid elected courses below that level for which the student has already been prepared in that subject field.

E. Free Electives: As required to meet the total 128 semester hours graduation requirement.

COMPUTER AND INFORMATION SYSTEMS

Degree

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

Students enrolled in other colleges within the university who wish to transfer to the CIS curriculum must have completed a minimum of 15 semester hours of credit at Bloomsburg and earned a cumulative quality point average of 2.75 or higher to be eligible to apply. Consideration for admission to the Computer and Information Systems Department, however, is selective.

Objectives

The first objective of the program is to provide a broad educational base for intelligent citizenship. The core courses required will 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 adviser, which will accomplish one or more of the following purposes:

- (1) Prepare the graduate for positions in the computer industry.
- (2) Provide specific marketable skills in business and scientific computing applications.
- (3) Prepare the graduate for further study in graduate programs in computer-related fields.

A. General Education (See Section 6.4)

B. Core Courses: Mathematics 53.177; two from the following: 53.118, 123, 125, 126 (the combination of 53.123 and 53.125 does not satisfy this requirement), and either 53.141 or 53.241; Economics 40.211; Accounting, 91.221 and 222; Information Processing 92.150; 252, 256, 350, and 351

C. Specialized Courses: Include 15 semester hours in restricted electives in Computer and Information Science courses chosen through consultation with an adviser.

D. Courses: Includes 12 semester hours from Business and selective mathematics courses chosen through consultation with an adviser.

E. Free Electives as required to meet the the total 128 semester hour graduation requirement.

BUSINESS EDUCATION

FACULTY:

Associate Professors Ellen M. Clemens, Nancy A. Dittman, James C. Kincaid, Margaret J. Long, Jack L. Meiss; Assistant Professors Janice C. Keil, John J. Olivo, Jr., (Chairperson).

Degree

The Bachelor of Science degree in Education (B.S. in Ed.) is conferred upon successful completion of the Business Education curriculum.

Objective

The curriculum in Business Education aims to develop specialized knowledge and skills applicable to securing teaching positions in the secondary schools and vocational- technical schools of the Commonwealth.

Admission

High school work in business subjects is not a prerequisite to entering this College of Business program. Students who are admitted as business education majors must apply for acceptance into teacher education upon the completion of 32 or more credits. 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 university, the Pennsylvania Department of Education issues an Instructional Level I certificate. Every certificate includes typewriting in addition to at least one other area of certification; no certificate is issued bearing only one certification area.

Curriculum Requirements

The curriculum in Business Education requires the successful completion of four sets of courses.

A. General Education: (See Section 6.4). Composition 20.101, Speech 25.103 or 104; Economics 40.211, 212; Sociology 45.211, 213, or Anthropology 46.200; Psychology 48.101; Mathematics 53.114; additional requirements include 3 semester hours in Values, Ethics and Responsible Decision Making; 3 semester hours in Survival, Fitness and Recreation Skills; 12 semester hours in Humanities; and 12 semester hours in Natural Sciences and Mathematics.

B. Business Core courses: General Business 90.101 and 90.333; Accounting 91.221 or 91.220; Information Processing 92.150; Office Procedures 94.202, 302, 401 and 403; Business Law 98.331. Restricted Business Electives--students must choose at least six semester hours from the following courses:

General Business 90.234, 90.241; Information Processing 92.251; Management 93.344; Office Procedures 94.221; Marketing 97.310; Business Law 98.332.

Students have four hours of free electives.

C. Business Education Certification Areas:The student chooses one of the following areas of certification in Business Education:

ACCOUNTING

Accounting 91.222, 321, 322; three additional semester hours from 91.324, 342, 348:

SECRETARIAL (SHORTHAND) AND TYPEWRITING

Office Procedures 94.221, 94.211, 212, 311.

TYPEWRITING--Required for all majors.

Office Procedures 94.202 and 94.302.

INFORMATION PROCESSING

Information Processing 92.251, 252; six additional semester hours from Information Processing electives;

MARKETING

General Business 90.241; Marketing 97.310; two additional semester hours from marketing 97.350, 97.360, 97.370 or 97.430.

D. Professional Education Requirements: The student must have completed the following courses to be considered for certification considered for certification as a teacher of business subjects:

Psychology 48.271 or Educational Studies and Services 60.391	3 semester hours
Educational Studies and Services 60.393	3 semester hours
Secondary Education 65.396	3 semester hours
General Business 90.406	5 semester hours
General Business 90.404	10 semester hours

NOTE: Business Electives: Any courses in departments (Codes) 90 through 98.

Free electives: Any course offered except developmental courses (01).

OFFICE ADMINISTRATION**Degree**

The degree of Bachelor of Science in Office Administration (B.S. O.A) is conferred upon successful completion of the Office Administration curriculum which is designed for those students interested in the administration and/or management of a business office. This program does not lead to certification as a business teacher.

Objective

The Office Administration curriculum aims to develop management and office support skills necessary to supervise the administrative, organizational and communicative functions of the business office. It provides the student with the planning organizing, staffing, directing and controlling of operations in the automated business office using modern decision-making tools.

Curriculum Requirements

The curriculum in Office Administration requires the successful completion of the following sets of courses.

A. General Education: (See Section 6.4) Composition 20.101, 201; Speech 25.103 or 104; Economics 40.211, 212; Sociology 45.211, 213, or Anthropology 46.200; Psychology 48.101. Additional requirements include 3 semester hours in quantitative; 3 semester hours in Values, Ethics and Responsible Decision Making; and 3 semester hours in Survival, Fitness and Recreation Skills; 12 semester hours in Humanities; 12 semester hours in Natural Sciences and Mathematics; and 12 semester hours in social/behavioral science required.

B. Office Administration Required Courses: General Business 90.101, 90.333, 90.432; Accounting 91.220 or 91.221 and 91.222, 91.223; Information Processing 92.150; Management 93.344, 93.449; Office Procedures 94.202, 94.221, 94.302, 94.401, 94.403; Marketing 97.310; Business Law 98.331, 98.332.

Restrictive Business Electives--students must choose 12 semester hours from the following courses:

General Business 90.234, 90.241; Information Processing 92.251; Management 93.345, 93.346; Office Procedures 94.211, 94.212, 94.311; Finance 96.313.

Area of Business Specialization

Students must choose six to nine semester hours in course work from the following specialized areas in business--Accounting, Business Law, Finance, Information Processing, Management or Marketing.

Students have five hours of free electives.

COURSE DESCRIPTIONS

General Business

(Code 90)

90.101 INTRODUCTION TO BUSINESS ORGANIZATIONS AND FINANCE

3 semester hours

Provides a study of business, its environment, organization, operation and inter-relationships with government and society. A business student will develop a unified framework for subsequent in-depth study of specific areas of business. A non-business student will develop an appreciation of the American Enterprise system--the functions of and issues facing modern business.

90.241 SALESMANSHIP

3 semester hours

Includes a study of the principles underlying the sales presentation; the interrelationships of the salesperson, marketplace, distribution of goods and services, customers served and the application of sales principles, practices and techniques.

90.234 BUSINESS MATHEMATICS

3 semester hours

Covers concepts and principles of fundamental business operations. Review of basic math, as it relates to marketing, banking, accounting, credit, insurance, taxes, selling, finance, investments and the interpretation of statistical data.

Not for Business majors who have earned six or more business credits.

90.333 BUSINESS COMMUNICATIONS

3 semester hours

Applies theories and principles of effective communication to the solving of common business problems. Psychological strategies will be used in the writing of memorandums, letters and reports.

90.404 PROFESSIONAL SEMESTER IN BUSINESS EDUCATION

10 semester hours

Includes orientation experiences to observe the operation of the school and specific classes as well as 16 weeks of participatory teaching experiences correlated with classroom studies under full-time supervision.

Fall semester: Bloomsburg area; spring semester: Allentown area. Must be scheduled concurrently with Clinical Studies in Business Education 90.406.

90.406 CLINICAL STUDIES IN BUSINESS EDUCATION

5 semester hours

Presents seminars on principles of education for Business teachers, methods of teaching business subjects, strategies and problems of classroom teaching. Classroom discussions are closely correlated with the experiences of the Professional Semester in Business Education 90.404.

90.431 INDEPENDENT STUDY IN BUSINESS

1-3 semester hours

Open to Seniors only. Topic and outline of project must be approved by the Dean and the Chairperson of their department.

90.432 INTERNSHIP IN BUSINESS

1-6 semester hours

Provides the student with opportunities to acquire meaningful experiences in practical work situations in office administration, accounting, management, finance, marketing, CIS or related areas.

Prerequisite: Approval by department chairperson; junior or senior standing; and in business administration areas, QPA of 2.75 or higher.

90.460 BUSINESS AND OFFICE WORKSHOP **1-3 semester hours**
 Addresses those educational ideas and experiences that encourage support and guide participants to acquire an increased awareness and understanding of the accumulated knowledge pertaining to the development and improvement of business skills, the enhancement of business and office education as a profession and the determination of the business and office personnel's responsibility and role in the business world.

ACCOUNTING
(Code 91)

90.460 BUSINESS AND EDUCATION WORKSHOP **1-3 semester hours**
 Addresses those educational ideas and experiences that encourage, support and guide participants to acquire an increased understanding of the accumulated knowledge pertaining to the development of business skills, the enhancement of business education as a profession and the determination of the business and office personnel's responsibility and role in the business world.

91.220 FINANCIAL ACCOUNTING **3 semester hours**
 Seeks to familiarize students with a basic understanding of the generally accepted accounting principles as they affect management.
(Non-accounting majors only.)

91.221 PRINCIPLES OF ACCOUNTING I **3 semester hours**
 Presents 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 semester hours**
 Develops further the accounting cycle; recording, summarizing and interpreting financial data for partnerships and corporations; development of an understanding of the voucher system.
Prerequisite: 91.221.

91.223 MANAGERIAL ACCOUNTING **3 semester hours**
 Presents profit planning, cost behavior, budgeting, decision making, responsibility accounting, division performance measurement, control and evaluation of cost centers, quantitative methods, statement of changes in financial position and analysis of financial statements.
Prerequisite: 91.220 or 222.

91.321 INTERMEDIATE ACCOUNTING I **3 semester hours**
 Outlines the preparation of financial accounting statements, with an emphasis on accounting standards regarding present value concepts, cash, temporary investments, receivables, inventories, property, plant, equipment, intangibles and current liabilities.
Prerequisite: 91.222.

91.322 INTERMEDIATE ACCOUNTING II **3 semester hours**
 Presents standards of good accounting practice with emphasis on non-current items; provides solutions and discussion of various contemporary accounting problems; detailed analysis of major financial statements of business organizations.
Prerequisite: 91.321.

91.324 FEDERAL TAX ACCOUNTING **3 semester hours**
 Presents procedures in accounting as dictated by federal tax laws governing the preparation of federal income tax returns for individuals and small businesses.
Prerequisite: 91.222.

91.342 AUDITING THEORY AND PROCEDURE **3 semester hours**
 Outlines 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: 91.322, 92.150, and 40.346.

91.348 COST ACCOUNTING **3 semester hours**
 Provides 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.

91.424 STATE AND FEDERAL TAX PROBLEMS **3 semester hours**

Assigns group and individual projects selected from the following areas of advanced tax accounting; partnerships and corporations, Pennsylvania corporate taxes, estates and trusts, reporting to governmental agencies. Includes, lectures, discussion of issues and practice in the solution of problems.

Prerequisite: 91.324.

91.430 ADVANCED ACCOUNTING I **3 semester hours**

Applies accounting principles to special problems in the consolidation and merger of business enterprises. Includes consideration of the basis for such combinations; consolidated statements at date of acquisition, as well as at subsequent dates; and foreign branches and subsidiaries.

Prerequisite: 91.322.

91.431 ADVANCED ACCOUNTING II **3 semester hours**

Applies accounting principles of special problems found in fiduciary relationships, governmental and institutional units and actuarial science. Emphasizes bankruptcy, estates and trusts, government funds and nonprofit service organizations.

Prerequisite: 91.322.

91.448 ADVANCED COST ACCOUNTING **3 semester hours**

A continuation of 91.348 concentrating on process cost, standard cost and budgets. Emphasis is placed on methods used to analyze and interpret cost data.

Prerequisite: 91.348.

91.449 CPA PROBLEMS **3 semester hours**

Addresses the application of procedures for the solving of a cross-section of complex accounting problems and the discussion of theory and practice.

Prerequisite: 91.324, 342, and 348 and senior standing.

COMPUTER AND INFORMATION SYSTEMS

(Code 92)

92.150 INTRODUCTION TO COMPUTER AND INFORMATION SCIENCE **3 semester hours**

Introduces the use of the computer for problem solving and processing of information. Includes hardware, programming concepts, systems, commercial application and data communications. "Hands on" experience with basic is required through the use of interactive time-sharing terminals and microcomputers.

92.251 MINI/MICRO PROGRAMMING SYSTEMS **3 semester hours**

Presents a survey of the minicomputer and microcomputer capability available to the small business. It focuses on business applications and system design considerations applicable to Mini/Micro Programming Systems. Programming experiences appropriate to the MINI/MICRO environment are with an emphasis on the basic language.

Prerequisite: 92.150.

92.252 BUSINESS ORIENTED PROGRAMMING **3 semester hours**

Familiarizes the student with the COBOL language and seeks 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: 53.175.

92.254 MANAGEMENT INFORMATION SYSTEMS **3 semester hours**

Uses computer-based information systems to provide information for effective decision-making. Also presents data base concept data entry, operator-machine interaction, data retrieval concepts.

Prerequisite: 92.150 and 91.220 or 92.221.

92.256 DATA AND INFORMATION STRUCTURES **3 semester hours**

Studies logical and physical operations in applications with character strings, linked lists, graphs and trees emphasizing techniques and mechanics of programming using a high-level language. Includes a study of file structure and data base concepts.

Prerequisite: 92.252 or 53.271.

- 92.350 ANALYTICAL COMPUTING CONCEPTS** **3 semester hours**
 Presents a detailed development of data representation and instruction word generation as used in low-level languages. Attempts to develop a further understanding of the computer including registers, storage and the processor. Object code analysis through dumps are explored with actual "hands on" programming experiences using the C language and assembler.
Prerequisite: 92.256.
- 92.351 SYSTEMS ANALYSIS AND DESIGN** **3 semester hours**
 Delineates 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: 92.256.
- 92.352 ADVANCED PROGRAMMING** **3 semester hours**
 Presents 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: 92.256.
- 92.354 DATA BASE PROCESSING SYSTEMS** **3 semester hours**
 Details and examines database terminology, organization and models. The analysis, design and administration of a CODASYL compatible database are explored through some actual applicable programming experiences.
Prerequisite: 92.351 and 92.352.
- 92.356 OPERATING SYSTEMS** **3 semester hours**
 Presents an overview look at operating systems to include real and virtual operating systems and communications software and techniques. Includes diagnostic facilities, utility routines and system commands. A detailed look at Unix will be provided.
Prerequisite: 92.350.
- 92.358 DATA COMMUNICATION SYSTEMS** **3 semester hours**
 Data communications terminology, technology and the functional characteristics of communications hardware and software shall be detailed and explored. Systems and Programming considerations as related to the commercial environment shall be emphasized.
Prerequisite: 92.350.
- 92.456 MANAGERIAL COMPUTER APPLICATIONS** **3 semester hours**
 Provides practical experience in the analysis of business problems through advanced techniques and concepts of programming and system analysis with major emphasis on record keeping control and management information systems. Students are required to present a systems proposal.
Prerequisite: 92.352 and 92.351.

MANAGEMENT (Code 93)

- 93.344 PRINCIPLES OF MANAGEMENT** **3 semester hours**
 Outlines 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 are presented.
Prerequisite: 40.212.
- 93.345 PERSONNEL MANAGEMENT** **3 semester hours**
 Presents policies and current practices in the recruitment, selection, training-development, evaluation and compensation of employees in an organizational setting. These are examined within the context of internal and external environmental constraints with special attention devoted to government regulations.
- 93.346 LABOR AND INDUSTRIAL RELATIONS** **3 semester hours**
 Describes the administration of the relationship between management and the labor force, both where the relationship is governed by a collective bargaining agreement and where it is not. Includes the development of the social and legal status of trade unions, organizing, negotiations, strikes, the grievance procedure and union security.

- 93.348 OPERATIONS MANAGEMENT** **3 semester hours**
 Introduces operation problems encountered in manufacturing and service industries.
Prerequisite: 93.344.
- 93.445 MANAGERIAL COMMUNICATIONS** **3 semester hours**
 Studies the process and structure of communication in the business organization and factors affecting the flow of information. Emphasizes 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.
Prerequisite: senior standing.
- 93.446 BUSINESS POLICIES AND STRATEGIES** **3 semester hours**
 Studies the process by which management set goals, objectives, policies and procedures.
Prerequisite: 93.344, 96.313, 97.310 and senior standing.
- 93.449 ORGANIZATIONAL BEHAVIOR** **3 semester hours**
 Focuses on small group, interpersonal, personal and intergroup processes in organizations. Integrates experiential case and traditional methods of instruction.
Prerequisite: 93.344.
- 93.457 BUSINESS AND SOCIETY** **3 semester hours**
 Relates the American business system and individual business firms to the cultural and economic environment. It examines the powers and responsibilities of the business system as a major institution within society as well as individual business firms in the same society. The course addresses both social responsiveness and ethics.
Prerequisite: 93.344, 96.313, 97.310 and senior standing.

OFFICE PROCEDURES
 (Code 94)

- 94.200 KEYBOARDING FOR INFORMATION PROCESSING** **1 semester hour**
 Development in the use of alphabetic, numeric and service mechanics keyboarding skills for processing information.
- 94.201 KEYBOARDING APPLICATIONS** **3 semester hours**
 Improvement of keyboarding skills for processing information. Includes refinement of stroking techniques and control; preparation of personal and business letters, reports and tables; use of correction techniques. Not applicable toward Business Education or Office Administration programs.
Prerequisite: 94.200 or equivalent.
- 94.202 ELECTRONIC DOCUMENT PREPARATION** **3 semester hours**
 Develop skills in document preparation utilizing electronic equipment and text editing techniques.
Prerequisite: 94.201 or equivalent.
- 94.211 SHORTHAND I** **3 semester hours**
 Introduces the principles of Gregg Shorthand which include the alphabetical strokes, brief forms and phrases. Emphasizes the development of accurate shorthand penmanship, the building of the student's shorthand vocabulary and dictation at speeds of 50-80 wpm.
- 94.212 SHORTHAND II** **3 semester hours**
 Reviews and reinforces the principles of Gregg Shorthand theory; emphasizes the non-shorthand elements such as punctuation, capitalization, hyphenation, spelling and grammar; emphasizes the development of the student's ability to transcribe shorthand notes and take dictation at speeds from 70-100 wpm.
Prerequisite: 94.211 or equivalent.
- 94.221 CONCEPTS OF OFFICE AUTOMATION** **3 semester hours**
 A study of the processing of information in contemporary offices including word origination, distribution, office equipment, workflow, skill requirements, personnel needs and supervisory and managerial responsibilities. A practical approach to today's office environment.
 Provides for the students with diverse typewriting backgrounds.
Prerequisite: 94.201 or equivalent.

- 94.303 TYPEWRITING WORKSHOP** 3 semester hours
Provides for the students with diverse typewriting backgrounds.
Prerequisite: 94.201 or equivalent.
- 94.302 BUSINESS DOCUMENT GENERATION** 3 semester hours
Provides simulations of advanced office tasks using electronic text editing equipment to generate business documents.
Prerequisite: 94.202
- 94.311 SHORTHAND III** 3 semester hours
Further develops the student's shorthand vocabulary through intensive dictation at speeds from 90-120 wpm and transcription practice with speed and accuracy stressed.
Prerequisite: 94.202 and 94.212.
- 94.401 RECORDS MANAGEMENT AND OFFICE MACHINES** 3 semester hours
Presents the management of business records including micrographics; filing methods and systems; use of office calculators, dictation/transcribing equipment and word processing equipment.
Prerequisite: 94.202 and junior or senior standing.
- 94.403 OFFICE OPERATIONS AND MANAGEMENT** 3 semester hours
Presents office-related activities, the various aspects of office occupations, the realities of the workplace, the aspirations, needs and perceptions of the employee in relation to job opportunities; identifies the perception of self with the work scene and emphasizes decision-making and human relations.
Prerequisite: junior or senior standing.
- 94.412 ADVANCED SHORTHAND WORKSHOP** 3 semester hours
Introduces different shorthand systems-machine, symbol and non-symbol. Seeks to develop a degree of proficiency in the use of different shorthand systems through dictation and transcription.
Prerequisite: 94.301 or 302. (Offered summers only).
This course is not applicable toward shorthand certification.
- FINANCE**
(Code 96)
- 96.313 BUSINESS FINANCE** 3 semester hours
Studies financial problems in the areas of working capital management, capital budgeting, cost of capital, financial structure, financing sources, asset valuation, and dividend policy.
Prerequisite: 91.220 or 222; 40.212.
- 96.323 MONEY, CAPITAL MARKETS AND FINANCIAL INSTITUTIONS** 3 semester hours
Studies the markets for short-term and long-term sources of funds, as well as the study of major credit institutions and the principles underlying their activities and operations.
Prerequisites: 96.313.
- 96.333 COMMERCIAL BANK OPERATIONS (MANAGEMENT)** 3 semester hours
Covers fundamental principles of bank operations. Includes a survey of various bank functions such as accounting, trust department, lending operations, international financial services, asset, public service and liability management, *Prerequisite: 96.313.*
- 96.343 INVESTMENT MANAGEMENT** 3 semester hours
Outlines principles of security investments: descriptions of security investments, investment planning, security valuation, portfolio strategy and security markets.
Prerequisite: 96.313.
- 96.413 INTERNATIONAL FINANCE** 3 semester hours
Studies the principles and practices relevant to understanding the nature of international finance, its problems and its institutions. Discussion will center on sources and instruments of international export and import financing, exchange-rates, balance-of-payments and governmental regulations and policies, financial management as well as accounting for international transactions.
Prerequisite: 96.313.

- 96.423 SECURITY ANALYSIS AND PORTFOLIO THEORY** **3 semester hours**
 Analysis in detail of the major elements related to determining the earnings and risk potential of securities and the study of the underlying principles inherent to portfolio construction.
Prerequisite: 96.343.
- 96.454 FINANCIAL MANAGEMENT DECISIONS** **3 semester hours**
 Studies business financial problems and the development of financial decision-making tools and practices as used in the decision-making role of the financial manager.
Prerequisite: 96.313.
- 96.463 SEMINAR IN FINANCE** **3 semester hours**
 Explores a wide range of topics in the finance area. Designed primarily for the senior finance major.
Prerequisite: 96.313 and 343.
- 96.473 SEMINAR IN INVESTMENTS** **3 semester hours**
 Examines a wide variety of topics in the field of investment management. Designed primarily for the senior finance major.
Prerequisite: 96.313 and 343.

MARKETING (Code 97)

- 97.310 MARKETING: PRINCIPLES AND PRACTICES** **3 semester hours**
 Surveys the fundamental features of contemporary marketing systems and the planning required to make available satisfying goods and services to customers at a profit. Explains the role of marketing in society and the institutions which compose the market system. Describes components of the marketing mix-product planning, distribution, pricing and promotion.
Prerequisite: Economics 40.212.
- 97.350 RETAIL MANAGEMENT CONCEPTS** **3 semester hours**
 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: Economics 40.212.
- 97.360 ADVERTISING MANAGEMENT:
ORGANIZATION AND PLANNING** **3 semester hours**
 Considers advertising as a marketing/promotional mix component and tool. Presents advertising strategy and copy media selection, budgeting, advertising research and relevant issues including social, legal and ethical concerns.
Prerequisite: 97.310.
- 97.370 SALES MANAGEMENT** **3 semester hours**
 Studies the personal selling element of the marketing/ promotional program 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 which include designing intelligence systems, forecasting and establishing sales territories. Special consideration is given to sales management's inputs and integration with marketing management.
Prerequisite: 97.310.
- 97.410 INTERNATIONAL MARKETING MANAGEMENT** **3 semester hours**
 Applies the managerial process to the development of international marketing programs. Emphasizes the development and determination of objectives and methods of organization including the execution of research, advertising and distribution activities. Considers special problems of adopting marketing principles to fit conditions in different countries. Selected cases and readings.
Prerequisite: 97.310.
- 97.430 CONSUMER BEHAVIOR** **3 semester hours**
 Analyzes the role of the consumer as the ultimate buyer of the product and 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. Reviews selected cases.
Prerequisite: 97.310.

97.440 MARKETING RESEARCH**3 semester hours**

Develops the skills of the scientific marketing research procedure (problem definition, research design, data collection, analysis and interpretation). Applies recent developments in marketing information systems to product planning, advertising research, consumer and competitive analysis.

Prerequisite: 97.310 and 40.346.

97.460 MARKETING MANAGEMENT**3 semester hours**

Presents an advanced study of the marketing function and marketing programs from the systems and managerial viewpoint. Applies analytic, communicative, and problem-solving skills to evaluation and creative planning in the marketing environment. Uses business marketing cases as a vehicle for developing the marketing executive's abilities.

Prerequisite: 97.310.

97.490 CONTEMPORARY PROBLEMS/ISSUES IN MARKETING**3 semester hours**

Explores major issues, trends and problems characterizing the current marketing scene. Encourages students to do extensive reading in current marketing and other related literature. Theoretical, environmental, research and trade off issues in marketing are assessed. Case study, group projects and group dynamics are utilized.

Prerequisite: Six credits in marketing and senior standing.

BUSINESS LAW**(Code 98)****98.331 BUSINESS LAW I****3 semester hours**

Introduces legal rights and liabilities, sources of law and the judicial system, principles of law applicable to business transactions with particular reference to contracts, property and sales.

98.332 BUSINESS LAW II**3 semester hours**

Presents principles of law as they pertain to commercial paper, guaranty and surety contracts, insurance, principal and agency relationships as well as creditors rights.

Prerequisite: 98.331.

98.450 LEGAL ENVIRONMENT OF BUSINESS**3 semester hours**

Discuss the impact of government administrative, legislative and judicial regulation on business activity at the firm, industry and market levels.

Prerequisite: 98.331, 40.212.





9. COLLEGE OF PROFESSIONAL STUDIES

9.01 ORGANIZATION AND FUNCTIONS

The College of Professional Studies administers curricula in teacher education, nursing and allied health sciences and offers courses in elementary education, early childhood education, educational foundations, secondary education, special education, communication disorders, pre-professional studies, reading and nursing.

9.02 DEGREE PROGRAMS WITHIN THE COLLEGE OF PROFESSIONAL STUDIES

SCHOOL OF EDUCATION

Program	Degree
Communication Disorders	B.S. in Ed.
Early Childhood Education	B.S. in Ed.
Elementary Education	B.S. in Ed.
Intepeter Training	B.S.
Secondary Education	B.S. in Ed.
<i>Biology</i>	<i>General Science</i>
<i>Chemistry</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.

SCHOOL OF HEALTH SCIENCES

Program	Degree
Dental Hygiene	B.S. Ed.
Health Services Associate	A.S.
Medical Technology	B.S.
Nursing	B.S.N.
Preparatory Curricula:	
Physical Therapy	
Occupational Therapy	
Cytotechnology	
Radiologic Technology	B.S.

9.03 SCHOOL OF EDUCATION

Scope and Purpose of Teacher Education

Programs are offered for preparation of teachers for early childhood centers and elementary schools, academic subjects in secondary schools, special education, communication disorders and business education. The business education program is administered by the College of Business; the other teacher education programs are administered in departments of the College of Professional Studies.

The teacher education program at Bloomsburg University is committed to improving the field of education through a comprehensive program which recognizes its unique contribution to society, both as a reflection of that society and as an agent for

the improvement of society. To meet this obligation, the programs draw upon the knowledge and understanding of general as well as professional education. It strives for a blend in preparing a person to fulfill a role in society as an informed, inquiring and skilled professional.

More specifically, the teacher education programs provide:

The basic academic preparation for persons to acquire a depth and breadth of knowledge in both general and specialized studies;

Basic training to insure mastery of the specific skills necessary for competent functioning as a professional;

An opportunity for further enrichment within the individual's area of professional competence through a regular program of speakers, seminars and related activities;

Human and physical resources necessary to assist in the educational development and growth of the community served by the university; and

The means for the advancement of knowledge through research in specific areas of education.

Bloomsburg University is committed to the preparation of beginning teachers of the highest quality. In pursuit of that goal, the School of Education subscribes to and endorses the philosophic statement as developed by the American Association of Colleges for Teacher Education as a guide to the development and operation of all of its teacher education programs.

Generic Role Competencies

The teacher education faculty believe that for successful teaching to occur, the teacher, as a professional decision maker, must perform effectively in a number of different roles. The teacher must also command functional knowledge in appropriate content area(s) as well as in cognate disciplines with direct or related significance for the act of teaching.

Six generic role competencies and 15 related cognate strands have been identified as central to the preparation of candidates in teacher education programs at Bloomsburg University.

ROLE COMPETENCIES

- Assessing and Diagnosing
- Planning
- Instructing

- Communicating and Interacting
- Managing
- Documenting and Evaluating

COGNATE STRANDS

- Curriculum Theory
- Educational Anthropology
- Educational History
- Educational Law
- Educational Measurement and Evaluation
- Educational Organization and Administration
- Educational Philosophy
- Instructional Theory

- Educational Psychology
- Educational Research
- Educational Sociology
- Educational Technology
- Group Dynamics
- Human Development and Exceptionality
- Knowledge in one or more content areas

Accreditation of Teacher Education

Bloomsburg 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. The Speech, Hearing and Language Clinic is certified by the Professional Services Board of the American Speech, Hearing and Language Association.

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 appeal procedure for considering the problems of certification candidates can be found under Academic Grievances (Section 3.11.)

The initial certificate is designated as Instructional Level I. It is valid for six years. A Level I certificate is not subject to renewal beyond a total of six years after the individual begins teaching. A permanent Level II certificate is issued upon completion of three years of successful teaching and experience under a Level I certificate and the completion of a minimum of 24 semester hours of post-baccalaureate course work.

The programs offered for Level I certification are:

Early Childhood Education(Pre-School through grade 3).

Elementary Education(Kindergarten through grade 6).

Business Education -Accounting, Secretarial, Comprehensive (accounting and shorthand), Information Processing and Marketing.

Secondary Education -Biology, Chemistry, Communication, Earth Science, English, French, General Science, Mathematics, Physics, Social Studies, Spanish.

Special Education-Mentally and/or Physically Handicapped.

Communication Disorders-(Speech Correction or Hearing Impaired.)

Public School Dental Hygienist

Interstate Certificate Agreements

Pennsylvania cooperates in *Interstate Agreements on Qualifications for Educational Personnel* which provides that holders of Pennsylvania certificates are eligible (subject to special provisions) for certificates in the following states:

ALABAMA	MARYLAND	OHIO
ALASKA	MASSACHUSETTS	OKLAHOMA
CALIFORNIA	MINNESOTA	RHODE ISLAND
DELAWARE	MONTANA	SOUTH CAROLINA
DISTRICT OF COLUMBIA	NEBRASKA	SOUTH DAKOTA
HAWAII	NEW HAMPSHIRE	UTAH
IDAHO	NEW JERSEY	VERMONT
INDIANA	NEW MEXICO	VIRGINIA
KANSAS	NORTH CAROLINA	WASHINGTON
KENTUCKY		

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 pursue teacher education curricula enroll initially in the College 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 completed a field experience intended to help applicants to assess their decision. Scholarship and pertinent personal attributes are weighed in determining admission to teacher education. These criteria reflect the responsibility of the university whose recommendation is the basis for issuing a teacher's certificate. If students initially enrolled in the College

of Professional Studies are not admitted to teacher education, they may apply for transfer to other university programs.

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 university, he/she may transfer to other university programs. The student who wishes to be reinstated in teacher education must reapply for admission.

Field Experience

Students in teacher education are required to engage in the field experiences during which they work in and observe the educational process in the schools. It is intended that these experiences will help the students decide whether they wish to follow careers in teaching. Participants are exposed to many aspects of teaching and to the operation of the schools, thus providing experience that should increase the relevancy of course work in professional education.

Field experiences, in addition to student teaching, are a part of courses in professional education. These include field trips, observations, micro-teaching and assisting teachers in school settings.

Student Teaching

Teacher education culminates in student teaching for a semester in public or private schools.

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 based on the availability of qualified cooperating teachers in their subject area and the willingness of schools with programs approved by the university. Students should be prepared to accept assignments in any of the student teaching centers.

The student teaching semester is divided into two equal periods in order to provide an opportunity for students to teach at two grade levels of education and frequently in two socio-economic environments.

Because of constantly changing educational and socio-economic circumstances, flexibility of format is maintained in the student teaching program.

Student Teaching Centers

Bloomsburg selects its student teaching centers and cooperating teachers in urban, suburban and rural areas. Students in elementary and secondary education may be assigned to central Pennsylvania, to suburban Philadelphia or to inner-city locations. 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 Pennsylvania and nearby states.

It may be possible for students in teacher education programs to be assigned to do their student teaching in one of the abroad international centers with which Bloomsburg cooperates: Quito, Ecuador; Recife, Brazil; or Liverpool, England and other locations by arrangement. Further information about this program may be obtained in the Office of International Education.

COMMUNICATION DISORDERS

(Department of Communication Disorders and Special Education)

FACULTY:

Professors Robert J. Kruse, Gerald W. Powers (assistant chairperson); Associate Professors Ronald R. Champoux, G. Donald Miller; Assistant Professors Richard M. Angelo, Judith M. Hirshfeld, Gary E. Mowl, Samuel B. Slike, Julia M. Weitz; Clinical Director and Assistant Professor, 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 patrons who are handicapped in speech, hearing and language. The objective for the interpreter training curriculum is to prepare individuals to facilitate communication of deaf and hearing impaired persons with hearing persons in educational, medical, legal, theatrical and social situations.

Upon successful completion of the curriculum and recommendation by the university, 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, Hearing and Language 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 university 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 in 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 admission period.

Selection within the quota for each admission period is determined by the quality point average in the courses that have been taken in 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 admission period is predetermined by the department in the light of the projected capacity of clinical facilities. Students who are not admitted may reapply at a subsequent admission 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, special or early childhood education. Students who elect this sequence may seek advisement from the faculty 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 university, 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.

Students in the curriculum of Interpreter Training have three exit options which are Bachelor's of Science (B.S.), Associate of Arts (A.A.S.), and certificate of completion for those already holding a degree. Requirements for each option differ. The courses in the curriculum are designed to provide the students with training in sign language and interpreting. Admission into the curriculum is selective. Students must pass the competency entrance examination before acceptance into the program. To take the exam, students must have completed the pre-interpreter training requirements which are Manual Communication I and II and American Sign Language I or equivalent coursework or skill. Upon completion of the program, the students shall be eligible to be evaluated for certification by the Registry of Interpreters for the Deaf (RID).

CURRICULUM IN COMMUNICATION DISORDERS (Robert Kruse, Curriculum Coordinator)

A. General Education: (See Section 6.4)

B. Professional and related requirements: Communication Disorders: 74.152, 240, 251, 252, 253, 276, 351, 352, 376, 402, 460, 461, 467; Biology: 50.366. Twenty (20) 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 and other courses approved by the adviser.

C. Elective Courses: the minimum graduate requirement.

D. Graduate Program: (See Graduate Bulletin)

COURSE DESCRIPTIONS

COMMUNICATION DISORDERS (Code 74)

74.152 INTRODUCTION TO COMMUNICATION DISORDERS **3 semester hours**

Presents 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 and typical problems of children and adults.

74.240 NORMAL LANGUAGE ACQUISITION **3 semester hours**

Focuses upon current information and theory regarding normal language development.
Prerequisite: 74.252 and admission to the department.

74.251 PHONETICS **3 semester hours**

Studies 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. Provides a base of knowledge for the diagnosis and treatment of phonemic and phonological disorders of communication.

Prerequisite: 74.252, 253.

74.252 SPEECH PATHOLOGY I **3 semester hours**

Studies the neurophysiological bases of language and speech as fundamental to the understanding of pathologies of language and speech.

- 74.253 SPEECH PATHOLOGY II** **3 semester hours**
 Studies in greater depth speech and language pathologies. Research findings are explored.
- 74.351 CLINICAL METHODS IN COMMUNICATION DISORDERS** **3 semester hours**
 Discusses materials and methods applicable to clinical practicum. Provides opportunities for observing demonstrations by the staff. 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.
- 74.352 CLINICAL PRACTICUM: COMMUNICATION DISORDERS** **6 semester hours**
 Allows students to engage in supervised clinical work in the Speech, Hearing and Language Clinic or related facilities and gives them increasing responsibility and experience with cases of greater complexity.
Prerequisite: 74.351, 467.
- 74.390 DIRECTED PROJECT IN COMMUNICATION DISORDERS** **3 semester hours**
 Gives students 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.
- 74.400 COMMUNICATION DISORDERS WORKSHOP** **3-6 semester hours**
 Specialized study of communicately handicapped persons, new technology in the field of communication disorders.
- 74.402 CLINICAL FIELD EXPERIENCE** **12 semester hours**
 Provides a full-semester program of 30 hours per week of supervised practicum in a field experience 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.
- 74.460 PSYCHOLINGUISTICS** **3 semester hours**
 Presents 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: 74.251.
- 74.461 CLINICAL PROBLEMS IN COMMUNICATION DISORDERS** **3 semester hours**
 Practical consideration 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 semester hours**
 Provides clinical experience in dealing with more complex disorders. Demonstrates differential diagnostic and therapeutic procedures for use in cases with cerebral palsy, aphasia, auditory impairments, cleft palate and stuttering. Case studies and research.
Prerequisites: 74.351, 352.
- 74.467 APPLIED BEHAVIOR ANALYSIS IN SPEECH AND LANGUAGE THERAPY** **3 semester hours**
 Applies the psychology of learning to communicative behavior and clinical problems. Presents current educational and therapeutic trends and practices.
Prerequisites: 74.351 or concurrent registration.
- 74.480 INDEPENDENT STUDY AND RESEARCH** **1-3 semester hours**
 Permits students to work under faculty guidance when particular needs cannot be met by registration in regularly scheduled courses. Learning experiences may include library research or creative academic projects. Credit is determined by the nature and scope of the project undertaken.

CURRICULUM IN EDUCATION OF THE HEARING IMPAIRED

(Mr. Samuel Slike, Curriculum Coordinator)

(Ms. Judith M. Hirshfeld, Undergraduate Area of Concentration Adviser)

A. General Education: (See Section 6.4)

B. Professional and related requirements: Teacher Education Major

C. (Area of Concentration): 74.152 (Fall- freshmen), 201 (Fall-freshmen), 276 (Fall-sophomore), 376 (Spring-sophomore), 205 (Spring-junior), 251 (Spring-junior).
Electives: 74.469, 153.

D. Graduate Programs: See Graduate Bulletin.

COMMUNICATION DISORDERS (Code 74)

74.152 INTRODUCTION TO COMMUNICATION DISORDERS 3 semester hours

Presents 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 and typical problems of children and adults.

74.153 INTRODUCTION TO MANUAL COMMUNICATION WITH THE DEAF 3 semester hours

Studies the basic sign language vocabulary and fingerspelling techniques used in communicating with hearing impaired individuals. Emphasis is placed on developing proper receptive process to occur.

May be taken during any year.

74.201 HISTORY, EDUCATION AND GUIDANCE OF THE HEARING IMPAIRED 3 semester hours

Explores the handicap of hearing impairment with emphasis on the history of educational procedures and guidance in communicative, psychological and vocational habilitation.

74.205 INTRODUCTION TO INSTRUCTIONAL METHODS FOR THE HEARING IMPAIRED 3 semester hours

Introduces students to the design of instructional procedures and methods of implementing curricula for education of the hearing impaired. Discusses and demonstrates traditional and innovative approaches to teaching.

74.462 PROBLEMS IN EDUCATION OF THE HEARING IMPAIRED 3 semester hours

Addresses the educational problem of hearing impairment and the function of teachers in public and private educational settings.

CURRICULUM IN AUDIOLOGY (Dr. G. Donald Miller, Curriculum Coordinator)

A. General Education: (See Section 6.4)

B. Professional and related requirements: Communication Disorders: 74.152, 240, 251, 252, 253, 353, 376, 402, 460, 461, 467; Biology: 50.366. Twenty-one (21) 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; 46.400

C. Elective Courses: to complete minimum graduation requirement.

D. Graduate Program: (See Graduate Bulletin)

COMMUNICATION DISORDERS (Code 74)

74.276 INTRODUCTION TO AUDIOLOGY 3 semester hours

Introduces students to the 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 semester hours

Presents current teaching methods for educating children with moderate and severe hearing losses.

adults with moderate and severe hearing losses.

Prerequisite: 276.

- 74.469 EXPERIENCE IN EDUCATION OF THE HEARING IMPAIRED** **1-3 semester hours**
 Provides experience working under supervision with deaf and hearing impaired children in the demonstration classroom or field facility.
Prerequisite: Permission of the instructor.
- 74.472 MEASUREMENT OF HEARING LOSS** **3 semester hours**
 Presents the anatomy and physiology of the hearing mechanisms. Also investigates the etiology of hearing losses, interpretation of audiometric evaluations and available rehabilitative procedures. Provides laboratory experience in the administration of clinical audiometric evaluations. Emphasizes special tests and advanced audiometric procedures.
Prerequisite: 74.276, 376.
- 74.475 INTRODUCTION TO SPEECH SCIENCE** **3 semester hours**
 Applies the principles of speech science to speech therapy and other areas. 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.
Prerequisites: 74.152, 251, 253, 276, 376.

CURRICULUM IN INTERPRETER TRAINING
(Gary E. Mowl, Coordinator)

A. General Education: (See Section 6.4)

B. Professional and Related Requirements: Communication Disorders: 74.152, 153, 154, 155, 201, 205, 240, 276, 300, 376, 254, 255, 256, 257, 258, 259, 260, and 261. Twenty (20) semester hours elected with departmental approval from: 20.411, 25.103, 215, 220, 26.208, 312, 46.440, 48.101, 211, 231, 251, 260, 271, 321, 356, 375, 376, 416, 451, 50.333, 59.211, 70.101, 455, 454 and 460.

C. Elective Courses: To complete the minimum graduate requirement.

COURSE DESCRIPTIONS

INTERPRETER TRAINING
(Code 74)

- 74.153 INTRODUCTION TO MANUAL COMMUNICATION WITH THE DEAF** **3 semester hours**
 This course involves a study of basic sign language vocabulary and fingerspelling techniques used in communication with hearing impaired individuals. Emphasis is placed on developing proper expressive and receptive skills.
- 74.154 MANUAL COMMUNICATION II** **3 semester hours**
 This course involves a study of intermediate/advanced sign language, vocabulary, and fingerspelling techniques used in communication with hearing impaired individuals. Emphasis is placed on developing and improving proper expressive and receptive Signed English skills.
Prerequisite: 74.153 or equivalent skills).
- 74.155 AMERICAN SIGN LANGUAGE I** **3 semester hours**
 This course involves a study of American Sign Language (ASL) including the history of ASL and its recognition as a language. The major thrust and focus of this course will be the study of ASL sign principles and the linguistic structure of the language. This study will be reinforced by drills and vocabulary development sessions to build expressive and receptive ASL skills.
- 74.254 THE DEAF CULTURE** **3 semester hours**
 This course involves the study and analyzation of the deaf community. Emphasis will be placed on the research and discussion of social, psychological and personal aspects of the members of the deaf community.

74.255 INTRODUCTION TO INTERPRETING FOR THE DEAF 3 semester hours

This is an introductory course in interpreting involving topics such as the Registry of Interpreters for the Deaf, their purpose, code of ethics, physical factors, levels of certification and the communication process. The course also, with its lab work, will be designed to build expressive interpreting and transliteration skills. A number of interpreting situations for observation and practice shall also be involved.

Prerequisite: 74.155 or equivalent skills).

74.256 AMERICAN SIGN LANGUAGE II 3 semester hours

This course is a continuation of American Sign Language I. The major thrust of this course, however, focuses on more advanced and complex grammatical and linguistic aspects of ASL reinforced by drills and vocabulary development sessions to build expressive and receptive ASL skills.

Prerequisite: 74.155 or equivalent skills).

74.257 INTERPRETING/TRANSLITERATING ENGLISH TO SIGN LANGUAGE 3 semester hours

This course shall be a continuation of the building of interpreting and transliteration expressive skills. Experience shall be gained through much lab work and classroom discussions when additional interpreting situations are provided. Emphasis will be placed on professionalism, principles and ethics.

Prerequisite: 74.255 and 74.256 or equivalent skills).

74.258 SIGN TO VOICE INTERPRETING 3 semester hours

This course introduces the student to the theory and practice of comprehending a variety of manual communications and voicing the messages into Spoken English. The course, with its lab, will emphasize the broad skills of comprehending sign language, forming syntactically correct English sentences and the proper use of the voice.

Prerequisite: 74.255 and 74.256 or equivalent skills).

74.259 ORAL INTERPRETING/TRANSLITERATING 3 semester hours

This course involves the identification of information and techniques and the utilization of skills required for effective oral interpreting and transliterating. Also included is the use of personal characteristics to facilitate speech reading and the identification of the needs of the hearing impaired individual during interpretation.

Prerequisite: 74.255 or equivalent skills).

74.260 INTERPRETING IN THE EDUCATIONAL SETTING 3 semester hours

This course involves the study of interpreting within a variety of educational settings including postsecondary, secondary and elementary areas. Topical areas covered will include: recent legislation on the status of interpreters, characteristics of various educational settings and visually coded English Sign Systems.

Prerequisites: 74.255 and 74.256 or equivalent skills).

74.261 PRACTICUM IN INTERPRETING 3 semester hours

This course involves the placement of the student with an experienced, qualified interpreter. On-the-job training will be attained through this 6 hour per week experience.

Prerequisite: All previously listed interpreter training courses).



EARLY CHILDHOOD AND ELEMENTARY EDUCATION

(Department of Curriculum and Foundations)

FACULTY:

Professors Charlotte Hess, John Hranitz, Donald Miller, Gorman Miller, Ann Marie Noakes, William O'Bruba (Chairperson), Donald Vannan, Lynn Watson, William Woznek; Associate Professor Edward Warden; Assistant Professors Richard Donald, Robert Remaley.

Three curricula are offered: a curriculum leading to certification for kindergarten through grade 6 (designated K-6); a curriculum in early childhood education which leads to certification for nursery, daycare, preschool, kindergarten and grades 1-3 (designated N-K-3); and a dual certification program combining the N-K-3 and the K-6 programs. See the department chairperson for specifics on the dual certification program. The requirements of these curricula are as follows:

EARLY CHILDHOOD N-K-3 CERTIFICATION (Dr. William S. O'Bruba, 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 sciences 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
- 48.271 - Educational Psychology, or 60.391, Learning for the Learner

EDUCATION (Required)

- 60.393 - Social Foundations of Education or 60.394 - Education in an Urban Society
- 60.202 - Instructional Technology and Media
- 63.303 - Methods and Materials in Elementary Science N-K-3
- 62.121 - Introduction to Early Childhood Education
- 62.322 - Seminar in Learning Experiences with Young Children
- 62.370 - Reading for the Young Child, N-K-3
- 62.373 - Diagnostic and Remedial Reading or 62.375 Reading for the Socially Disadvantaged Child
- 62.433 - Communicative Arts in Early Childhood
- 62.432 - Social Studies in the Elementary School
- 62.396 - Mathematics for the Young Child
- 62.310 - Fine Arts in Elementary Education
- 62.401 - Student Teaching for Elementary and Early Childhood Education
- 62.411 - Professional Seminar: Elementary and Early Childhood Education

ELECTIVES

(12 semester hours must be elected from the following courses:)

- 20.351 - Literature for Children
- 35.242 - Class Piano I
- 53.204 - Measurement and Metrics
- 60.311 - Educational Measurements
- 62.373 - Diagnostic and Remedial Reading
- 62.375 - Reading for the Socially Disadvantaged Child
- 62.376 - Language Experiences for Children
- 62.389 - Individualizing Instruction Activities in the Elementary School
- 62.410 - Workshop in Pre-school education
- 62.480 - A Study of Discipline in the Elementary School
- 70.101 - Introduction to Exceptional Individuals
- 70.256 - The Mentally Gifted
- 05.311 - Methods and Materials in Elementary Physical Education

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 Certification
(Dr. William O'Bruba, 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 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; physical Science, 3 semester hours; 12 semester hours elected from three of the disciplines listed as social science in Section 6.4; 15 semester hours 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 to 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)

- 60.202 - Instructional Technology and Media
- 60.393 - Social Foundations of Education or 60.394 Education in an Urban Society
- 35.311 - Music in the Elementary School or 62.310 - Fine Arts in Elementary School.
- 05.311 - Methods and Materials in Physical Education
- 60.311 - Educational Measures
- 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
- 62.390 - Social Studies in the Elementary School (K-6)
- 62.391 - Language Arts in the Elementary School (K-6)
- 62.398 - Methods and Materials in Elementary Mathematics
- 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
- 62.121 - Introduction to Early Childhood Education
- 62.322 - Seminar in Learning Experiences with Young Children
- 62.401 - Workshop in Pre-school Education
- 62.373 - Diagnostic and Remedial Reading
- 62.375 - Reading for the Socially Disadvantaged
- 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
- 05.320 - Health and Safety in the Elementary School
- 70.101 - Introduction to Exceptional Individuals
- 70.256 - The Mentally Gifted

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

EARLY CHILDHOOD AND ELEMENTARY EDUCATION

(Code 62)

- 62.121 INTRODUCTION TO EARLY CHILDHOOD EDUCATION** 3 semester hours
Examines the historical and philosophical foundations of Early Childhood Education. Analyzes current trends and practices for teaching children from the ages of birth to six.
- 62.302 METHODS AND MATERIALS IN ELEMENTARY SCHOOL SCIENCE** 3 semester hours
Emphasizes the major methods and materials used in elementary school science.
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 semester hours
Classroom activities from American schools and British Infant School programs; discovery method is stressed.
Prerequisite: 3 semester hours in biology and 3 semester hours in physical science

- 62.304 ENVIRONMENTAL EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER** **3 semester hours**
Provides learning experiences for the elementary school level in environmental education programs.
- 62.310 THE FINE ARTS IN ELEMENTARY EDUCATION** **3 semester hours**
Provides competencies in the selection and implementation of materials and procedures for teaching the literary, visual and performing arts to elementary school children. Emphasizes the comprehension and integration of the fine arts into all areas of the school curriculum.
- 62.312 INTERNSHIP IN EDUCATION** **1-15 semester hours**
- 62.322 SEMINAR IN LEARNING EXPERIENCES WITH YOUNG CHILDREN** **3 semester hours**
Outlines the physical, mental, emotional and social levels of children from birth to age 6, with attention to environmental factors that foster child growth. Examines 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 semester hours**
Examines developmental reading from readiness through the third grade.
Prerequisite: 45 semester hours.
- 62.371 TEACHING READING IN THE ELEMENTARY SCHOOL** **3 semester hours**
Examines developmental reading from readiness through grade six.
Prerequisite: 45 semester hours.
- 62.373 DIAGNOSTIC AND REMEDIAL READING** **3 semester hours**
Presents diagnostic and remedial procedures emphasizing both standardized and informal techniques.
Prerequisite: 62.371 or 62.370.
- 62.375 READING FOR THE SOCIALLY DISADVANTAGED CHILD** **3 semester hours**
Addresses methods and materials for the instruction of the disadvantaged child (K-12). Presents techniques and theories as they may be applied to help the socially disadvantaged child function more adequately in the school environment. Open to all majors including secondary education.
- 62.376 LANGUAGE EXPERIENCES FOR CHILDREN** **3 semester hours**
Explores the language development of children and factors that influence skill in effective communication development from nursery school through sixth grade. Provides a background for students in language arts and literature for children.
- 62.389 INDIVIDUALIZING INSTRUCTION ACTIVITIES IN THE ELEMENTARY SCHOOL** **3 semester hours**
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 a language arts center, mathematics center, science centers and social studies centers.
- 62.390 METHODS IN ELEMENTARY SCHOOL SOCIAL STUDIES, K-6** **3 semester hours**
Emphasizes methods and materials appropriate for teaching elementary school social studies in contemporary society.
- 62.391 METHODS IN ELEMENTARY SCHOOL LANGUAGE ARTS, K-6** **3 semester hours**
Emphasizes methods and materials designed to help elementary school children develop communication skills for today's complex society. Includes all areas of a modern language arts curriculum.
- 62.396 MATHEMATICS FOR THE YOUNG CHILD** **3 semester hours**
Presents an activities-centered approach to teaching designed for the teachers of children to age nine.
Prerequisite: 6 semester hours in mathematics.

**62.398 METHODS AND MATERIALS IN MATHEMATICS
IN THE ELEMENTARY SCHOOL**

3 semester hours

Outlines mathematical methods, materials, understandings and attitudes essential in the teaching of contemporary programs in the elementary school.

Prerequisite: 6 semester hours in mathematics.

**62.400 WORKSHOP IN TEACHING ELEMENTARY AND
EARLY CHILDHOOD MATHEMATICS**

3 semester hours

Presents a workshop format 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 semester hours

Provides opportunities for direct participating experiences. Places students in classrooms with public or private school teachers. The major(s) of the students determine one of the following assignments: K-6 One experience in a primary level and one experience in an intermediate level of a public school. N-K-3: One experience in a preschool situation and one in a primary level of a public school or two experiences in a primary level of a public school.

62.410 WORKSHOP IN PRESCHOOL EDUCATION

1-6 semester hours

Provides teachers with a workshop experience in infant-Day- Care Centers and Nursery Schools. Provides 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 semester hours

Reviews school law, professional ethics and current education research; designed for elementary and early childhood student teachers. Scheduled concurrently with Student Teaching.

62.431 INDEPENDENT STUDY IN ELEMENTARY EDUCATION

3 semester hours

Requires the consent of the department chairperson. Individual projects in education.

62.432 TEACHING OF SOCIAL STUDIES IN EARLY CHILDHOOD EDUCATION

(NK3)

3 semester hours

Outlines current objectives, methods, and materials in the area of social studies in the elementary school. Examines psychological and sociological needs of children as they relate to the development of social studies program in the modern school.

62.433 TEACHING OF LANGUAGE ARTS IN EARLY CHILDHOOD EDUCATION

(NK3)

3 semester hours

Presents an introduction to the subjects called the language arts. Covers 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 semester hours

Permits teachers in service to engage in individual or group study of classroom subjects or problems of interest to them in their teaching.

62.480 STUDY OF DISCIPLINE IN THE ELEMENTARY SCHOOL

3 semester hours

Emphasizes techniques designed to modify behavior in a positive way.



EDUCATIONAL FOUNDATIONS

(Department of Curriculum and Foundations)

FACULTY:

Professors H.M. Afshar, Robert C. Miller, David E. Washburn, Matthew Zoppetti; Associate Professor Nancy Gilgannon.

Although it offers no major degree programs, Educational Foundations provides academic support services for all teacher education programs.

COURSE DESCRIPTIONS

EDUCATIONAL FOUNDATIONS

(Code 60)

- 60.101 THE SCHOOL IN CONTEMPORARY AMERICAN SOCIETY** 3 semester hours
Analyzes American education in terms of its interaction with other institutions within the social order. Designed as a General Education course for arts and sciences students.
(Offered occasionally.)
- 60.201 CAREER DEVELOPMENT AND LIFE PLANNING** 3 semester hours
Explores career theories as they relate to a student's value system. Studies careers as a developmental process which includes decision making, goal setting and life planning.
- 60.202 INSTRUCTIONAL TECHNOLOGY AND MEDIA** 3 semester hours
An introduction to the communicative media and technology used in instructional settings with emphasis on practical applications of audiovisual and computer technology. The course provides demonstrations and laboratory experiences in utilizing technology and software for educational applications such as group instruction, tutorials, simulations, educational research, recordkeeping and word processing laboratory sessions in the use of audio-visual materials in education.
- 60.301 EDUCATIONAL MEDIA** 2 semester hours
Presents a comprehensive study of communicative media including laboratory sessions in the use of audio-visual materials in education.
- 60.302 INTRODUCTION TO RESEARCH** 3 semester hours
This course is designed to provide the undergraduate student with an introduction to research methods and techniques. The major objectives are to give the student the basic understanding to be a better consumer of research, to be more aware of the value of research, and to be able to carry out beginning level research projects.
Prerequisite: Statistics
- 60.311 EDUCATIONAL MEASUREMENTS AND EVALUATION** 3 semester hours
Reviews principles of evaluation; grading; representative standardized tests; vocabulary of measurement, test construction and interpretation; informal and formal measurement in the cognitive, affective and psychomotor areas.
- 60.391 LEARNING AND THE LEARNER** 3 semester hours
Reviews psychological foundations of education, individual differences, learning theories applied to classroom situation, physical and mental growth, personality development and mental hygiene.
- 60.393 SOCIAL FOUNDATIONS OF EDUCATION** 3 semester hours
Reviews the 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 semester hours**

Studies the formal educational settings which serve areas in the United States with high population densities and the social factors which influence education in these settings. Fulfills the social Foundations requirements for certification.

60.421 RECENT TRENDS IN CURRICULUM AND SCHOOL PRACTICES **3 semester hours**

Focuses on current curricular offerings of elementary and secondary schools. Emphasizes 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 semester hours**

Admission only with consent of the department chairperson.

60.440 WORKSHOP IN EDUCATIONAL MEDIA **1-6 semester hours**

Studies selected topical areas related to media technique skills and programs. May include research by individual students.

60.441, 442, 443 WORKSHOP IN EDUCATION **1-6 semester hours**

Studies selected areas education including research by individual students in a special teaching field.

60.451 PUPIL PERSONNEL SERVICES IN THE PUBLIC SCHOOL **3 semester hours**

Presents a comprehensive study of pupil personnel services in elementary and secondary schools; school attendance, school health programs, pupil transportation, psychological services and guidance service.



SECONDARY EDUCATION

(Department of Curriculum and Foundations)

7-12 Certification

(A.J. McDonnell, Coordinator)

FACULTY:

Professor Raymond E. Babineau; Associate Professors Martin M. Keller, A.J. McDonnell (assistant chairperson).

Secondary Education 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 concentration as follows:

A. General Education: (See Section 6.4)

B. Professional Education: (See course descriptions for prerequisites of these courses.)

60.393 - Social Foundations of Education	3 semester hours
60.391 - Learning and the Learner	3 semester hours
60.202 - Instructional Technology and Media	3 semester hours
*65.396 - Curriculum and Instruction in the Secondary School	4 semester hours
*65.351 to 360 (Appropriate subject matter methods course)	
**65.402 - Student Teaching	12 semester hours
**65.374 - Teaching of Reading in the Academic Subjects	3 semester hours
*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 requirements of 128 semester hours.

AREAS OF CONCENTRATION IN SECONDARY EDUCATION

BIOLOGY

Chemistry: 52.111, 112; 113, 52.211, 233;

Mathematics: 53.141 or 48.160;

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: 52.111, 112, 113, 222, 231, 232, 311, 312, 490;

Physics: 54.211, 212;

Mathematics: 53.125, 126, 175, 225.

Biology: 50.101, 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 - Communications

English: 20.302

One course from 20.120, 121, 220, 221, 222, 223;

One course from 20.360, 362, 363;

One course from 20.311, 312, 411;

Communication Studies: 25.103 or 104; 25.206 or 241; 25.205 or 215; 26.102 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, 413

EARTH AND SPACE SCIENCE

Mathematics: 53.175 - Two courses selected from 53.113, 123, 125, 126, 141;

Physics; 54.111, 112;

Chemistry; 52.111, 112, 113;

Earth Science: 51.101, 51.111, 253, 255, 259; plus 4 additional courses from 51.102 and 112, 105, 355, 361, 362, 365, 369, 370, 451, 453, 461, 462, 468, 470, 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: 20.311 or 20.312 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, 109, 201, 202, 203; 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 50.110, 120; 351; one course at 300 or 400 level;
Chemistry: 52.111, 112, 113;
Physics: 54.111, 112, or 54.211, 212;
Earth Science: 51.101 and 112, 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.

MATHEMATICS

Mathematics: 53.125, 126; 177, 185, 211, 225, 226, 231 241;
Twelve semester hours to be elected from 53.271, 275, 311, 314, 322, 331, 341, 361, 371, 372, 373, 374, 381, 411, 421, 422, 451, 461, 471, 472, 491, 492.

PHYSICS

Physics: 54.211, 212, 301, 310, 314, 400;
6 semester hours chosen from the following: 302, 304, 315, 318; 421; 422; 450; 480; 490; 491; 493.
Chemistry: 52.111, 112, 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, 212;
Geography: 41.101, 102;
History: 42.112, 113; 208 or 121 or 122 or 223;
Political Science: 44.101, 161;
Sociology: 45.211;
Psychology: 48.101.

Emphasis Options:

Economics

40.423 or 40.222
Selection of fifteen (15) hours in economics from the following: 40.311, 312, 313, 315, 316, 333, 346, 410, 413, 424, 434; 44.105 or 45.213.

Geography

18 semester hours in geography; 3 semester hours elective in economics or psychology or sociology or political science or history.

History

History 42.398
Minimum of one course from each of the following groups: non-western world, Europe, United States; six semester hours elective in history (300-400 level); and 6 semester hours elective in economics or geography, or political science or psychology or sociology / anthropology.

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 American government and politics from the following: 44.322, 323, 324, 326, 336, 437, 438, 440, 446, 447, 448, 452, 456, 457, 458.

One course in comparative politics from the following: 44.366, 371, 372, 373, 376, 463, 464, 465.

One course in international politics from the following: 44.181, 383, 487.

6 semester hours elective in history or political science.

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 politics, international politics.

3 semester hours elective in economics or sociology or history or geography

Psychology

Psychology 48.160, 281, 451, 476. Selection of nine elective hours in psychology.

Sociology/Anthropology

Sociology 45.213, 215;

Sociology 45.216 or 318;

46.100, 390, 440;

SPANISH

Spanish: 12.103, 104, 109, 201, 202, 203, 211 or 212;

9 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, 05.430; one or two courses from 05.251, 252, 253, 256, 257, 260. Completion of these courses does not lead to certification.

COURSE DESCRIPTIONS

SECONDARY EDUCATION

(Code 65)

65.354 TEACHING OF PHYSICAL SCIENCE IN THE SECONDARY SCHOOL 3 semester hours

65.357 TEACHING OF GEOGRAPHY AND EARTH SCIENCE IN THE SECONDARY SCHOOL 3 semester hours

65.374 TEACHING OF READING IN ACADEMIC SUBJECTS 3 semester hours

Understanding 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 semester hours

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 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 Communication in the Secondary School (Fall Only)** 3 semester hours
- 65.352 Teaching of Mathematics in the Secondary School (Spring Only)** 3 semester hours
- 65.353 Teaching of Science in the Secondary School (Spring Only)** 3 semester hours
- 65.355 Teaching of Social Studies in the Secondary School (Fall Only)** 3 semester hours
- 65.358 Teaching of Foreign language in the Secondary School (Spring Only)** 3 semester hours
This course provides the student with knowledge and skills to teach French and Spanish in a secondary school setting.
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 semester hours
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.
Prerequisite: education 65.396.
- 65.411 SEMINAR IN SECONDARY EDUCATION** 3 semester hours
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 semester hours
Consent of the department chairperson required.
- 65.441 SECONDARY EDUCATION WORKSHOP** 3-6 semester hours
Designed for both teachers in service and upper level undergraduates. Study of selected areas in secondary education. Individual or group study of classroom subjects of interest or concern in teaching.



SPECIAL EDUCATION

(Department of Communication Disorders and Special Education)

FACULTY:

Professors Mary B. Hill, Kenneth P. Hunt, William L. Jones, Andrew J. Karpinski (Chairperson), Colleen J. Marks, John M. McLaughlin, Jr., Carroll J. Redfern; Associate Professor James T. Reifer; Assistant Professors Ann Lee, Joseph M. Youshock.

Program Description

The program in special education offers certification for teachers of the mentally retarded and/or physically handicapped individuals, with an area of concentration for students in hearing impaired and the courses and experiences which support these curricula.

Special education faculty are located in Navy Hall, which is equipped with therapy rooms, television equipment and other equipment and materials used in the training of exceptional individuals.

Students enrolled in special education have the opportunity of participating in practica in supervised and graded special classes. Students participate in full-time student teaching at the Selinsgrove Center, and public schools in Columbia, Lackawanna, Luzerne, Lycoming, Montour, Northampton, Northumberland, Snyder, Sullivan and Centre counties. A special class located in Navy Hall and conducted by the Central Susquehanna Intermediate Unit provides opportunity for observation and participation.

Continued enrollment in the special education curriculum after the sophomore year is limited to students who have met successfully the existing criteria for admission to departmental candidacy.

Sophomores who have been tentatively enrolled in the curriculum may apply for continued enrollment as part of their application for admission to teacher education. Selection for special education is made by the faculty of the special education department in light of the applicant's academic performance.

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; English 20.101 and 20.201; Speech 25.103; Psychology 48.110. (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; 05.321; 60.202; 62.371; 62.398; 60.393.

D. Specialization: 70.202; 70.200; 70.251; 70.250; 70.231; 70.432; 70.353; 70.450; 70.451; 70.461; 70.401.

E. Elective courses: If necessary to complete the minimum of 128 semester hours for graduation.

COURSE DESCRIPTIONS

SPECIAL EDUCATION

(Code 70)

70.101 INTRODUCTION TO EXCEPTIONAL INDIVIDUALS 3 semester hours

The course introduction to exceptional individuals reviews all major areas of exceptional-ity (visually impaired, mentally retarded, hearing impaired, communication disorders, behavior disorders, learning disabilities, etc.) and acquaints the student with social, sociological, psycho-logical, medical, historical, legal, economic and professional aspects of these conditions. Current research is reviewed and the latest techniques for facilitating meaningful interactions with these individuals are reviewed.

70.200 INTRODUCTION TO THE MENTALLY AND PHYSICALLY HANDICAPPED 3 semester hours

Presents an orientation to the nature of mental and physical handicaps; concerned with etiology and types, and with the behavioral and learning characteristics involved. Exposes students to an 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 individual and parent.

70.231 LANGUAGE I 3 semester hours

Aids the teacher in developing understanding of listening and speech processes, develop-mental and defective. Course content includes introduction to the anatomy and 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 semester hours

Deals with inappropriate behaviors emitted by children and youth and the techniques and strategies that may be used to modify these behaviors. Some other areas covered are psychological disorders, research related to aggressive and withdrawn behavior, and techniques and materials used in social curriculum. Examines group and individual problems at all levels of schooling.

Prerequisite: 70.101.

70.251 LEARNING DISABILITIES 3 semester hours

Presents its content in three units, a general overview, the central nervous system and specific learning disabilities. Includes general characteristics of learning problems, their causes or related factors, 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 semester hours

Provides supervised student contact with low functioning mentally retarded/ multihand-icapped individuals (LFMR). The student designs and implements educational experiences for LFMR and builds and uses materials suitable to the abilities of the individuals with whom they work. Exposes methods and materials appropriate to this segment of the MR population. Course conducted at Selinsgrove Center.

Prerequisites: Junior or senior standing and 70.200.

70.255 EXPERIENCE WITH EXCEPTIONAL INDIVIDUALS 3 semester hours

Presents clinical or field experience working individually or in small groups with excep-tional individuals in various settings.

Prerequisites: Junior or senior status and permission of instructor.

70.256 THE MENTALLY GIFTED 3 semester hours

Assists students to become familiar with physical, mental, emotional, and social character-istics 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.

- 70.432 LANGUAGE II** **3 semester hours**
 Aids the student in preparing to teach exceptional individuals 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.
- 70.450 METHODS FOR ELEMENTARY SPECIAL EDUCATION** **3 semester hours**
 Presents 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.
Prerequisite: Junior or Senior Status.
- 70.451 METHODS FOR SECONDARY SPECIAL EDUCATION** **3 semester hours**
 Presents a student-centered workshop approach in analysis of methods, research, and philosophies currently in use in the teaching of special education students. Provides practice in the use of various teaching aids and machines related to student projects in secondary special classes.
Prerequisite: Junior or senior standing.
- 70.353 ASSESSMENT AND PLANNING** **3 semester hours**
 Gives the students information and experience with formal and informal assessment devices and procedures, their usages and appropriateness. Covers gathering information about the learner prior to instruction concerning appropriate instructional tasks, sensory channels, interest areas, and social skills. Covers ways of developing informal assessments, gathering observational information, storing information and planning for instruction.
Prerequisite: Junior or senior status.
- 70.357 PRE-VOCATIONAL AND VOCATIONAL TRAINING FOR THE HANDICAPPED** **3 semester hours**
 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 those students and programs.
- 70.375 INDIVIDUAL PROJECT** **3 semester hours**
 This project is 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 INDIVIDUALS** **12 semester hours**
 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 semester hours**
 Presents instruction in the development of constructive teaching of exceptional individuals. Focuses on problems in the education of exceptional children. Discusses its relationship to teaching as each problem is defined. Helps the future teacher meet practical problems in guiding the exceptional individual in learning experiences at school.
Prerequisite: Concurrent with 70.401.
- 70.490-491-492 SPECIAL WORKSHOP** **1-6 semester hours**
 Utilizes 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, practicum, news media and related techniques.

9.04 SCHOOL OF HEALTH SCIENCES

ALLIED HEALTH SCIENCES

(Department of Biological and Allied Health Sciences)

(Dr. James E. Cole, Coordinator)

The allied health sciences encompass those health areas in which individuals support, aid and increase the efficiency and effectiveness of other health care professionals by becoming a contributing member of the health care team.

The curricula offered at Bloomsburg include: Medical technology, radiologic technology, health services associate, dental hygiene, pre-occupational therapy, pre-physical therapy and pre-cytotechnology. Completion of these programs involves clinical education and experience - usually away from the campus. The university offers degrees for the first four curricula, i.e., bachelor's in medical technology, bachelor's in radiologic technology, associate in health services, and bachelor's in education for dental hygienists. Radiological technology, health services associate and the dental hygiene program are advanced entry programs.

An affiliation with Thomas Jefferson University's College of Allied Health Sciences facilitates transfer of students from the preparatory curricula of physical therapy, occupational therapy and cytotechnology into baccalaureate programs there.

MEDICAL TECHNOLOGY CURRICULUM

(Dr. James E. Parsons, Coordinator and Clinical Internship Supervisor)

The Medical Technology Program consists of 98 to 100 semester hours of courses prescribed by the university, followed by one year of clinical study and experience in a School of Medical Technology approved by the National Accrediting Agency for Clinical Laboratory Science (NAACLS). Bloomsburg University has formed affiliations with: Abington Memorial Hospital, Abington, PA; Bryn Mawr Hospital, Bryn Mawr, PA; Divine Providence Hospital, Williamsport, PA; Geisinger Medical Center, Danville, PA (Major Affiliate); Harrisburg General Hospital, Harrisburg, PA; Lancaster General Hospital, Lancaster, PA; Medical College of Pennsylvania and Hospital, Philadelphia, PA; Nazareth Hospital, Philadelphia, PA; Polyclinic Medical Center, Harrisburg, PA; Robert Packer Hospital, Sayre, PA; Sacred Heart Hospital, Allentown, PA; St. Joseph's Hospital, Reading, PA; St. Luke's Hospital, Bethlehem, PA; Scranton Medical Technology Consortium, Scranton, PA; Wilkes-Barre General Hospital, Wilkes-Barre, PA; Williamsport Hospital, Williamsport, PA.

Students enrolling in the curriculum leading to the bachelor of science degree will be admitted under the same policy governing other applicants to Bloomsburg University. These requirements may be found under Admission and Readmission (Chapter 4).

Assistance in making application for admission to the clinical year program is offered by the university, but admission is determined solely by the hospital. The university 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 interview to have a knowledge of the field are given priority. Most of the schools offering Medical technology programs charge a tuition; however, Bloomsburg does not charge tuition during the clinical year.

Students who successfully complete all of the requirements and the clinical year program shall receive the bachelor of science degree. All clinical year graduates will become eligible to take the certification examinations for medical technologists. Upon successfully completing one or both of these examinations, the student will be awarded his/her certificate and be entitled to use the designation M.T. (ASCP) or C.L.S. after his/her name.

A student who fails to gain admission to a clinical program at the end of the junior year, or wishes to complete a degree before entering the clinical experience, may remain at the university and complete the requirements for a baccalaureate degree. Ordinarily the student can complete the bachelor of arts curriculum in biology in one additional year; other curricula may require more time. A student may also opt to take a leave of absence (See Section 4.12) to preserve his/her right to return later. 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, 110, 242, 243, 233 or 332; 342; 343 and 371; highly recommended 50.364 and 50.471.

Chemistry: 52.111 112, 113, 222, 211 and 233 or 231 and 232.

Mathematics: 53.141 or 48.160 and 53.175.

Physics: 54.107.

Elective courses to complete at least 98 semester hours.

98 semester hours.

C. Clinical Experience

Certification of the clinical experience and registry examination is accepted for the final 30-32 semester hours of the 128 semester hour graduation requirement.

Below is a list of courses that are offered at most of the hospitals and medical centers with which Bloomsburg University is affiliated:

86.401 CLINICAL MICROBIOLOGY 6-10 semester hours

A lecture and laboratory study of bacteria, fungi, parasites, and viruses which cause disease in man, their clinical pathology and related diagnostic laboratory procedures.

86.402 CLINICAL HEMATOLOGY/COAGULATION 6-10 semester hours

A lecture and laboratory study of hematopoiesis and blood coagulation. Objectives of this course are to enable the student to acquire an understanding of the theory of hematological tests, skill in the performance of these tests, knowledge of blood disorders and an insight into the significance of test results.

86.403 CLINICAL CHEMISTRY FOR MEDICAL TECHNOLOGISTS 6-10 semester hours

Lecture and laboratory study of enzymes, carbohydrates, lipids, proteins, nitrogenous end products, electrolytes, acid-base balance, body fluids, toxicology, endocrinology and urinalysis. The lecture series includes anatomy, physiology, methods of analysis and clinical significance of each biochemical determination. The laboratory study includes standardization and quality control of procedures using spectrophotometry, chromatography, electrophoresis and automated techniques.

86.404 CLINICAL IMMUNOHEMATOLOGY 3-6 semester hours

Lecture and laboratory study of blood groups, genetics, antigens, and antibodies and their interaction as related to safe transfusion, prediction of immune incompatibilities and proof of parentage. Donor collection, processing, blood component preparation and therapy are also studied.

86.405 CLINICAL IMMUNOLOGY/SEROLOGY 2-4 semester hours

Lecture and laboratory study of immunological concepts and theory and their relation to serologic reactions and clinical interpretations.

86.406 CLINICAL SEMINAR**1-6 semester hours**

Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) and/or are unique to the individual hospital program.

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 at an *advanced entry* level for those already possessing certification as radiologic technologists (RT) or radiographers. Students are required to select a group of courses comprising either a management core or an education core.

Students entering at this advanced level are awarded 60 credits for satisfactory completion of an 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 from Bloomsburg University. The minimum number of credits for graduation is 128.

The recommended third year sequence of courses comprises an allied health core similar to that taken by other allied health majors. Assistance in choosing the proper courses is given by the departmental adviser for radiologic technology.

A. General Education, Phys. Ed. optional (See Section 6.4)**B. Specialization**

Bio./Allied Health Sciences; 50.110 and 371.

Chemistry: 52.101 and 113.

Mathematics: 53.113 or 123, and 141 or 48.160.

Psychology: 48.101

C. Core Courses (Either management or education)

Management: 91.221, 92.250, 93.344, 93.345 and 93.446 or a course in health care leadership.

Education: 60.202, 311, 391 or 48.271, 60.393, and 65.396 or 60.421.

D. Professional Requirement: 89.300

60 credits awarded for satisfactory completion of an AMA approved program in R.T., and the passing of the A.R.R.T. examination.

HEALTH SERVICES ASSOCIATE CURRICULUM

This *advanced entry* 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 interpersonal skills. 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 have shown 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 University.

A. General Requirements (51 credits)

English: 20.101 and 200 or 201 or English 104

Mathematics: any one of seven courses from 53.101 to 53.141, or 48.160.

Speech: 25.103 or 104.

Sociology: 45.211.

Psychology: 48.101, 48.211 or 110, 48.251 and 48.311 or 45.490.

Chemistry: 52.101 and 113.

Bio./Allied Health Sciences: 50.107, 173, 174, and 240 or 242; 50.243 is highly recommended.

Also a course in nutrition (50.205), 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.

DENTAL HYGIENISTS CURRICULUM

The degree, bachelor of science in education, will be conferred upon dental hygienists meeting the requirements listed below.

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 two-year (not less than 30 hours each week) dental hygienist course of instruction or its equivalent and graduation from a dental hygiene school approved by the State Dental Council and Examining Board.
2. The satisfactory completion of an additional 70 credit hours of professional and general education courses distributed as follows:

A. General Requirements (48 hours)

English 20.101, 200, 201, or Eng. 104

Speech 25.103;

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 and 271.

Education 60.301 and 393.

C. Free Electives as necessary to complete the minimum of 70 semester hours.

PRE-OCCUPATIONAL THERAPY, PRE-PHYSICAL THERAPY AND PRE-CYTOTECHNOLOGY CURRICULA

Requirements for admission to professional schools of physical therapy, occupational therapy, and cytotechnology vary. Entrance into professional schools usually follows two to four years of undergraduate preparation. Hence, the student is encour-

aged to design a program which may lead to a baccalaureate degree at Bloomsburg University.

The opportunity to obtain a baccalaureate degree in physical therapy, occupational therapy, or cytotechnology has been greatly enhanced as an affiliation agreement between Bloomsburg University and Thomas Jefferson University's College of Allied Health Sciences. This affiliation facilitates transfer to upper-division baccalaureate degree programs at Thomas Jefferson University for students who have completed a minimum of two years preparatory education at Bloomsburg University. This "2 + 2" arrangement provides the advantage of offering a quality, reasonably-priced education at a rural university combined with training in an attractive urban setting in Philadelphia at a major medical center.



NURSING

FACULTY:

Professors Lauretta Pierce, Gladys Ancrum; Associate Professors Mary Christine Alichne, Lucille Gamberdella (on leave), Eloise Hippensteel, Nancy A. Onuschak; Assistant Professors Jean E. Berry, Robert L. Campbell, Sandra Girton, Jean K. Kalat, Sharon Kribbs, Margaret Legenhansen, Mary Elizabeth Rarig, Barbara Synowicz, Dorette Welk, L. Patricia Zong; Instructors Marilyn Boogard, Alexis Bulka, Thelma Lohr, Helene Robertson, Gloria Schechterly, Joan Stone, Patricia Torsella, Carolyn Dalton (part-time nutritionist).

Purpose:

The purpose of the baccalaureate program in nursing at Bloomsburg is to provide learning opportunities in nursing and related disciplines which enable the student to attain attitudes, knowledge and skills essential to the role development of a beginning practitioner. The graduate utilizes critical thinking, responsible decision making, and independent judgment to provide health care to a diverse and multicultural society in a variety of health care settings. The program provides a foundation for further education at the master's level and life-long learning activities.

Degree and Licensure:

Successful completion of the program leads to the degree bachelor of science in nursing (B.S.N.). After earning the the baccalaureate degree, graduates who are not registered nurses take the registered nurse examination for licensure which is administered by a State Board of Nurse Examiners.

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 of Professional Studies (See Chapter 4) and request admission to the Department of Nursing.

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 practicum at selected health agencies/institutions. Guidance for nursing students is provided by the Department of Nursing.

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.

B. Specialization: Biology: 50.173, 174, 240; Chemistry: 52.101, 108, 113; Psychology: 48.101, 110; Nursing: 82.210, 211, 212, 213, 311, 312, 410, 411, 412, 413; plus statistics and research literacy: 60.302

C. Free Electives: Free electives 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 attain a cumulative Q.P.A. of at least 2.50 to enroll in the sophomore year nursing courses and a minimum of "C" in all required courses.

Departmental Probation:

1. Students who do not meet the requirements listed under the policy for departmental good standing will be evaluated by the Committee on Student Admission; progression and retention and will be immediately placed on Departmental academic probation.
2. Students will be notified by the chairperson of the nursing department.
3. Students will be required to eliminate the identified deficiencies through a repetition of the course before progressing in the nursing program.
4. Nursing courses may be repeated only once. University policy as to repetition of non-nursing courses applies to the nursing department.
5. No student will be allowed to be on departmental probation for two consecutive academic periods or more than a total of three academic periods. If this occurs, the student will automatically be requested to take a leave of absence from the department.

Departmental Academic Leave of Absence:

1. A student who does not maintain departmental good standing requirements after one academic period on probation or a total of three academic probationary periods, will automatically be required to take a leave of absence from the department.
2. Students will be notified of such actions by the chairperson of the nursing department.
3. Students on a departmental academic leave of absence are ineligible to attend any courses offered by the department for a period of at least one calendar year. Students seeking reinstatement to active departmental status must do so in accord with the department's transfer policy.

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.

A suggested four-year sequence of the above requirements, planned for optimum systematic growth and development of students is as follows:

FRESHMAN YEAR

	semester hours
Fall	
50.173 Anatomy and Physiology I.....	4
52.101 Introduction to Chemistry.....	3
52.113 Chemistry Laboratory.....	2
48.101 General Psychology.....	3
20.101 English Composition I (or).....	3
20.104 Honors Composition	
05.000 Survival.....	1
	Spring Semester hours
50.174 Anatomy and Physiology II.....	4
52.108 Physiological Chemistry.....	4
45.211 Principles of Sociology.....	3
48.110 Life Span Psychology.....	3
20.201 English Composition II (or).....	3
20.200 Writing Proficiency Exam	
05.000 Survival.....	1
SOPHOMORE	
50.240 Introductory Microbiology.....	3
82.210 Nursing I.....	3
82.211 Nutrition.....	3
82.212 Pharmacology.....	3
--- Communication Elective.....	3
05.000 Survival.....	1
82.213 Nursing II.....	6
** Statistics.....	3
Quantitative-Analytical Elective or general education requirements.....	3
General Education Requirement.....	6
JUNIOR YEAR	
82.311 Nursing III.....	8
53.141 Values Elective.....	3
60.302 Research Literacy.....	3
82.312 Nursing IV.....	8
General Education Requirement.....	9
SENIOR YEAR	
82.410 Nursing V.....	6

82.411	Nursing VI.....	6
	* Free Elective.....	3
82.412	Nursing VII.....	8
82.413	Nursing Trends & Issues.....	3
	* Free Elective.....	3

Miscellaneous:

PLEASE NOTE: One mathematics course *may not* be used to satisfy both the quantitative requirement and a third discipline under Group C.

****STATISTICS** is a requirement within the core curriculum in nursing. The course in statistics may be selected from either the department of mathematics or psychology. The course may then be used to fulfill the quantitative requirement or a third discipline under group C.

University vehicles are available for student transportation to clinical laboratory experiences in the sophomore year. In the junior and senior year, students must provide 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.

COURSE DESCRIPTIONS

NURSING (Code 82)

* *Note: Courses within the Nursing Curriculum are restricted to students enrolled in the BSN program.*

82.210 NURSING I 3 semester hours

The focus of this course is on the roles of the professional nurse and the use of the nursing process. Content also includes the philosophy and conceptual framework of Bloomsburg University, department of nursing, health care delivery systems and the legal and ethical aspects of nursing practice.

Prerequisites: 50, 173, 174; 52.101, 108, 113; 48.101, 110; 45.211. Concurrent: 50.240.

82.211 NUTRITION 3 semester hours

This course is designed to provide an introduction to the principles of nutrition and ways in which these principles are applied to promote an optimal level of wellness for all individuals. Topics discussed include nutritional requirements for maintaining health and development throughout the lifespan as well as factors affecting food choices of individuals and society.

Prerequisites: 50.173, 174, 52.101, 108, 113. Concurrent 50.240

82.212 PHARMACOLOGY 3 semester hours

This course is designed to provide a basic foundation in pharmacology for pharmacologic content integration throughout the curriculum.

Prerequisites: 50.173, 174; 52.101, 108, 113. Concurrent 50.240

82.213 NURSING II 6 semester hours

The focus of this course is on the use of the nursing process to facilitate optimal level of wellness of individuals in a diverse and multicultural society in non-life threatening adaptive situations. The content is organized within the framework of the basic human needs of self-concept, security, mobility, nutrition/elimination and oxygenation and developed through application of the nursing process. Beginning role behaviors are applied in the clinical setting.

Prerequisite: 50.240; 82.210, 211, 212.

82.307 GERIATRIC NURSING 3 semester hours (Elective)

Focuses on the physiological, psychological, and social aspects of aging with emphasis on the assessment of problems and appropriate nursing intervention.

Prerequisite: Junior status

82.311 NURSING III**8 semester hours**

The focus of this course is on the use of the nursing process in helping individuals and families reach their optimal level of wellness as they adapt to chronic and potentially life-threatening situations. The content is organized within the framework of five basic human needs. Role behaviors continue to develop in clinical settings as the student develops a broader perspective of the client as an individual and a family.

Prerequisite: 82.213.

82.312 NURSING IV**8 semester hours**

The focus of this course is on the use of the nursing process to facilitate optimal level of wellness of beginning and developing families. Theories of growth and development and family developmental tasks provide the framework for planning and implementing nursing care with a diverse, multicultural client population. The students continue to develop in their role performance as they interact with clients and other health care providers to improve the quality of family health care.

Prerequisite: 82.213.

82.313 SPECIAL TOPICS**1-6 semester hours**

Presents a diversity of topics focusing on contemporary trends, issues, and problems relevant to the principles and practice of professional nursing within the health care system.

Prerequisite: Junior status

82.405 INDEPENDENT STUDY**1-6 semester hours**

Requires 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. It may be partly interdisciplinary.

Prerequisite: Senior Status.

82.410 NURSING V**6 semester hours**

The focus of this course is on the use of the nursing process in assisting the community with its adaptive responses to facilitate an optimum level of wellness of holistic man. The process of role development will be fostered through independent and interdependent activities with a variety of culturally diverse population aggregates in community settings.

Prerequisite: 82.311, 312.

82.411 NURSING VI**6 semester hours**

This course provides the student with a holistic focus on a diverse, multicultural client population at various points on the mental health/mental illness continuum. Relevant principles and theories of human behavior, adaption and therapeutic intervention provide a framework for the planning and implementation of nursing care. Students employ a "therapeutic use of self" as they implement the nursing process to assist individuals, families and communities in attaining and maintaining an optimal level of mental wellness. The role development of the student is enhanced through a variety of independent and interdependent activities with clients and the interdisciplinary team which are designed to improve the quality of mental health care.

Prerequisite: 82.311, 312.

82.412 NURSING VII**8 semester hours**

This course focuses on meeting the health care needs of a diversity of clients in complex and life-threatening adaptive situations. Students use developed skills in critical thinking in assisting these clients to attain and maintain an optimal level of wellness. They collaborate with clients and the interdisciplinary team in acute care and community settings in the implementation of preventive, restorative, and rehabilitative activities designed to maintain optimal health of holistic man. Learning experiences are provided so that the student can continue to develop proficiency as a clinician, teacher, and consumer of research. Emphasis is directed toward learning activities which allow the student to function as a leader and consultant, to improve the quality of health care.

Prerequisites: 82.311, 312

82.413 NURSING TRENDS AND ISSUES**3 semester hours**

This course is designed to explore the nature of professional nursing as it occurs in our society with particular reference to the health care system and the future. A seminar format is utilized in exploring and analyzing current issues and trends in professional nursing.

Prerequisites: 82.311, 312.

9.05 STUDENT AND COMMUNITY SERVICES IN THE SCHOOL OF EDUCATION

Curriculum Materials Center

The basic objective of the Curriculum Materials Center, housed in the McCormick Center for Human Services, is to locate, acquire, catalogue and make accessible curricular and instructional materials to preservice and inservice teachers. The resources housed in the center include elementary and secondary textbooks, curriculum and action guides, games, instructional materials kits, tests and computer software.

Multicultural Education Center

The Curriculum Materials Center provides a multicultural curriculum materials collection. The Center for Multicultural Education has also been charged with responsibility for conducting research, developing and distributing materials and coordinating programs in multicultural education and bilingual/bicultural education including courses which provide for cross-cultural contacts and working with ethnic organizations in Pennsylvania and throughout the country.

Reading Clinic

The Reading Clinic, located in Benjamin Franklin Hall, offers diagnostic evaluation of reading skills, including selected standardized reading tests, Lovell hand-eye coordination tests and tele-binocular examinations. After evaluation, remedial counseling and instruction are 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. In addition, the clinic provides classes in speed reading for university students. Each semester several sections of speed reading are offered on a "first come-first served" basis. Classes are limited to 10 students. Classes usually are held two or three days a week for six weeks. Dr. Edward J. Poostay is the director of the clinic.

Speech, Hearing and Language Clinic

This clinic, located in Navy Hall, provides a number of free services to students, faculty, staff and the total community. Services available include: speech, voice, language, hearing and hearing aid evaluation, educational-psychological training, speech reading, educational therapy for the hearing impaired and parent counseling. Dr. Richard M. Angelo is the director of the clinic.



10. SPECIAL PROGRAMS

10.1 AIR FORCE ROTC

Bloomsburg University participates with Wilkes College in an on-campus program which allows students to qualify for commissions in the United States Air Force upon graduation.

The Air Force Reserve Officers Training Corps (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 just the two-year POC program.

For acceptance into the POC, four-year program students must pass a physical examination, an officer qualification test, have attained an acceptable academic rating, and successfully complete a four-week field training course prior to their junior year.

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 successfully complete a six-week field training course. Transfer students may elect the two-year program if they satisfy the above requirements. Students interested in the two-year program should start the application process early in their sophomore year.

Members of either the four-year or two-year program are eligible to complete for AFROTC scholarships.

Uniforms, equipment and textbooks for the AFROTC work are supplied by Wilkes College and the United States Air Force. Students in the POC receive a \$100 per month allowance.

Students who successfully complete the POC are commissioned as second lieutenants in the United States Air Force Reserve. They serve on active duty in the Air Force as pilots, navigators, missileers or 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, 12 semester hours in the POC, and up to six in the field training program.

The field training required before entry into the POC is held at several operational bases each summer. Cadets have an opportunity to observe, fly and live with career personnel. Transportation to and from the legal residence of the cadet to the field training base, food, lodging, medical and dental care are provided by the Air Force. The cadet receives approximately \$400 for the four-week field training program or \$600 for the six-week program.

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.

AEROSPACE STUDIES

(Code 61)

GENERAL MILITARY COURSES

The general military courses (GMC) constitute a two-year program for freshmen and sophomores and are designed to provide general knowledge of the role, organization, mission, 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. Robert Cafazzo, Major Roman Luther, Capt. Charles Olander, Capt. Mark Zimmerman.

61.110 U.S. MILITARY FORCES IN THE CONTEMPORARY WORLD I 1 semester hour
Presents 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 semester hour
Reviews U.S. general purpose military forces; insurgency and counter-insurgency; aerospace support forces and organizations.

61.151 LEADERSHIP LABORATORY 0 semester hours
Involves a progression of experience designed to develop each student's leadership potential in a supervised training laboratory. Examines: Air Force customs and courtesies, drill and ceremonies, career opportunities, life and work of an Air Force junior officer. All AFROTC students, except those enrolled only in 61.230, 330, and 340, must elect this course.

61.210 THE DEVELOPMENT OF AIR POWER I 1 semester hour
Reviews air power development in historical perspective through the end of World War II; evolution of missions, concepts, doctrines, and employment with emphasis on changes in conflict and factors which have prompted technological developments.

61.220 THE DEVELOPMENT OF AIR POWER II 1 semester hour
Addresses 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.

61.230 BASIC ROTC CAMP 1-4 semester hours.
Includes leadership training, survival training, and fitness training. Offered after successful completion of freshman and sophomore courses and permission of instructor.

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 semester hours
Outlines fundamentals of organization and administration. The evolution of management thought including classical, behavioral and management science schools, study of information systems, quantitative approach to decision-making, policy formulation, principles and practices in planning, organizing, staffing, actuating, directing and controlling business and Air Force activities, resource control techniques, social and ethical issues within the management process and development of communicative skills.

61.320 CONCEPTS OF LEADERSHIP 3 semester hours
Studies Air Force leadership at the junior office level, including its theoretical, professional and legal aspects. Provides practical experience in influencing people, individually and in groups, to accomplish organizational missions effectively. Develops communicative skills.
Prerequisite: 61.310 or permission of instructor.

61.330 ADVANCED ROTC CAMP 1-6 semester hours
Includes leadership training, survival training, and fitness training. Offered in lieu of the freshman and sophomore courses for transfer students and other students who enter the program at the junior level.

61.340 FLIGHT PROGRAM GROUND TRAINING 1 semester hour
Prepares AFROTC cadets and others for FAA private pilot examination through study of general regulations, air traffic rules, accident reporting, air navigation, weather, safety, principles of flight, basic operations, flight computer. Limited spaces beyond AFROTC requirements are available to all Bloomsburg juniors and seniors without incurring military obligations. Two hours of class/laboratory per week.

61.410 NATIONAL SECURITY FORCES IN AMERICAN SOCIETY I 3 semester hours

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 communicative skills.

Prerequisite: 61.320 or permission of the instructor.

61.421 NATIONAL SECURITY FORCES IN AMERICAN SOCIETY II 3 semester hours

Studies the problems of developing defense strategy in a rapidly changing technological environment effective deterrent posture and management of conflict; dynamics and agencies of defense policy-making analyzed through case studies.

Prerequisite: 61.410 or permission of the instructor.

Army ROTC

Bloomsburg University of Pennsylvania students can qualify for a commission in the U.S. Army, Army National Guard or Army Reserve through the on-campus Army ROTC program. The first two years of the program may be taken with out military obligation.

Army ROTC provides a four-year curriculum open to both men and women regardless of academic major or area of study. 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. Academic credit is given for all these courses. The basic program does not require the student to make any commitment with the U.S. Army and allows the student to develop an understanding of the role of the commissioned officer within the Army. Course work provides training in leadership and management skills which help the individual develop the ability to communicate effectively, think analytically and make independent and responsible decisions.

Bloomsburg students are able to compete for Army ROTC scholarships which pay full tuition and other educational fees. All students enrolled in the advanced program receive \$100 a month for the 10 month period during the school year. After completing the first year of the advanced program (normally between the junior and senior years) the student will attend an advanced camp at Fort Bragg, North Carolina. Payment during this camp is at a rate equivalent to one-half the basic pay for a second lieutenant together with allowances for travel, subsistence, housing, uniforms and medical care.

Veterans can be considered immediately for the advanced program by receiving constructive credit for the first two years of the Army ROTC. Other students who did not take ROTC during their freshman and sophomore years can still qualify for the advanced program if they have two years remaining at Bloomsburg. There are a variety of programs available to qualify these students for the advanced program.

Army ROTC also offers a ranger detachment for students who wish to gain more experience in outdoor activities, e.g. orienteering and survival skills.

The Army National Guard and Army Reserve conduct a program in coordination with Army ROTC at Bloomsburg. This simultaneous membership program allows a student to earn more than \$12,000 while participating in the program and gaining a commission as a second lieutenant in the Army National Guard or Reserve.

Successful completion of the ROTC Advanced Program leads to a commission as a second lieutenant in the U.S. Army, Army Reserve or Army National Guard. Active duty time will vary according to the type of program the student has elected and students can be guaranteed Reserve/National Guard duty if they desire.

MILITARY SCIENCE

Co-adjutant Instructors in Military Science:

Lt. Col. Thomas H. Eller, Jr., Director of Military Science; Capt. Michael J. Zurat; Capt. Donald R. Richards.

10.2 ARMY ROTC

Basic Program (Freshman and Sophomore years) (Code 67)

- 67.110 INTRODUCTION TO MILITARY SCIENCE** **1 semester hour**
Presents an overview of the Army ROTC four-year program and the scholarship opportunities available to ROTC cadets. Provides an overview of military skills including land navigation, map reading, rappelling and practical field training.*
- 67.120 INTRODUCTION TO MILITARY ISSUES** **1 semester hour**
Presents a discussion of the role of the U.S. Army, the Army Reserve, the Army National Guard as well as an in-depth look at the organization and missions of Army units from squad through division. Practical experience will include use of military radios, small unit tactics, rappelling, and practical field training.*
- 67.210 APPLIED LEADERSHIP AND MANAGEMENT I** **1 semester hour**
Provides an overview of the Army rank structure and a specific survey of the junior officer's duties and responsibilities within that rank structure. Practical training will consist primarily of advanced land navigation skills building on those skills mastered in 67.110 with further field navigation experience as well as rappelling and practical field training.*
- 67.220 APPLIED LEADERSHIP AND MANAGEMENT II** **1 semester hour**
Presents the fundamentals of small unit leadership and mission planning techniques to include the reverse planning process and problem solving techniques. The course will also provide an overview of the branches of the Army and service pay and benefits. Practical experience will apply the principles learned to a field environment.*

*Note: conducted during leadership laboratory and consists of adventure/survival training, land navigation, first aid and dismounted drill exercise which cannot be conducted in the classroom.

- 67.230 ROTC BASIC CAMP** **4 semester hours**
sophomore summer semester
This course is offered in lieu of the basic course for transfer students and other students who wish to enter the advanced program. The camp is held each summer at Fort Knox, KY, and is six weeks in duration. Subjects presented coincide with those described above and include such survival skills as map reading (with extensive practical application); first aid, including the four lifesaving steps; plant identification, and personal hygiene in the field environment. Stresses skills applicable to lifelong recreational pursuits and fitness.

Advanced Program (Junior and senior years)

- 67.310 ADVANCED MILITARY SCIENCE I** **3 semester hours**
Provides a detailed study of the leadership techniques and principles introduced in 67.220. The course will rely on case studies drawn from experience of active duty lieutenants and will place cadets in role model situations to provide first hand experience in problems of small unit leadership.**
- 67.320 THEORY AND DYNAMICS OF THE MILITARY TEAM** **3 semester hours**
Applies the techniques learned in 67.310 to a detailed study of the principles of war, the Geneva and Hague Conventions and small unit tactics. The course will include an analysis of the Soviet and Warsaw Pact Forces and current U.S. Doctrine to counter the threat posed by those forces.**

67.330 ROTC ADVANCED CAMP**6 semester hours**

A six week practical application and evaluation phase required of each cadet prior to commissioning. Advanced camp, conducted at Fort Bragg, NC, places cadets in leadership positions where they must put into practice the techniques learned on campus in both tactical and non-tactical situations. Advanced camp also affords cadets the opportunity to develop skills in the area of survival, fitness and life-long recreational skills in both formal and informal settings of the 337 hours of formal training at advanced camp, 152 or 45%, have application to these three key areas.

67.410 ADVANCED LEADERSHIP AND MANAGEMENT I**3 semester hours**

Presents advanced leadership and management skills required of a manager in a military environment. Students will perform roles in management of a military organization utilizing course presented skills in administration, training, conduct of meetings, briefings and logistics.**

67.420 ADVANCED LEADERSHIP AND MANAGEMENT II**3 semester hours**

Acquaints the students, through a series of case studies and role playing simulations, with the high ethical standards required of a manager and leader. Additionally, students will learn the basic principles and procedures of military law and their application in a military environment. Students will continue to perform roles in management of a military organization utilizing skills developed in prior military science courses.**

**Note: Cadets will gain further practical leadership training during leadership laboratory while performing in leadership positions and conducting training.

Marine Platoon Leaders Program

This is 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 University of Pennsylvania.

Programs for aviation are also available.

Contact person: E.M. Hatcher, Captain, Veteran's Administration Building, North Main Street, Wilkes-Barre, PA 17801 (717)823-4131.

10.3 UPWARD BOUND

The university presents the opportunity for ninth and tenth grade students from participating high schools to enroll in the Upward Bound Program. Participation may continue through the summer following high school graduation. 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 academic performance. 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 residential experience on the university campus. This experience provides concentrated academic work, plus planned recreational, social and cultural experiences both on and off campus.



11. SCHOOL OF EXTENDED PROGRAMS

11.1 ORGANIZATION AND FUNCTION

The School of Extended Programs administers and coordinates university-wide efforts to provide life-long education for citizens of the Central Susquehanna Valley region.

The school also facilitates and coordinates the operation of the offices of international education, summer sessions, experiential learning, internships, public service mini-courses conferences and workshops.

11.2 PROGRAMS

Non-Degree Credit Program

Based on the assumption that learning should be a life-long process, the non-degree credit program provides for enrollment by an individual in regular undergraduate credit courses without formal admission to the university 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. Courses are also offered at off-campus locations.

Credit earned in appropriate courses taken as a non-degree student may be applied later to a regular degree program if the individual seeks and is granted formal admission to a degree program in the university. Courses taken by non-degree students can also be used for a variety of designated certificate programs and to meet undergraduate deficiencies for graduate study. (The School of Graduate Studies has its own non-degree regulations. See the Graduate Bulletin.)

Noncredit Mini-Courses

Noncredit mini-courses provide opportunities for individuals to gain specialized knowledge and/or skills for career purposes or to pursue cultural, recreational and special interests through short-term experiences without credit.

These courses reflect expressed community needs. A nominal course fee is charged.

Attendance Fee Program

The Attendance Fee Program allows individuals to attend classes without credit. Admission on this basis depends upon available space and the payment of a \$25 fee per course. Courses attended through this process do not generate college credit for the attendee.

11.3 ADMISSION PROCEDURES FOR NON-DEGREE

Credit Students

Admission to the non-degree credit program is open to all high school graduates or those holding GED credentials; no standardized test scores are required.

Application forms may be obtained from the Dean of Extended Programs or the Office of Admissions and are filed with the Office of Admissions. Supporting credentials are required as follows:

(a) Adults who desire to enroll as part-time students must complete a non-degree application form which requires affirmation 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 for transfer to the home institution must complete a non-degree application form which requires affirmation of attendance at another institution of higher education. It is recommended that the applicant make certain that course work pursued at Bloomsburg University will be accepted by the home institution.

(c) A high school student who desires to combine college work with high school must file a high school transcript, junior year SAT scores, if applicable, 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 Programs by an appropriate graduate adviser to pursue such undergraduate courses as recommended.

(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 of 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 certification must submit a transcript from the institution granting the baccalaureate degree and be recommended to the School of Extended Programs by the Dean of the College of Professional Studies.

(g) Senior citizens who are retired, over 60 years of age, legal citizens of the U.S. and residing in the Commonwealth of Pennsylvania and eligible to apply for a waiver of basic and/or tuition fees through the School of Extended Programs. Students in this category may be admitted to classes on a seat available basis only.

11.4 ADMISSION TO MINI-COURSES AND ATTENDANCE FEE PROGRAMS

Individuals who wish to take advantage of the mini-course or attendance fee programs are not required to file credentials; in most cases the only formality is that of registration for the course(s) desired.

11.5 ACADEMIC ADVISEMENT IN THE SCHOOL OF EXTENDED PROGRAMS

Students who are pursuing coursework for teacher certification are assigned to academic advisers in the College 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 College of Extended Programs and Graduate Studies.

11.6 SUMMER SESSIONS

Undergraduate and graduate courses are offered during the summer sessions at both on-campus and off-campus locations. Students may schedule as many semester hours in a session as the number of weeks in that session. An overload requires the approval of the appropriate college dean in keeping with university policy on normal load and overload.

Undergraduate courses are open, without formal application, to regularly enrolled students of Bloomsburg University 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.

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 programs 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.

11.7 INTERNATIONAL EDUCATION

The International Education Program advises international students and coordinates university-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, each summer, a center for study at Salzburg, Austria.

Students interested in international education programs at Bloomsburg and/or other institutions are referred to the director of international education.

11.8 INTERNSHIPS - COOPERATIVE EDUCATION

The Internship-Cooperative Education Program provides opportunities for students to combine academic experience with on- or off-campus work experience. The program, which for most students is optional, is coordinated by the Academic Coordinator and Cooperative Education Director and administered by the academic departments. The program provides opportunities in business, industry, and the public sector. Additional placements may be made with state government through the Capital Internship Program.

Internships are also available in association with the International Education Program. One such opportunity is a program providing a semester at the Commercial Institute of the University of Nancy (France), combining academic seminars and practical internships in French businesses. This program is available to students with a good preparation in French, who are interested in or majoring in business.

Inquiries regarding specific internship programs, available internship opportunities, credit and approval procedures should be directed to the Academic Coordinator of Internships or the Department Chairperson in the student's major area of study.

11.9 EXPERIENTIAL LEARNING

In an effort to provide for those who have, as a course of their life experience, obtained knowledge and skills applicable to a college experience, Bloomsburg University provides the opportunity for Experiential Learning assessment. Through this process, life experiences are evaluated to determine their appropriateness and applicability for university credit. For details regarding this process see the dean of Extended Programs.

11.10 CONFERENCES AND WORKSHOPS

The university serves the educational requirements of professional, educational, governmental, business, and other community groups by offering the use of its campus facilities for conferences and workshops predominantly during the summer season (late May through mid-August). These conferences may be residential or commuting in nature.

Responsibility for scheduling and hosting summer conference groups rests with the School of Extended Programs. Organizations interested in holding such a conference at Bloomsburg should contact the School of Extended Programs.



12. GRADUATE STUDIES

12.1 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. Programs were added subsequently leading to the Master of Business Administration degree (in 1976) and a Master of Science degree in Nursing (in 1983).

The objective of the program for the Master of Education degree 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 university pledges itself to a continuous review of the needs for graduate education in the geographic region it serves. For a more complete explanation of the graduate programs, please refer to the Graduate Bulletin.

12.2 SCHEDULES OF CLASSES

Graduate classes taught in the regular academic year are usually scheduled in late afternoons, evenings and on 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.

12.3 GRADUATE CATALOGUE/BULLETIN

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



Organizations and Agencies in Partnership with Bloomsburg University

Abington Memorial Hospital
The Academy of Natural Sciences
Action Rehabilitation
Aetna Life Insurance
Allentown School District
Allied Services for Handicapped
American Red Cross
American Theatre Association, Inc.
Audiology Association of Wilkes-Barre
Berks County Intermediate Unit #14
Berks Heim
Berwick Area School District
Berwick Hospital
Bethlehem Area School District
Blast Intermediate Unit #17
Bloomsburg Area School District
Bloomsburg ENT
Bloomsburg Health Care Center
Bloomsburg State Health Department
Bloomsburg University Student Health Center
James V. Brown Library, Williamsport
Bucknell University
Capital Area Intermediate Unit #15
Catasauqua School District
Central Columbia School District
Central Dauphin School District
Central Susquehanna Intermediate Unit #16
Chemical Abstracts Service (CAS)
CIA - Central Intelligence Agency
Columbia Day Care Program, Inc.
Columbia-Montour Area Agency on Aging
Columbia-Montour Home Health
Columbia-Montour Tourist Promotion Agency
Common Cause
Community Friends School, Millville
Commonwealth of Pennsylvania
Community Jobs
Danville Area School District
Danville State Health Department
Danville State Hospital
Day Care Centers, Danville
The Devereaux Foundation
Divine Providence Hospital Library
Dow Jones Newspaper Fund
Early Intervention Center
Easter Seal Child Development Center
Easton Area School District
Earth Watch
Education Programs Abroad (EPA)
Evangelical Hospital, Lewisburg
Fairview Lake Outdoor Education Center
FBI - Federal Bureau of Investigation
Federal Communications Commission (FCC)
Geisinger Medical Center
Girard Bank
Girton Manufacturing Company
Good Shepherd
Harrisburg City Schools
Harrisburg Hospital
Harry Ness and Company
Hazleton Child Development
Hazleton Area School District
Head Start, Danville
Hershey Entertainment & Resort
Hershey Medical Center
Hess's
The Institute of European Studies
Interns for Peace
Japan Internships (Theatre/Art)
John Heinz Institute
Katzenbach School for the Deaf
Lehigh Valley Hospital Center
Lock Haven University Library
Lower Bucks Hospital
Lutron Electronics Company, Inc.
Luzerne Intermediate Unit #18
Lycoming College Library
Magic Carpet Preschool
Mansfield University Library
Medical College of Pennsylvania
Millville Area School District
Milton Area School District
Montgomery County Intermediate Unit #23
Mount Sinai Medical Center of New York City
Muncy Prison
National Agri-Marketing Association
National Consumer Affairs
National Fishery Research and Development
Laboratory, Wellsboro
National Institute of Health
National Oceanic & Atmospheric
Administration
National Park Service
National Society for Internships &
Experiential Education
NBC
North Central Hearing Association
North Central Secure Treatment Unit
Northeastern Pennsylvania Philharmonic
New York City Urban Fellows Program
Offset Paperback Manufacturers, Inc.
Peace Corps
Pennsylvania for Effective Government
Pennsylvania Historical & Museum Commission
Pennsylvania School for the Deaf
Pennsylvania State Government Internships
Polyclinic Hospital, Harrisburg
PP&L Susquehanna Training Center
Reading Hospital
Reading Rehabilitation Hospital
Robert Packer Hospital, Sayre
Sacred Heart Hospital
St. Joseph's Hospital
St. Luke's Hospital

Saint Regis Corporation
San Francisco Art Institute
Schuylkill Intermediate Unit #29
Scranton ENT Group
Scranton Medical Technology Consortium
Scranton State School for the Deaf
Selingsgrove Center
Shamokin Area School District
Shared Medical Systems
Shikellamy Area High School
Slifer House Museum
Smithsonian Institute
Soldiers and Sailors Memorial Hospital,
Wellsboro
Southern Columbia Area School District
Spring Mills School District
State Civil Service Commission
of Pennsylvania
State Health Department
Student Conservation Association, Inc.
Suncom Agencies for Handicapped,
Northumberland
Sun Home Health
Susquehanna Legal Services

Susquehanna Sound
Susquehanna University
The Teacher Intern Program
United Methodist Home, Lewisburg
United Penn Bank
United States Air Force
U.S. Government/Department of Internal Affairs
U.S. Department of Commerce
United Way
V.A. Hospital, Wilkes-Barre
Warrior Run Area School District
Washington Center
Wassaic Developmental Center
WBRE-TV
WCAU-TV
Wilkes-Barre General Hospital
Wilkes-Barre Speech & Language Clinic
Williamsport Area School District
Williamsport Area Community College
Williamsport Hospital
Wilmington Medical Center
WVIA-TV
WVIA-90 FM
YMCA of Bloomsburg



INDEX

Academic Advisement	61, 86, 244	Business Ad., Finance	188
Academic Dismissal	70	Business Ad., Information Processing	188
Academic Good Standing	68	Business Ed., Information Processing	191
Academic Grievances	53	Business Ad., Management	188
Academic Minors	88	Business Ad., Marketing	189
Academic Policies	61	Business Ed., Marketing	191
Academic Probation	69	Business, Office Administration	191
Academic Review Board	70	Business Ed., Secretarial	190
Accreditation, General	30	Business Law	199
Accreditation, Teacher Education	202	Calendar	4
Administration	7	Campus Visits	56
Admission Criteria	55	Career Concentrations	89
Admission, Non-degree	243	Career Development	51
Admission Procedures	55	Carver Hall	33
Advanced Placement	58	Centennial Gymnasium	31
Advanced Standing for Military Service	58	Center for Academic Development	56
Air Force ROTC	237	Cheating and Plagiarism	71
Allied Health Sciences	226	Chemistry	104
Ambulance Service	48	Chemistry, Secondary Educ.	218
Andruss Library	33	Child Care Center	53
Anthropology	90	Class Standing	65
Appeals for Reinstatement	70	Clinics	227
Application for Admission	55	Coaching, Secondary Educ.	221
Archives	34	College of Arts and Sciences	87
Army ROTC	239	College of Business	187
Art	93	College of Professional Studies	201
Art Gallery	50	Commons, Dining	32
Arts and Sciences, College of	87	Communications Disorders	205
Arts and Sciences, Honors Program	86	Communications, Secondary Educ.	219
Art Collection	50	Communications Studies	107
Arts Council	50	Community Activities Fee	37
Associate Degree	72	Community Government Association	43
Athletics	33, 52	Computer and Information Science	114
Attendance	66	Computer Services	35
Attendance Fee Program	243	Comprehensive Social Studies, Secondary Education	220
Audiology	208	Conference Workshops	245
Auditing of Courses	65	Cooperative Education	245
Automobile Registration	52	Correspondence, Instruction for	55
Bakeless Center for the Humanities	30	Counseling	49
Benjamin Franklin Hall	31	Course Load	64
Biological and Allied Health Sciences	98	Courses, Repeating of	64
Biology, Secondary Education	218	Credit by Examination	64
Bloom Magazine	45	Credit, Definition of	69, 75
Bloomsburg Foundation	34	Curriculum Materials Center	235
Bloomsburg Location and Description	29	Dental Hygiene	229
Books and Supplies	40	Developmental Courses	75
Buckalew Place	33	Dining Commons	32, 47
Buildings and Facilities	30	Dismissal Academic	69
Business, College of	187	Dismissal Appeals	70
Business Ad. Accounting	188	Early Dismissal	56
Business Ed. Accounting	190	Early Childhood and Elementary Education	211
Business Administration	187	Earth and Space Science, Secondary Education	219
Business Ad. Computer and Information Systems	189	Economics	115
Business Education	190	Education, School of	201
Business Ed. Comprehensive	190	Educational Foundations	209
Business Education, Certification	190	Education of Hearing Impaired	207
Business Ad., Economics	188		

Elementary Education	211	Journalism	118
Engineering and Liberal Arts	119	Kehr Union	32, 46
English	122	Languages and Cultures	147
English, Secondary Education	219	Learning Resources Center	34
Evaluation Criteria	55	Leave of Absence	57
Examination Policy	72	Library	33
Experiential Learning	245	Litwhiler Field	34
Extended Programs, School of	243	McCormick Center for Human Services	31
Faculty	10	Marine Science Consortium	132
Faculty, Adjunct	26	Mass Communication	104
Faculty Emeriti	28	Mathematics and Computer Science	155
Fees, Community Activities	37	Mathematics, Secondary Educ.	220
Fees, Diploma	39	Medical Technology	226
Fees, Graduate Student	37	Minimal Progress	69
Fees, Housing	38	Mini-Courses	243
Fees, Late Registration	39	Music	160
Fees, Orientation	39	Multicultural Ed. Center	235
Fees, Out-of-State Students	37	Natural Sciences/Mathematics	77
Fees, Part-time Students	37	Navy Hall	31
Fees, Payment of	38	Nelson Fieldhouse	31
Fees, Refunds	39	Non-credit Courses	243
Fees, Summer Sessions	37	Non-degree programs	243
Fees, Transcript	39	Nursing	231
Final Examination Policy	72	Obiter	45
Financial Aid	41	Organization of the University	29
Fraternities	46	Orientation	49, 57
French, Secondary Education	219	Overload	64
Full-time Student, Definition	66	Part-time Student, Definition	65
General Education Requirements	76	Pass-Fail	63
General Sciences, Secondary Educ.	220	Philosophy	167
Geography and Earth Science	128	Physics	169
Geology	128	Physics, Secondary Educ.	200
Good Standing	68	Pilot	45
Governors, Board of	3	Political Science	173
Grades, Change of	68	Post-Office	50
Grades, Definition	66	Pre-Professional and Career Advisement	88
Graduate Catalogue	247	Pre-cytotechnology	229
Graduate Courses in Senior Year	72	Pre-dentistry	89
Graduate Degrees	247	Pre-law	89
Graduate Studies	247	Pre-medicine	89
Graduation Requirements	72	Pre-occupational Therapy	229
Haas Center for Arts	32	Pre-optometry	89
Hartline Science Center	31	Pre-pharmacy	89
Health, Physical Education and Athletics	133	Pre-physical Therapy	229
Health Center	47	Professional Studies, College of	201
Health Record	58	Professional Studies Services	235
Health Service Fee	39, 47	Programs Abroad	147
Health Services Associate	228	(See Languages and Cultures)	
Health Sciences, School of	226	Progress Information	66
History	137	Psychology	177
History of the University	29	Publications	45
Honors	68, 88	Quality Point Average, Definition	67
Housing	42	Quality Points	67
Humanities	77	QUEST	51
Independent Study	89	Radiologic Technology	228
Insurance	48	Reading Clinic	235
Interdisciplinary Studies	143	Readmission of Former Students	57
International Education	245	Recreation	52
Internships	85, 245	Recreation Areas	33
Interpreter Training	209	Redman Stadium	33
Intramurals	52	Refunds	40

Registration Policies	61	Student Publications	45
Representative Assembly	53	Student Responsibility	61
Residence Requirement	71	Student Teaching Centers	204
Residence Halls	31	Student Union	47
Retention Policies	69	Student Financial Aid	41
ROTC Air Force	237	Student Grievance Policy	53
ROTC Army	239	Summer Sessions	244
Schedule Change	62	Sutliff Hall	31
Scheduling	61	Teacher Educ. Admission	203
School of Education	201	Teacher Educ. Certification	203
School of Extended Programs	243	Teacher Educ. Degrees	204
School of Health Sciences	201, 226	Teacher Educ. Field Experience	204
School of Graduate Studies	247	Teacher Educ. Retention	204
Scranton Commons	32	Teacher Educ. Student Teaching	204
Second Baccalaureate Degree	72	Testing Programs	49, 55, 58
Secondary Education	218	Theatre	107
Secondary Ed., Areas of Concentration	218	Transfer Credit Evaluation	71
Semester Hour, Definition	64	Transfer Student, Admission	56
Services	47	Trustees, Council of	5
Social Sciences	77	University Policy	41
Sociology and Social Welfare	181	Undergraduate Curricula	75
Sororities	46	University Services	27
Spanish, Secondary Educ.	221	University Store	32, 50
Special Education	223	Upward Bound	241
Speech Communication	107	Veterans	51
Speech, Hearing and Language Clinic	235	Voice, The	45
State System of Higher Education	3	Waller Administration Building	32
Student Insurance	48	Withdrawal from University	57, 62
Student Life and Services	41	Withdrawal from Course	62
Student Organization	44		







