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STATE UNIVERSITY OF
NEW YORK

College at Buffalo



GENERAL CATALOG

1964 - 1965

BUFFALO, NEW YORK

Significant Dates in the History of the College

- | | |
|--|--|
| <p>1867 Legislature created the Normal School at Buffalo</p> <p>1871 Henry B. Buckham appointed Principal, school opened with three departments, Normal, Collegiate, Scientific</p> <p>1873 First graduating class—23 graduates</p> <p>1886 James M. Cassety appointed Principal</p> <p>1895 Three-year "Primary and Kindergarten Course" initiated</p> <p>1906 Manual Arts department established</p> <p>1909 Daniel Upton appointed Principal</p> <p>1910 Household Arts Department established</p> <p>1915 Edward H. Butler, Jr. succeeds Edward H. Butler as President of Local Board</p> <p>1919 Harry W. Rockwell appointed Principal</p> <p>1919 Home Economics Program became four-year course leading to Bachelor of Science in Home Economics</p> <p>1920 Manual Arts Department changed to Industrial Arts Department</p> <p>1925 Normal course became four-year program leading to Bachelor of Science in Education</p> <p>1928 Name changed to New York State College for Teachers; Principal changed to President; accredited by American Association of Teachers Colleges</p> <p>1930 Art Education Department established</p> <p>1931 Moved to present campus</p> <p>1939 Accredited by American Association of University Women</p> <p>1944 Exceptional Children Education Division established</p> <p>1945 Master of Science Degree authorized</p> <p>1948 State University of New York established; College accredited by Middle States Association of Colleges and Secondary Schools</p> <p>1951 President Harry W. Rockwell retired; Dean Ralph Horn became Acting President; Harvey M. Rice appointed President</p> <p>1958 President Harvey M. Rice resigned; Dean Ralph Horn became Acting President</p> | <p>1958 Approval of Secondary Teacher Education Curricula in Mathematics and Science</p> <p>1959 Kate Butler Righter appointed Chairman of Local Council</p> <p>1959 Dean Ralph Horn, Acting President retired; Paul G. Bulger appointed President</p> <p>1959 Name changed to State University College of Education at Buffalo</p> <p>1961 Name changed to State University College at Buffalo</p> <p>1962 Approval of Secondary Teacher Education Curriculum in English</p> <p>1962 Approval of Secondary Teacher Education Curriculum in Social Studies</p> <p>1963 Liberal Arts Degree Program Begun</p> <p>1963 Kate Butler Righter re-appointed Chairman of Local Council</p> <p>1964 Approval of Secondary Teacher Education Curriculum in Foreign Language</p> <p>1964 Approval of Vocational Technical baccalaureate curriculum</p> |
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* Refer to Graduate Division Bulletin

State University of New York

BOARD OF TRUSTEES

FRANK C. MOORE, LL.B., L.H.D., LL.D., <i>Chairman</i>	Indian Lake
MRS. JOHN A. WARNER, <i>Vice-Chairman</i>	New York City
WARREN W. CLUTE, JR.	Watkins Glen
MRS. BETTY HAWLEY DONNELLY	New York City
LESTER B. GRANGER, A.B., D.H.L., LL.D.,	New York City
SAMUEL HAUSMAN	Great Neck
MORRIS IUSHEWITZ	New York City
EDWIN F. JAECKLE, LL.B., LL.D.	Buffalo
CLIFTON W. PHALEN, B.S., LL.D.	Plandome
MRS. MARGARET T. QUACKENBUSH, A.B.	Herkimer
JOHN A. ROOSEVELT, A.B.	Hyde Park
OREN ROOT, A.B., LL.B., LL.D.	New York City
JAMES J. WARREN, L.H.D.	Albany
DON J. WICKHAM, B.S.	Hector
(One appointment pending)	

President of the University — SAMUEL B. GOULD, A.B., M.A., LL.D.

Vice President of the University — J. LAWRENCE MURRAY

College Calendar

FALL SEMESTER — 1964

Wednesday,	Sept. 9	Graduate & Extension Registration
Thursday,	Sept. 10	New Student Days and Orientation of Students and Faculty
Friday,	Sept. 11	
Saturday,	Sept. 12	
Sunday,	Sept. 13	
Monday,	Sept. 14	
Tuesday,	Sept. 15	Registration
Wednesday,	Sept. 16	Registration
Thursday,	Sept. 17	Registration
Monday,	Sept. 21	Classes Begin
Friday,	Oct. 2*	SUNY Meeting
Monday,	Oct. 26*	Western Zone
Tuesday,	Nov. 24	Last Day of Classes Before Thanksgiving Recess
Monday,	Nov. 30	Classes Resume
Friday,	Dec. 18	Last Day of Classes before Christmas Recess
Monday,	Jan. 4	Classes Resume
Friday,	Jan. 22	Last Day of Classes—Fall Semester
Monday,	Jan. 25	Final Examinations Begin
Friday,	Jan. 29	Fall Semester Ends

SPRING SEMESTER — 1965

Saturday,	Jan. 30	Graduate & Extension Registration
Monday,	Feb. 8	Registration
Tuesday,	Feb. 9	Registration
Wednesday,	Feb. 10	Registration
Thursday,	Feb. 11	Classes Begin
Saturday,	Feb. 20	Midyear Commencement
Monday,	Mar. 15*	Classes Not in Session
Thursday,	April 15	Last Day of Classes Before Easter Recess
Monday,	April 26	Classes Resume
Friday,	May 28	Last Day of Classes—Spring Semester
Monday,	May 31	Final Examinations Begin
Friday,	June 4	Spring Semester Ends
Saturday,	June 5	Commencement

*Classes not in session.

The College

LOCAL COUNCIL

	Term Expires
MRS. JAMES H. RIGHTER, <i>Chairman</i>	1972
MRS. JOHN R. CAMPBELL	1971
JOSEPH L. FINK	1970
JOSEPH F. HIGGINS	1966
PATRICK H. HODGSON	1967
DAVID J. LAUB	1969
MRS. JAMES C. LYTLE	1965
MRS. HENRY Z. URBAN	1968
(One appointment pending)	

ADMINISTRATION

PAUL G. BULGER, B.S., M.S., Ed.D.	<i>President of the College</i>
RICHARD L. WHITFORD, B.A., Dip.Ed., B.Ed., C.A.S., M.A., Ed.D.	
<i>Assistant to the President and Director of International Education</i>	
HOUSTON T. ROBISON, B.S., M.S., Ph.D.	<i>Dean of Instruction</i>
VAN E. QUAAL, B.A., M.A., Ed.D.	<i>Associate Dean of Instruction</i>
CHARLES P. LAMORTE, B.A., M.A., Ed.D.	<i>Dean of Students</i>
JEROME E. BARTOW, B.A., M.A.	<i>Associate Dean of Students</i>
ANGELA R. PALMIERI, B.S., M.A.	<i>Associate Dean of Students</i>
E. WILLIAM BAKER, JR., B.A., M.A.	<i>Director of Business Affairs</i>
JAMES M. CAPUTI, B.A.	<i>Senior Financial Secretary</i>
CHARLES E. BALL, B.S., M.A., Ed.D.	<i>College Plant Planning</i>
	<i>Coordinator</i>
SILAS R. MOLYNEAUX, B.A., M.A.	<i>Director of Public Information</i>
STANLEY A. CZURLES, B.F.A., M.F.A., Ph.D.	<i>Director of Art</i>
	<i>Education</i>
WALTER B. GREENWOOD, B.A., M.A., Ph.D.	<i>Acting Director of</i>
	<i>Arts and Sciences</i>

LORRAINE A. LANGE, B.A., M.A., Ph.D. *Director of Elementary Education*
 HORACE MANN, B.A., M.A., Ph.D. *Director of Exceptional Children Education*
 DAVID A. ROGERS, B.A., M.A., Ph.D. *Director of Graduate Studies*
 MARGARET A. GRANT, B.S., M.S., Ed.D. *Director of Home Economics Education*
 SHERMAN F. DREYER, B.S., M.S., Ph.D. *Director of Industrial Arts Education*
 ALLEN G. SEXTON, B.S., M.A., Ed.D. *Director of Secondary Education*
 STEVEN GITTLER, B.A., M.A., Ed.D. *Director of Summer Session*
 WALTER J. ZIMMERMAN, B.S., Ed.M., Ed.D. *Director of Vocational Technical Education*
 EDDIE E. SAGE, B.A., M.A., Ed.D. *Chairman of Education Department*
 J. STEPHEN SHERWIN, B.S., M.A., Ed.D. *Chairman of English Department*
 ALFRED W. BECKER, B.A., M.A., Ph.D. *Chairman of Foreign Language Department*
 JOSEPH A. FEKETE, B.A., M.A., Ph.D. *Chairman of Geography Department*
 JAMES L. SELLS, B.S., M.S., Ed.D. *Chairman of Health, Physical Education and Recreation Department*
 CECIL T. RODNEY, B.S., M.A., Ed.D. *Chairman of Mathematics Department*
 SILAS L. BOYD, B.A., B.Mus.Ed., M.A., D.Mus.Ed. *Chairman of Music Department*
 NICHOLAS G. FOTION, B.S., M.A., Ph.D. *Chairman of Philosophy Department*
 THEODORE E. ECKERT, B.A., M.S., Ph.D. *Chairman of Science Department*
 RICHARD C. BROWN, B.S., M.A., Ph.D. *Chairman of Social Studies Department*
 GEORGE R. BAEUMLER, D.D.S., M.D. *College Physician*
 PHILIP R. BONNER, B.S., M.A., Ed.D. *Director of Admissions*
 JOSEPH P. CANNAMELA, A.S., B.S. *Food Services Manager*

ARTHUR B. CLARK, III, B.A., M.A. *Assistant Coordinator of Financial Aids*
 HILMA M. COOK *Executive Secretary, Alumni*
 DOROTHY B. DEERING, B.S. *Dietitian*
 JOHN M. DOOD, B.S., M.S., Ed.D. *Director of Child Study Center*
 DOROTHY E. EELLS, B.A., M.A. *Registrar*
 CHARLOT M. FETTERMAN, B.S. *College Store Manager*
 CARYL G. HEDDEN, B.S., M.S., Ed.D. *All-College Coordinator of Student Teaching*
 TO BE APPOINTED *College Librarian*
 MONICA M. GENSBITTEL, B.S., M.S. *Assistant Librarian*
 KATHRYN S. GRAHAM *Secretarial Assistant to the President*
 ROBERT E. JOHNSON *Corporation Accountant*
 ELSIE U. KAYE, B.A., B.Lit. *Assistant to Director of Public Information*
 LENORE KEMP, B.S., B.S.L.S. *Associate Librarian*
 EDNA M. LINDEMANN, B.S., M.A., Ed.D. *Coordinator of Special Projects*
 WINIFRED G. MERNAN, M.D. *College Physician*
 MARY ANN MONROE, B.S., M.S. *Coordinator of Financial Aids*
 JOHN A. PALMER, B.S., M.A. *Assistant Director of Admissions*
 JAMES R. PILKEY, B.S. *Admissions Counselor*
 ISABELLE POLDER *Secretarial Services*
 THOMAS J. QUATROCHE, B.S., M.S. *Admissions Counselor*
 FRANCES G. RAHN *Secretary to the Dean of Instruction*
 GEORGE R. SHERRIE, B.S., Ed.M., Ed.D. *Coordinator, Evaluation and Instructional Research Center*
 HAROLD J. STEFFEN, B.S., Ed.M., Ph.D. *Coordinator of Audio-Visual Education*
 BENEDICT J. SURWILL, JR., B.S., M.A., Ed.D. *Principal, Campus School*
 HELEN R. THIELKING, B.S., M.S. *Librarian, Campus School*
 JUNE H. TRUESDALE, B.S. *Director of Placement*
 MADELINE K. TURNER, R.N., B.S., M.A. *Coordinator of Health Services*
 ROBERT T. TYLER, B.S. *Admissions Counselor*
 WILLIAM P. WALSH, M.D. *College Physician*
 DOROTHY E. WOMER, B.S., M.S. *Director of Housing*

The College is a member of the following organizations:

AMERICAN ASSOCIATION OF COLLEGES FOR
TEACHER EDUCATION

AMERICAN ASSOCIATION OF COLLEGIATE REGIS-
TRARS AND ADMISSION OFFICERS

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN

AMERICAN COUNCIL ON EDUCATION

ASSOCIATION OF COLLEGE UNIONS

MIDDLE STATES ASSOCIATION OF COLLEGES AND
SECONDARY SCHOOLS

NATIONAL ASSOCIATION OF ELEMENTARY SCHOOL
PRINCIPALS

NATIONAL ASSOCIATION OF SECONDARY SCHOOL
PRINCIPALS

WESTERN NEW YORK SCHOOL STUDY COUNCIL

The College is accredited by:

MIDDLE STATES ASSOCIATION OF COLLEGES AND
SECONDARY SCHOOLS

NATIONAL COUNCIL FOR ACCREDITATION OF
TEACHER EDUCATION

NEW YORK STATE BOARD OF REGENTS

Faculty

Emeritus

**HARRY W. ROCKWELL (1919)**President Emeritus*
A.B., A.M. (Brown); A.M. (Columbia); Pd.D. (Albany State); L.L.D.
(Brown)

RALPH HORN (1936)*Dean Emeritus*
A.B. (Ashland); M.A., Ph.D. (Ohio State)

CHARLES B. BRADLEY (1918)*Director Emeritus of*
Art Education
Pratt Institute; B.S. (State University College, Buffalo)

**MYRTLE V. CAUDELL (1919)*Director Emeritus of*
B.S., M.A. (Columbia) *Home Economics Division*

**IRVING C. PERKINS (1920)*Director Emeritus of*
B.S. (New Hampshire); M.A. (Buffalo) *Industrial Arts Division*

MILDRED L. SIPP (1918)*Director Emeritus of*
B.S., M.A. (Columbia) *Home Economics Division*

**HARRY J. STEEL (1926)*Director Emeritus of Education*
B.A., A.M., Ph.D. (Minnesota)

KATHERYNE T. WHITTEMORE (1925)*Professor Emeritus of Geography*
A.B. (Vassar); A.M., Ph.D. (Clark) *and Director of Arts and*
Sciences Division

FRANCES G. HEPINSTALL (1930)*Librarian Emeritus*
B.S. (Syracuse); M.S. (Columbia)

ROBERT E. ALBRIGHT (1937)*Professor Emeritus of Social Studies*
A.B. (Nebraska Wesleyan); M.A. (Colorado); Ph.D. (Stanford)

GRACE ALLEN (1926)*Professor Emeritus of Education*
B.S., M.A. (Columbia)

**ROBERT O. DEMOND (1926)*Professor Emeritus of History*
A.B., M.A. (Syracuse); Ph.D. (Duke)

REUBEN S. EBERT (1934)*Professor Emeritus of Mathematics*
B.E. (Normal, Illinois); A.M. (Columbia); Ph.D. (New York University)

* The date in parenthesis following the name is that of first appointment
to a position on the faculty of this College.

** Deceased members of Faculty Emeritus.

- **ANNA GEMMILL (1919) *Professor Emeritus of Science*
B.S., M.A. (Buffalo); Ph.D. (Columbia)
- MINA S. GOOSSEN (1927) *Professor Emeritus of English*
B.O.E. (Syracuse); A.M. (Southern California)
- **OSCAR E. HERTZBERG (1930) *Professor Emeritus of Education*
A.B. (Wisconsin); A.M., Ph.D. (Columbia)
- CAROLYN W. HEYMAN (1930) *Professor Emeritus of Art*
B.S. (Western Reserve); A.M. (New York University)
- RUTH E. HOUSTON (1917) *Professor Emeritus of Health,
Physical Education*
A.B. (Western); A.M. (California)
- **IDA L. KEMPKE (1907) *Professor Emeritus of English*
Pd.B., A.B., A.M. (Buffalo)
- CHARLES A. MESSNER (1926) *Professor Emeritus of Foreign Language*
A.B. (Wabash); A.M. (Chicago); A.M., Ph.D. (Harvard)
- EDWARD L. MORRICE (1926) *Professor Emeritus of Industrial Arts*
B.S. (State University College, Buffalo); M.A. (Buffalo)
- CHESTER A. PUGSLEY (1930) *Professor Emeritus of Education*
B.A. (Dalhousie); M.A., Ed.D. (Columbia)
- **JOHN THURBER (1930) *Professor Emeritus of English*
B.A. (Colgate); Ph.D. (Iowa State)
- HOMER A. BRUCE (1925) *Associate Professor Emeritus of Education*
B.S. (Oklahoma); M.A. (Columbia)
- HUBERT E. COYER (1932) *Associate Professor Emeritus of Health,
Physical Education and Recreation*
B.P.E. (Springfield); Ed.M. (Buffalo)
- ANDREW W. GRABAU (1925) *Associate Professor Emeritus of English*
B.S. (Buffalo); M.A. (Columbia)
- INEZ M. KNAPP (1934) *Associate Professor Emeritus of Education*
B.S. (Buffalo); M.A. (Columbia)
- **GERTRUDE E. ROACH (1925) *Associate Professor Emeritus of
Health Education*
R.N. (Buffalo General); B.S. (State University College, Buffalo); M.A.
(New York University)
- MARTHA METZ (1927) *Assistant Professor Emeritus of
Elementary Education*
B.S. (State University College, Buffalo); A.M. (Michigan)
- CATHERINE E. REED (1920) *Associate Dean of Students Emeritus*
A.B. (Syracuse); M.A. (Columbia)

** Deceased members of Faculty Emeritus.

- **RUTH SPEIR (1920) *Assistant Professor Emeritus of Music*
Virgil School of Music; Columbia; Skidmore; New York
- WALTER WEBER (1920) *Assistant Professor Emeritus of
Industrial Arts*
B.S. (State University College, Buffalo); Ed.M. (Buffalo)
- MARION P. DANA (1928) *Instructor in History, Retired*
B.S., A.M. (Columbia)
- MINNIE GROVES (1919) *Instructor in Penmanship, Retired*
Diploma (Palmer School of Penmanship)
- EDNA HURD (1922) *Instructor in Music, Retired*
B.M. (Bush Conservatory)
- MARY LOUISE McMAHON (1923) *Instructor in Music, Retired*
B.S. (State University College, Buffalo); M.A. (New York)
- THERESA ROEHSLER (1907) *Instructor in Campus School, Retired*
B.S. (Buffalo); A.M. (New York)
- **ELLA SMITH (1902) *Instructor in Campus School, Retired*
Columbia
- GRACE VIELE (1902) *Reference Librarian, Retired*
B.L. (Smith)

THE ACADEMIC YEAR 1964-65

- LOIS G. ADAMS (1946) *Professor, Home Economics*
B.S. (Illinois); M.A. (Columbia)
- JOSEPH P. ADESSA (1948) *Professor, Health, Physical Education
and Recreation*
B.S., M.Ed. (Pennsylvania)
- HARRY ADNER (1964) *Associate Professor, Vocational
Technical Division*
Ch.E. (Rensselaer Polytechnical Institute)
- JOHN R. AIKEN (1964) *Instructor, History*
A.B. (Iowa Wesleyan); M.A. (Iowa)
- WALTER AINSWORTH (1960) *Assistant Professor, Science*
A.B. (Pennsylvania); A.M. (Michigan)
- MOHAMMED K. ALAM (1961) *Associate Professor, Physics*
B.S. (Benares); M.S. (Sind); M.S. (Colorado)
- JOHN L. ALLEN (1964) *Assistant Professor, Industrial Arts*
B.S. (State University College, Oswego)
- KATHLEEN AMERSHEK (1963) *Associate Professor, Education*
B.S. (Indiana State College, Pennsylvania); M.Ed. (Pennsylvania State)

** Deceased members of Faculty Emeritus.

- DUANE J. ANDERSEN (1958)Associate Professor, Ceramics
B.F.A. (Alfred); M.S. (Wisconsin)
- BERNARD D. ANSEL (1964)Assistant Professor, History
B.S. (Boston); M.A. (Columbia)
- VINCENT C. ARNONE (1963)Assistant Professor, Child Art
B.S. (State University College, Buffalo); M.A. (Columbia)
- GEORGE R. BAEUMLER (1964)College Physician
D.D.S., M.D. (State University of New York, Buffalo)
- ROBERT C. BAEUMLER (1964)Assistant Professor, Drawing
B.F.A. (State University of New York, Buffalo); M.F.A. (Yale)
- OSCAR W. BAILEY (1958)Associate Professor, Photography
B.A. (Wilmington); M.F.A. (Ohio)
- PEARSON BAILEY (1952)Associate Professor, Music
B.S. (Wittenburg); M.A. (Wayne State)
- WILLIAM H. BAILEY (1963)Instructor, Mathematics
A.B. (Indiana State); M.A. (Missouri)
- WILLIAM T. BAILEY (1964)Assistant Professor, Mathematics
B.A., M.A. (State University of New York, Buffalo)
- E. WILLIAM BAKER, JR. (1964)Director of Business Affairs
A.B., M.A. (State University of New York, Albany)
- CHARLES E. BALL (1956)College Plant Planning Coordinator
B.S. (State University College, Buffalo); M.A., Ed.D. (New York University)
- VICTOR H. BALOWITZ (1964)Assistant Professor, Philosophy
A.B. (Brooklyn)
- WILLIAM J. BARNETT (1950)Professor, Education
B.Ed. (State University College, Brockport); M.Ed. (Rochester); Ed.D. (State University of New York, Buffalo)
- JACK BARR (1960)*Assistant Professor, Mathematics
B.A., M.A. (Iowa)
- BETTY B. BARRE (1964)Instructor Part-time, English
B.S. (State University College, Buffalo)
- SAUL BARRON (1964)Professor, Science
B.S. (Lafayette); M.S., Ph.D. (Ohio State)
- ALVIN R. BARTHOLOMEW (1964)Instructor, Biology
B.F.A., M.Sc. (Ohio State)

* On Leave 1964-65

- JEROME E. BARTOW (1961)Associate Dean of Students
B.A. (Virginia State); M.A. (Columbia)
- CARLTON E. BAUER (1956)Professor, Design
B.S., M.A., Ph.D. (New York University)
- M. JAMES BAZEMORE (1964)Professor Part-time, Art
B.A. (Virginia)
- PAUL R. BEAUDET (1961)Assistant Professor, Geography
B.S. (State Teachers, Fitchburg, Massachusetts); M.A. (Clark)
- ALFRED W. BECKER (1963)Professor of Foreign Language and
B.A., M.A., Ph.D. (Maryland)Chairman of the Department
- DEWAYNE BEERY (1963)Assistant Professor, Physics
B.A. (Manchester); M.S. (Toledo)
- NANCY B. BELFER (1960)Assistant Professor, Serigraphy
B.S. (State University College, Buffalo); M.F.A. (School for American Craftsmen)
- THEDA E. BENNETT (1964)Associate Professor, Science
B.A. (Radcliffe); M.A., Ph.D. (Syracuse)
- JOHN A. BICE (1963)Associate Professor, Painting
B.F.A., M.A., M.F.A. (Colorado)
- MAXWELL G. BILSKY (1959)Associate Professor, Education
B.A. (Hillsdale); M.S., Ph.D. (Michigan)
- JUDITH BLACKWELL (1963)Assistant Professor, Education, Campus
B.F.A., M.S. (State University of New York, Buffalo)School
- DAVID A. BLAEUER (1964)Assistant Professor, Mathematics
B.A. (Blackburn); M.A. (Wisconsin)
- ROBERT J. BLANCH (1963)Instructor, English
A.B. (Holy Cross); M.A. (Northeastern)
- RUTH BLEY (1962)Assistant Librarian
B.A. (Hartwick); B.S.L.S. (Albany)
- MURRAY BLOUSTEIN (1955)Professor, Physical Handicap
B.S.S. (CCNY); M.A., Ed.D. (Columbia)
- MARIAN R. BODE (1959)Assistant Professor, General Art
B.E. (State University College, Oswego); M.E. (Wisconsin State)
- JOSEPH A. BOLINSKY (1954)Professor, Sculpture
B.S. (New Jersey State); M.A. (Columbia); M.F.A. (Iowa)
- PHILIP R. BONNER (1964)Director of Admissions
B.S. (Greenville); M.A., Ed.D. (Wayne)

- FRANK L. BORELLI (1963) *Assistant Dean of Students*
B.A. (Minnesota); M.S. (Southern Illinois)
- JOHN G. BOYD (1958) *Associate Professor, Economics*
A.B. (Boston); M.I.A. (Columbia)
- SILAS L. BOYD (1943) *Professor, Music and Chairman of the Department*
A.B. (St. Olaf); B.Mus.Ed. (Northwestern); M.A. (New York University); D.Mus.Ed. (Indiana)
- ARTHUR L. BRADFORD (1946) *Professor, English*
A.B., M.S. (Missouri); Ph.D. (Peabody)
- RAYMOND S. BRADLEY (1952) *Associate Professor, Science, Campus School*
B.S. (State University College, Cortland); M.S. (Syracuse)
- WESLEY F. BRETT (1959) *Associate Professor, Design in Wood*
B.Ed. (Keene); M.Ed. (New Hampshire)
- SARAH R. BRINSMAID (1951) *Associate Professor, Health, Physical Education and Recreation, Campus School*
B.E. (State University College, Brockport); M.A. (New York University)
- ROBERT W. BROCK (1962) *Instructor, Sculpture*
B.F.A. (Dayton); M.F.A. (Ohio)
- STANLEY E. BROOKS (1961)* *Associate Professor, Industrial Arts*
B.A., M.A. (Peabody); Ed.D. (North Dakota)
- JAMES BROPHY (1962) *Cooperative Teacher, Buffalo Public School 52*
B.S., M.S. (State University College, Buffalo)
- EDMUND A. BROWN (1948) *Professor, History*
B.A. (Amherst); M.A. (Yale); Ph.D. (Columbia)
- KENNETH W. BROWN (1953) *Professor, Industrial Arts*
B.S., M.S. (Kansas State); Ph.D. (Ohio State)
- MARJORY F. BROWN (1960) *Associate Professor, Education*
B.A. (University, British Columbia); B.Ed., A.Mus. (Alberta); A.R.C.T. (Toronto); M.A., Ph.D. (Washington)
- RICHARD C. BROWN (1952) *Professor, History and Chairman of the Department of Social Studies*
B.S. (Ohio State); M.A. (Colgate); Ph.D. (Wisconsin)
- JACK C. BRUECKMAN, JR. (1964) *Assistant Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)
- ERIC BRUNGER (1954) *Professor, History*
B.E. (State University College, Oswego); M.S., Ph.D. (Syracuse)

* On Leave 1964-65

- RUTH M. BUDDENHAGEN (1945) *Professor, Home Economics*
B.S. (State University College, Buffalo); M.A. (Columbia)
- PAUL G. BULGER (1959) *President of the College*
B.S., M.S. (State University of New York, Albany); Ed.D. (Columbia)
- MARIE L. BULLOCK *Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)
- CHARLES E. BURCHFIELD (1963) *Consulting Artist*
L.H.D. (Kenyon); Dr. Arts (Harvard), (Hamilton); LL.D. (Valparaiso)
- JOANNA BURGER (1964) *Instructor, Science*
B.S. (State University of New York, Albany); M.S. (Cornell)
- ANNA P. BURRELL (1948) *Professor, Education*
B.S., M.S. (Pennsylvania); Ph.D. (New York University)
- BERNICE C. BURROS (1964) *Instructor, Mathematics*
B.A. (State University of New York, Buffalo); A.M. (Columbia)
- H. VIRGINIA BUTLER (1944) *Associate Professor, Home Economics*
B.S. (State University College, Buffalo); A.M. (Columbia)
- MARY ANN CALABRO (1964) *Cooperative Teacher, Buffalo Public School 52*
B.A. (D'Youville); B.S. (State University College, Buffalo)
- PARKER E. CALKIN (1963) *Instructor, Geology*
B.S. (Tufts); M.S. (University, British Columbia); Ph.D. (Ohio State)
- LOUIS J. CALLAN (1946) *Professor, Industrial Arts*
B.S. (State University College, Buffalo); M.A., Ph.D. (Ohio State)
- ALBERT T. CAPEN (1960) *Assistant Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)
- DAVID A. CAPIELLO (1948) *Professor, Industrial Arts*
B.S. (State University College, Buffalo); M.S. (Cornell); Ed.D. (State University of New York, Buffalo)
- JOHN C. CARBONARO (1964) *Instructor Part-time, Philosophy*
B.A., M.A. (State University of New York, Buffalo)
- MARIAN L. CARROLL (1954) *Professor, Education*
B.A. (Buffalo); M.A., Ed.D. (Columbia)
- DONALD E. CARTER (1964) *Instructor, Education*
B.S., M.S. (Kansas State)
- ZELLA MAY CASE (1950) *Associate Professor, Art*
B.A., M.A. (Iowa)

HELEN L. CAWLEY (1955)*Professor, Home Economics*
A.B., B.S. (West Virginia); M.S. (Minnesota); Ed.D. (Pennsylvania)

MARGARET E. CHAMBERS (1964)*Assistant Dean of Students*
B.S. (State University College, Plattsburgh)

E. WAYNE CHAMBLESS (1963)*Instructor, English*
B.A. (Memphis State)

WILLIAM J. CHAMPION (1960)*Associate Professor, Music*
B.S.Ed. (Bowling Green); M.M. (Michigan)

FRED E. CHAPMAN (1964)*Assistant Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)

KWAN-WEI CHEN (1964)*Assistant Professor, Mathematics*
B.S. (Eastern Michigan); M.S. (De Paul)

ANITA L. CHERKAUER (1961)*Assistant Professor, Education*
B.S., M.S. (State University College, Buffalo)

RUDOLPH J. CHERKAUER (1948)*Professor, Mathematics*
B.S. (State University College, Buffalo); Ed.M., Ed.D. (State University of New York, Buffalo)

SEI-YONG CHO (1964)*Associate Professor, Economics*
A.B. (Oregon)

JOAN M. CLAAR (1963)*Assistant Dean of Students*
B.S., M.S. (Southern Illinois)

ARTHUR B. CLARK III (1963)*Assistant Coordinator of Financial Aids*
B.A. (Yale); M.A. (Cornell)

F. JUNE CLARKE (1959)*Professor, Home Economics*
B.S. (State University College, Buffalo); M.S., Ed.D. (Cornell)

HERMAN F. COLE (1962)*Instructor, Philosophy*
B.A. (West Liberty)

HENRY M. COLLINS (1958)*Assistant Professor, Science*
B.S. (Boston); A.M. (Harvard)

MILDRED M. CONCANNON (1948)*Associate Professor, Education,
Campus School*
B.S. (State University College, Albany); M.A. (New York University)

RONALD CONDRON (1964)*Associate Professor, Exceptional
Children Education*
B.A. (Hofstra); M.A. (Columbia)

DAVID T. CONVERSE (1964)*Instructor, Education*
B.A. (Yankton); M.A. (Nebraska)

JAMES A. CONWAY (1963)*Associate Professor, Education*
B.A. (State University College, Albany); M.A. (Columbia); Ed.D. (State University of New York, Albany)

CLARENCE A. COOK (1947)*Professor, Industrial Arts*
B.S. (State University College, Buffalo); M.S. (Cornell); Ed.D. (State University College, Buffalo)

MARIE R. CORDARO*Cooperative Teacher, Buffalo Public School 52*
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SYLVIA A. CRAGUN (1949)*Assistant Professor, Home Economics*
B.S., M.S. (State University College, Buffalo)

MARION E. CRAMER (1958)*Assistant Librarian*
B.Mus. (Rochester); B.L.S. (State University of New York, Buffalo)

RUFUS S. CRANE (1963)*Assistant Professor, Foreign Language*
A.B. (Georgia); M.A. (Wisconsin)

SHERMAN G. CRAYTON (1937)*Professor, Education*
A.B. (Franklin); A.M., Ph.D. (Indiana)

EDMUND S. CRIDGE (1963)*Instructor, Industrial Arts*
B.S. (State University College, Oswego)

STANLEY A. CZURLES (1931)*Director, Art Education Division*
B.F.A., M.F.A. (Syracuse); Ph.D. (Iowa)

DANIEL P. DACEY (1960)**Associate Professor, French*
A.B., A.M. (Boston)

EUGENE L-G DAKIN (1947)*Professor, Theatre Design*
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MARY DARKER*Cooperative Teacher, Buffalo Public School 52*
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ARTHUR DARVISHIAN (1962)*Assistant Professor, Industrial Design*
B.A., M.A. (Michigan State)

ROBERT E. DAVIDSON (1959)*Assistant Professor, Painting*
B.F.A. (Cranbrook)

MANUEL P. DE ALMEIDA (1964)*Assistant Professor, Foreign Language*
M.A., Ph.D. (Laval)

LARRY W. DEBORD (1962)*Assistant Professor, Sociology*
A.B., A.M. (Morehead)

JEAN M. DELIUS (1960)*Assistant Professor, Design in Metal*
Certificate (Albright School)

RAM DESAI (1963)*Associate Professor, Political Science*
B.A. (Bombay); M.A. (Wayne State); Ph.D. (Michigan State)

JOHN R. DETTRE (1964)*Associate Professor, Education*
B.A., B.S., M.A., Ph.D. (Ohio State)

* On Leave 1964-65

STANLEY DICKSON (1956)*Professor, Speech Pathology and Audiology*
B.A., M.A. (Brooklyn); Ed.D. (State University of New York, Buffalo)

RICHARD C. DIEDRICH (1964)*Assistant Professor, Mathematics*
B.S. (State University of New York, Buffalo); M.S.T. (Syracuse)

CHARLES DIXON (1964)*Associate Professor, Education*
B.Ed., M.Ed. (Toledo)

JOSEPH T. DOCKERY (1964)*Assistant Professor, Education*
B.S.Ed., M.S.Ed. (State University College, Brockport)

JOHN M. DODD (1959)*Professor and Director of the Child Study Center*
B.S.Ed. (Kansas); M.S. (Kansas State); Ed.D. (Kansas)

WILLIAM A. DONNELLY (1964)*Associate Professor, English*
B.A. (Notre Dame); M.A. (Teachers College)

EDITH F. DOUGLAS (1951)*Associate Professor, Home Economics*
B.S., M.Ed. (New Hampshire)

FRASER B. DREW (1945)*Professor, English*
A.B. (Vermont); A.M. (Duke); Ph.D. (State University of New York, Buffalo)

SHERMAN F. DREYER (1964)*Director, Industrial Arts Education*
B.S., M.S. (Stout State College); Ed.D. (Oklahoma) Division

WALTER M. DRZEWIENIECKI (1963)*Associate Professor, History*
B.S. (Wisconsin State); M.A., Ph.D. (Chicago)

ROBERT C. DUBOIS (1962)*Associate Professor, Physics*
B.S., M.S. (Wayne)

JOHN DULLAERT (1964)*Associate Professor, Education*
A.B., M.A. (Michigan)

MARGARET V. DUPRE (1930)*Professor, Chemistry*
B.S. (Texas State College for Women); A.M. (Columbia)

RAYMOND E. DYE (1963)*Assistant Dean of Students*
B.A. (Harris Teachers College); M.S. (Southern Illinois)

MARY G. ECKER (1961)*Associate Professor, Education*
B.S. (Morris); M.A. (Columbia)

THEODORE E. ECKERT (1953)*Professor, Science and Chairman of the Department*
A.B. (State University College, Albany); M.S., Ph.D. (Cornell)

FRANK C. ECKMAIR (1963)*Assistant Professor, Drawing*
B.A. (Iowa); M.F.A. (Ohio)

DORIS K. EDDINS (1947)*Professor, Education*
B.S. (Bowling Green); A.M. (Chicago); Ed.D. (Michigan)

DOROTHY E. EELLS (1958)*Senior Registrar*
A.B. (Taylor); M.A. (Buffalo)

BERNARD K. EGAN (1961)*Associate Professor, Art and Coordinator of Student Teaching*
B.S. (State University College, Buffalo); M.Ed. (Pennsylvania State)

MOHAMED EL-BEHAIRY (1963)*Associate Professor, Political Science*
B.Com. (Cairo); M.A. (Minnesota); Ph.D. (Ohio)

HAZEL ELLER*Cooperative Teacher, Buffalo Public School 52*
B.S., M.S. (State University College, Buffalo)

LESTER ELSIE (1963)*Instructor, Industrial Arts*
B.S. (State University College, Buffalo)

NORMA A. ENEA (1964)*Professor, Foreign Languages*
B.A., M.A. (State University College, Albany); Ed.D. (State University of New York, Buffalo)

CATHERINE A. ENGLISH (1953)*Professor, Music*
B.S. (State University College, Potsdam); Ed.M. (Temple)

HAROLD J. ENGLISH (1964)*Instructor, Art*
Albright Art School

DAVID A. ERLANDSON (1964)*Assistant Professor, English, Campus School*
B.A. (Wheaton); M.S. (Northern Illinois)

ELEANORE B. EVENSON (1962)*Assistant Professor, Home Economics*
B.S., M.A. (Minnesota)

LORETTA A. FAHEY (1964)*Nurse-Assistant Professor*
B.S., M.S. (State University of New York, Buffalo)

GERHARD J. FALK (1957)*Associate Professor, Sociology*
B.A. (Cleveland College); M.A. (Western Reserve)

VELMA J. FEBEL (1956)*Associate Professor, Education, Campus School*
B.Ed., Ed.M. (State University of New York, Buffalo)

JOSEPH A. FEKETE (1960)*Professor, Geography and Chairman of the Department*
B.A. (Baldwin-Wallace); M.A. (Miami); Ph.D. (Illinois)

ELSIE M. FERM (1956)*Associate Professor, Education*
B.S., M.S. (State University College, Buffalo)

PAULA U. FICK (1964)*Instructor Part-time, Home Economics*
B.S. (Alfred)

ABEL K. FINK (1956)**Associate Professor, Education*
B.A. (Brooklyn); M.A., Ed.D. (Columbia)

* On Leave 1964-65

MARY E. FIORE (1963) *Professor, Music*
A.B. (California); M.A. (San Jose State); Ph.D. (Indiana)

MARIE A. FITZPATRICK (1962) *Assistant Professor, Education*
B.S., M.S.Ed. (Canisius)

RUTH FISHER *Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)

IRVING S. FOLADARE (1958) *Associate Professor, Sociology*
A.B. (Georgia)

JOHN FONTANA (1929) *Professor, Industrial Arts*
B.S. (State University College, Buffalo); A.M. (New York University);
Ed.D. (State University of New York, Buffalo)

NICHOLAS G. FOTION (1963) *Professor, Philosophy and Chairman
of the Department*
B.S. (Northwestern); M.A. (Iowa); Ph.D. (North Carolina)

FLORENCE I. FOWLER (1957) *Assistant Librarian*
B.A. (Westrn Reserve); M.L.S. (State University College, Geneseo)

MARY T. FOX (1963) *Nurse-Assistant Professor*
R.N., B.S. (D'Youville)

BARBARA R. FREY (1963) *Professor, Education*
B.Ed. (State University College, Geneseo); M.Ed. (Boston)

MARTIN B. FRIED (1948) *Professor, English*
B.S. (State University College, Buffalo); M.A. (Harvard); Ph.D. (Chicago)

BETTY GALLAGHER (1946) *Professor, Speech Pathology and Audiology*
B.S. (State University College, Buffalo); M.A. (Michigan); Ph.D. (Wisconsin)

JOHN GAMBON (1964) *Clinical Psychologist*
B.S. (Illinois); Ph.D. (State University of New York, Buffalo)

HERTHA S. GANEY (1934) *Professor, English*
A.B. (State University College, Albany); A.M. (Columbia)

JOSEPH J. GELSOMINO (1964) *Instructor Part-time, Philosophy*
B.S. (State University College, Buffalo)

MONICA M. GENSBITTEL (1952) *Assistant Librarian*
B.S. (D'Youville); M.S. (State University College, Geneseo)

PAUL E. GILLOOLY (1963) *Assistant Professor, Science*
B.S. (Michigan State); M.Ed. (Canisius)

STEVEN GITTLER (1955) *Director of Summer Session*
B.A. (Lake Forest); M.A. (Washington State); Ed.D. (State University of New York, Buffalo)

CHARLES A. GLATT (1963) *Professor, Education*
B.A. (Louisiana State); M.A., Ph.D. (New Mexico)

HENRY GLOVER (1959) *Associate Professor, Art*
A.B., M.A. (Morehead)

MINERVA J. GOLDBERG (1958) *Associate Professor, Education*
B.S., M.S. (State University College, Buffalo)

DAVID H. GOLDSMITH (1964) *Assistant Professor, English*
B.A., M.A. (Bowling Green)

ELEANOR M. GOVER (1926) *Professor, Education, Campus School*
B.S. (State University of New York, Buffalo); M.A. (Columbia)

WILSON B. GRAGG (1949)* *Professor, English*
A.B. (Illinois); A.M., Ph.D. (Northwestern)

MARGARET A. GRANT (1937) *Director, Home Economics Education
Division*
B.S. (State University College, Buffalo); M.S. (Cornell); Ed.D. (State University of New York, Buffalo)

DOROTHY A. GREEN *Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo)

FRED H. GREENBERG (1964) *Associate Professor, Chemistry*
B.A. (Berea); M.S., Ph.D. (Chicago)

ANNA MAY GREENE *Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo); M.A. (Canisius)

CHARLES M. GREENSHIELDS (1963) *Associate Professor, Education*
B.A., M.A., Ph.D. (Michigan State)

WALTER B. GREENWOOD (1950) *Professor, English*
A.B. (Transylvania); M.A. (Columbia); Ph.D. (Cincinnati)

RUSSELL K. GRIGORY (1964) *Assistant Professor, History*
A.B. (Los Angeles State College); M.A. (Southern California)

BENJAMIN F. GRONEWOLD (1947) *Professor, English*
B.A. (North Central); M.A. (Wisconsin); Ph.D. (New York University)

THELMA M. HAINES (1955) *Associate Professor, Education,
Campus School*
B.S., M.S. (State University College, Buffalo)

PAUL V. HALE (1963) *Associate Professor, English*
A.B. (Canisius); A.M. (Cornell); Ph.D. (New York University)

* On Leave 1964-65

RICHARD N. HALL, (1964) *Assistant Professor, Industrial Arts*
B.A., M.A. (Western Washington College)

FRANK K. HARMAN (1955) *Professor, Physics*
B.S., M.Ss., Ph.D. (Ohio State)

FREDERICK J. HARTRICK (1960) *Assistant Professor, Health, Physical*
A.B. (Oberlin); M.S. (Pennsylvania State) *Education and Recreation*

VIRGINIA R. HARVIN (1964) *Associate Professor, Education*
Assoc. A.B. (Anderson); B.S. (Limestone); M.Ed. (Louisville); Ed.D. (Indiana)

ALVA J. HAWKES (1960) *Instructor, Health, Physical Education*
B.S. (Michigan State) *and Recreation*

SAMUEL W. HEAVENRICH (1962) *Professor, Art History*
A.B., M.A., Ed.D. (California)

CARYL G. HEDDEN (1958) *All-College Coordinator of Student Teaching*
B.S. (State University College, Buffalo); M.S. (Michigan); Ed.D. (State University of New York, Buffalo)

KENNETH G. HEINTZ (1961) *Assistant Professor, Industrial Arts*
B.S. (Lowell)

LYLE H. HEMINK (1962) *Professor, Education*
Ed.B. (State University College, Fredonia); Ed.M., Ed.D. (State University of New York, Buffalo)

VIRGINIA HERGER *Cooperative Teacher, Public School 52*
B.S. (State University of New York, Buffalo)

ELEANOR B. HERLING (1964) *Assistant Librarian*
A.B. (Barnard); B.S. (Columbia)

WILLIAM L. HERRIN (1964) *Instructor, English*
B.A. (Kentucky); M.A. (Tennessee)

THOMAS B. HERTHEL (1960) *Assistant Professor, English*
A.B. (Washington University); M.A. (Mills)

DONALD A. HESS (1964) *Associate Professor, Exceptional Children*
B.S.Ed. (Clarion); M.Ed., Ed.D. (Pennsylvania State) *Education*

CAROLYN W. HEYMAN (1930) *Professor, Art*
B.S. (Western Reserve); A.M. (New York University)

PAUL A. HILAIRE (1956) *Associate Professor, Mathematics*
B.S. (State Teachers College, California, Pennsylvania); M.Ed. (Pittsburgh)

JOHN L. HILL, JR. (1958)* *Associate Professor, Art, Campus School*
B.S. (State University College, Buffalo); M.A. (Columbia)

* On leave 1964-65

ALBERT A. HIMMEL (1962) *Associate Professor, Science*
B.A. (Syracuse); M.A. (Montclair)

CAROL J. HINMAN (1964) *Instructor, Health, Physical Education*
B.A. (Wooster) *and Recreation*

WILLIAM HOEFERT (1964) *Assistant Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)

WARREN W. HOFFER (1964) *Instructor, Music*
B.M. (Wisconsin)

BRUCE H. HOFFMAN (1964) *Instructor, English*
B.S. (New York); M.A. (Miami)

ISABEL H. HOLLANDS (1963) *Assistant Dean of Students*
B.S. (State University College, Buffalo)

FREDERICK J. HOLLISTER (1948) *Professor, Sociology*
A.B. (Union); M.A. (State University College, Albany); Ph.D. (Syracuse)

PAUL R. HOMER (1954) *Associate Professor, Music*
B.A., M.A. (Columbia)

SAUL J. HOROWITZ (1960) *Assistant Professor, Painting*
Diploma (Society of Arts and Crafts); B.S.Ed. (Wayne State); M.F.A. (Cranbrook)

JULIUS J. HUBLER (1948) *Professor, Art*
B.S. (Southeast Missouri); M.A., Ed.D. (Columbia)

JAMES W. HUGHES (1963)* *Assistant Professor, Education*
B.S. (State University College, Buffalo); M.A. (New Mexico)

DANIEL R. HUNTER, JR. (1964) *Assistant Director of Activities*
B.S. (State University College, Buffalo)

S. JAMES JAKIEL (1963) *Assistant Professor, English*
B.S., M.S. (State University College, Buffalo)

MARY L. JAMISON (1928) *Associate Professor, Education,*
B.S., M.A., Professional Diploma (Columbia) *Campus School*

IRAJ JAVIDPOUR (1964) *Assistant Professor, Science*
M.S. (Michigan); Ph.D. (Wisconsin)

JEANNE JONES (1964) *Instructor, Art, Campus School*
B.S., M.S. (State University College, Buffalo)

JULIA B. JONES (1962) *Associate Professor, Education, Campus School*
B.S., M.S. (State University College, Buffalo)

ARTHUR D. KAHN (1963) *Assistant Professor, English*
B.S. (Trenton State Teachers College); M.A. (Rutgers); Ph.D. (New York University)

* On leave 1964-65

GEORGE L. KALTSOUNIS (1963)Associate Professor, Education
B.A., M.A. (Michigan)

ESTELLE M. KANE (1959)Associate Professor, Home Economics
B.S. (Kent State); M.A. (State University of Iowa)

LEONARD KAPLAN (1963)Assistant Professor, Education
B.S. (State University College, Buffalo); M.A. (Columbia)

RUTH M. KARCHER (1930)Associate Professor, Design with Fibers
A.B. (Ohio Wesleyan); A.M. (Columbia)

STANLEY F. KASPRZYK (1960)*Assistant Professor, Industrial Arts
A.B. (University of California); M.S. (University of Pennsylvania)

SHIRLEY S. KASSMAN (1958)Assistant Professor, Art
B.S., M.S. (State University College, Buffalo)

NORMAN C. KATNER (1963)Assistant Professor, Education,
Campus School
B.S. (State University College, Geneseo); M.S. (State University College,
Brockport)

ELSIE U. KAYE (1964)Assistant to the Director of Public Information
B.A. (State University of New York, Buffalo); B.Litt. (Columbia)

ELEANOR G. KELLY (1947)Associate Professor, Education
B.S. (State University of New York, Buffalo); M.A., Professional Di-
ploma (Columbia)

LENORE KEMP (1950)Associate Librarian
B.S. (State University College, Buffalo); B.S. in L.S. (State University
of New York, Buffalo)

DOROTHY A. KENNEDY (1963)Assistant Professor, Mathematics
B.A. (Vassar); M.A. (Columbia); M.S. (Buffalo)

EVAN J. KERN (1964)Assistant Professor, Art
B.Sc., M.A. (Ohio State)

MAURICE L. KEROACK (1963)Assistant Professor, Industrial Arts
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MARIE KERRCooperative Teacher, Buffalo Public School 52
B.S. (State University College, Buffalo); M.Ed. (Canisius)

ELIZABETH F. KLAVER (1964)Assistant Dean of Students
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HENRY KLOMP (1955)Professor, English
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* On leave 1964-65

CAROL E. KRAEMERAssistant Librarian
B.A. (Buffalo); M.S. in L.S. (Syracuse)

THEODORE W. KURY (1963)Assistant Professor, Geography
B.A. (Montclair); M.A. (Louisiana State)

MARVIN J. LAHOOD (1964)Associate Professor, English
B.S. (Boston); M.A., Ph.D. (Notre Dame)

CHARLES P. LAMORTE (1955)Dean of Students
A.B., M.A., Ed.D. (Columbia)

RICHARD H. LAMPKIN (1950)Professor, Science
A.B., B.Ed. (Cincinnati); Ph.D. (Columbia)

LORRAINE A. LANGE (1948)Director, Elementary Education Division
B.A. (Iowa State); M.A., Ph.D. (Ohio State)

GEORGE M. LAUG (1949)Professor, Biology
B.S., M.S., Ph.D. (Syracuse)

WILMA LAUX (1949)Associate Professor, Geography
B.S. (State University College, Buffalo); M.A. (Ohio State)

ELIZABETH A. LAWRENCE (1960)Assistant Professor, Physical Handicap
B.S. (State University College, Buffalo); M.A. (Columbia)

TERESA LAWRENCE (1962)*Assistant Professor, Mental Retardation
B.A. (Hunter); M.S.Ed. (Yeshiva)

JEANNE LEDOUX (1961)Assistant Professor, Education, Campus School
A.B. (Mercyhurst); M.S. (State University College, Buffalo)

CHARLES R. LEFCOURT (1964)Assistant Professor, English
B.S., M.A. (New York); Doct. Univ. (Paris)

PATRICIA A. LENGEL (1963)Associate Professor, Biology
B.S. (Wooster); M.S., Ph.D. (Ohio)

DONALD D. LEOPARD (1963)Assistant Professor, History
B.S. (Dayton); M.A. (New Mexico)

RICHARD N. LERNER (1962)Instructor, Anthropology
B.S., M.S. (Wisconsin)

GORDON H. LEVI (1963)Assistant Professor, Industrial Arts
B.S. (State University College, Oswego); M.S. (State University College,
Buffalo)

MYRON E. LEWIS (1962)Assistant Professor, Industrial Arts
B.S., M.S. (State University College, Oswego)

WILLIAM S. LICATA (1959)Assistant Professor, Education
B.S. (State University College, Buffalo); M.E. (State University of New
York, Buffalo)

* On leave 1964-65

EDNA M. LINDEMANN (1946)*Professor, Home Design and Coordinator of Special Projects*
B.S. (State University of New York, Buffalo); M.A. (Northwestern); Ed.D. (Columbia)

HAROLD R. LOFGREN (1949)*Professor, Adolescent Art*
B.S. (Miami); M.A. (Columbia)

NORMAN J. LOPES (1962)*Instructor, Industrial Arts*
B.S. (New Bedford)

ROBERT A. LORENZ (1963)*Assistant Professor, Sociology*
B.S., M.S. (Northern Illinois)

JACK C. LOVE (1962)*Assistant Professor, Industrial Arts*
B.S., M.A. (Kent)

MICHAEL LUCAS, JR. (1964)*Cooperative Teacher, Buffalo Public School 52*
B.S., M.S. (State University College, Buffalo)

ROBBIE LEE LUCKIE (1964)*Assistant Dean of Students*
B.S. (Bishop College); M.S. (Southern Illinois University)

ROBERT B. LUDWIG (1964)*Instructor, Mathematics*
B.A. (Iowa); M.A. (Missouri)

HOWARD B. MACADAM (1961)*Associate Professor, Health, Physical Education and Recreation*
B.S., M.A. (Michigan State)

GEORGE M. MACDONALD (1963)*Assistant Professor, Health, Physical Education and Recreation*
B.S. (Bowling Green); M.A. (Michigan)

FRANKLIN C. MACKNIGHT (1961)*Associate Professor, Science*
Ph.B., Ph.D. (Chicago)

HORACE MANN (1953)*Director, Exceptional Children Education Division*
A.B. (Brooklyn); A.M. (Columbia); Ph.D. (Pennsylvania State)

GREGORY K. MARAVELAS (1962)*Instructor, Biology*
B.S. (Miami); M.A. (Massachusetts)

LELAND C. MARSH (1960)*Associate Professor, Biology*
B.S., M.S., Ph.D. (Syracuse)

RICHARD MARSH (1963)*Instructor, Health, Physical Education and Recreation*
B.S. (Eastern Michigan); M.S. (Illinois)

PAUL D. MARTIN (1961)*Assistant Professor, Graphics*
B.A., M.F.A. (Southern Illinois)

ANNA A. MARTORANA (1946)*Professor, Education*
B.S. (State University College, Buffalo); M.A. (Columbia); Ph.D. (Minnesota)

PETER MARTORELLA (1964)*Assistant Professor, Social Studies*
B.S., M.A. (Ohio State)

JUDITH O. MATSUNOBU (1964)*Instructor, English*
B.A. (Hawaii); M.A. (Columbia)

RICHARD I. MAYES (1964)*Assistant Professor, English*
B.A. (Princeton); M.A. (New York University)

F. PATRICK McCABE (1956)*Assistant Professor, Education, Campus School*
B.S., M.S. (State University College, Buffalo)

MARJORIE MCCARTNEY (1962)*College Nurse*
R.N. (Hospital of the University of Pennsylvania)

MAX H. McCOMB (1958)*Associate Professor, Education*
B.S. (Clarion State); M.Ed. (Temple)

AGNES M. McDERMOTT (1964)*Assistant Professor, Philosophy*
B.A., Ph.D. (Pennsylvania)

JAMES R. McDONNELL (1964)*Assistant Professor, History*
B.S. (State University College, Buffalo); M.S. (State University College, Fredonia)

A. JAMES McMANUS (1963)*Associate Professor, English*
B.S. (State University College, Buffalo); M.S. (Canisius)

MONICA C. MEAGHER (1959)*Associate Professor, Home Economics*
B.S. (State University College, Plattsburgh); M.S. (Purdue)

JOSE A. MENDOZA (1964)*Instructor Part-time, Foreign Language*
Licenciado in Pedagogy (University of Panama)

WINIFRED MERNAN (1963)*College Physician*
M.D. (State University of New York, Buffalo)

HOWARD J. MEYER (1950)*Associate Professor, Industrial Arts*
B.S. (State University College, Buffalo); Ed.M. (State University of New York, Buffalo)

HOWARD A. MEYERS, JR. (1964)*Assistant Professor, Health, Physical Education, and Recreation*
B.S., M.S. (State University College, Buffalo)

ANTHONY MILANOVICH (1950)*Professor, Education*
B.S., M.S. (Indiana State); Ph.D. (Ohio State)

BERTRAM MILLER*Principal, Buffalo Public School 52*
B.S. (State University College, Buffalo); M.Ed. (State University of New York, Buffalo)

DORIS R. MILLER (1961)*Associate Professor, Education*
A.B. (Mount Union); M.A. (Ohio)

REX MILLER (1957)*Associate Professor, Industrial Arts*
B.A. (Iowa State Teachers); M.A. (Colorado State); Ed.D. (State University of New York, Buffalo)

BENJAMIN H. MIN (1964) *Assistant Professor, History*
B.A. (Wisconsin); M.A. (Massachusetts)

DONALD E. MITCHELL (1960) *Associate Professor, Music, Campus School*
B.S., M.S. (State University College, Fredonia)

ROBERT E. MOISAND (1960)* *Instructor, Biology*
B.S., M.S. (Illinois)

SILAS R. MOLYNEAUX (1964) *Director of Public Information*
B.A. (Houghton); M.A. (Columbia) (Col. U.S.A.F. Ret.)

MARY ANN MONROE (1961) *Financial Aids Coordinator*
B.S. (State University College, Geneseo); M.S. (Syracuse)

MABEL D. MONTGOMERY (1958) *Professor, Mathematics*
A.B. (Houghton); M.A., Ph.D. (State University of New York, Buffalo)

JAMES J. MOONEY (1963) *Assistant Professor, Industrial Arts*
B.S. (Ellendale); M.E. (Colorado)

MARY JANE MORRIS *Cooperative Teacher, Buffalo Public School 52*
B.A. (Keuka); M.E. (State University of New York, Buffalo)

M. EUGENE MOYER (1960)* *Assistant Professor, Economics*
A.B., M.A. (Ball State)

RUTH S. MUCK (1942) *Associate Professor, Education,*
B.S., M.S. (State University College, Buffalo) *Campus School*

MARTHA G. MULLIGAN *Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo); M.Ed. (Canisius)

GARY L. MUSSER (1964) *Assistant Professor, Mathematics*
B.S., M.S. (Michigan)

HILDA K. MYERS (1962) *Assistant Professor, Education*
B.S. (Cornell); M.S. (State University College, Cortland)

VALENTINE J. NADOLINSKI (1947)* *Professor, Science*
B.A., M.A. (State University of New York, Buffalo)

JESSE NASH (1964) *Instructor Part-time, Social Studies*
B.A. (State University of New York, Buffalo)

HUGH M. NEIL (1964) *Instructor, Art*
B.S. (State University College, Buffalo)

EMERSON E. NEUTHARDT (1946) *Professor, Industrial Arts*
B.S. (State University College, Oswego); M.A. (New York University);
Ed.D. (State University of New York, Buffalo)

OLIVER M. NIKOLOFF (1961) *Professor, Educational Psychology*
B.A., M.S. (Cincinnati); M.S. (Xavier); Ph.D. (Syracuse)

* On leave 1964-65

META NORENBURG (1947) *Professor, English*
B.A. (Western Union); M.A. (Nebraska)

DOROTHY E. NORRIS (1959) *Associate Professor, Health, Physical*
A.B. (Oberlin); M.A. (Columbia) *Education and Recreation*

RICHARD J. NOSTRANT (1962) *Assistant Professor, Industrial Arts*
B.S. (State University College, Oswego); M.S. (State University College,
Buffalo)

DONALD E. O'BRIEN (1963) *Associate Professor, Health, Physical*
B.S. (Columbia); M.S. (Pennsylvania State) *Education and Recreation*

MAE O'BRIEN (1931) *Professor, Education*
B.S., M.A., Ph.D. (Columbia)

JOAN O'CONNELL *Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo)

GEORGE M. OLSHIN (1963) *Associate Professor, Mental Retardation*
B.A., M.S. (CCNY); Ed.D. (Georgia)

PATRICIA E. O'NEIL (1963) *Assistant Professor, Home Economics*
B.A. (Puget Sound); M.S. (Texas Women's University)

ALICE E. OSBORN (1964) *Instructor, Foreign Language*
B.A., M.A. (Middlebury)

ARLENE L. OSTERMEIER (1964) *Assistant Professor, Home Economics*
B.A. (St. Olaf); M.A. (Michigan State)

VITO R. PACE (1963) *Assistant Professor, Industrial Arts*
B.S., M.S. (State University College, Oswego)

JOSEPH M. PAGE (1961) *Assistant Professor, Speech Pathology and*
B.A. (Grand Forks); M.S. (Wisconsin) *Audiology*

JOHN A. PALMER (1960) *Assistant Director of Admissions*
B.S. (State University College, Buffalo); M.A. (State University of New
York, Buffalo)

NELSON J. PALMER (1964) *Professor Part-time, Art*
B.A., B.Arch. (Yale)

WILLIAM C. PALMETER, JR. (1948) *Associate Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)

ANGELA R. PALMIERI (1963) *Associate Dean of Students*
B.S., M.A. (Rochester)

RICHARD C. PEARCE (1964) *Assistant Professor, Education*
B.S., M.S. (State University College, Buffalo)

LOIS W. PEARSON (1960) *Associate Professor, Education*
B.S., M.S. (State University College, Buffalo)

- ROBERT W. PEARSON (1964)Assistant Professor, Health, Physical
Education and Recreation, Campus School
B.S., M.S. (State University College, Buffalo)
- ELIZABETH G. PENN (1947)Professor, Education
B.S. (New Jersey); M.A., Ed.D. (Columbia)
- JOHN R. PEO (1964)Assistant Professor, Education
A.B., M.Ed. (Rochester)
- HAROLD F. PETERSON (1933)*Professor, History
A.B. (Knox); M.A. (Minnesota); Ph.D. (Duke)
- JAMES R. PILKEY (1963)Admissions Counselor
B.S. (State University College, Brockport)
- JULIA C. PIQUETTE (1952)Associate Professor, English
B.S., M.A., Ph.D. (Northwestern)
- ARTHUR W. PITTS, JR. (1963)Assistant Professor, English
A.B. (Princeton); A.M. (Catholic University); Ed.M. (State University
of New York, Buffalo); Ed.D. (Michigan State)
- LEONARD J. POLESZAK (1956)Associate Professor, Industrial Arts
B.S. (State University College, Buffalo); Ed.M. (State University of
New York, Buffalo); Ed.D. (Michigan State)
- ADRIAN P. POLLOCK (1964)Associate Professor, Industrial Arts
B.S. (Stout College); M.E. (Wayne State)
- JUNE B. PRINCE (1948)Associate Professor, Health, Physical Education
and Recreation
B.S. (Indiana); M.Ed. (Pennsylvania)
- MARY LOU PULEO (1963)Assistant Professor, Health, Physical
Education and Recreation
B.S. (Columbia); M.Ed. (State University College, Buffalo)
- DEBORAH D. PUTZEY (1963)Assistant Professor, Anthropology
B.A., M.A. (Wisconsin)
- VAN E. QUAAL (1957)Associate Dean of Instruction
A.B. (Northern Michigan); A.M. (Michigan); Ed.D. (Wayne State)
- THOMAS J. QUATROCHE (1964)Admissions Counselor
B.S. (State University College, Fredonia); M.S. (State University of
New York, Albany)
- CLAIRE C. RABOW (1963)Instructor, Sociology
B.S. (State University of New York, Buffalo)
- LORAIN M. RAPS (1951)Nurse-Assistant Professor
R.N. (Buffalo General); B.S. (State University of New York, Buffalo)
- HELEN RAVIN (1963)Assistant Librarian
B.A. (State University of New York, Buffalo)

* On leave 1964-65

- MARJORIE J. REIDELL (1964)Assistant Professor, Exceptional Children
B.S., M.S. (State University College, Buffalo) Education
- RUTH REIMANCooperative Teacher, Buffalo Public School 52
B.S. (State University College, Buffalo); M.A. (State University of New
York, Buffalo)
- RONALD M. REUSS (1964)Assistant Professor, Science Education
B.A., M.A. (Albany)
- ELOISE L. RIPPPIE (1964)Associate Professor, Home Economics
B.S. (Kentucky); M.S. (Iowa State)
- WILLIAM C. RITZ (1964)Instructor Part-time, Science
B.A., Ed.M. (State University of New York, Buffalo)
- HOUSTON T. ROBISON (1949)Dean of Instruction
B.S., M.S. (Oregon); Ph.D. (Chicago)
- LLOYD E. ROBISON (1960)Assistant Professor, Education
B.S., M.S. (Southern Illinois)
- CECIL T. RODNEY (1948)Professor, Mathematics, Chairman of the
B.S. (St. Lawrence); M.A. (Columbia); Department
Ed.D. (State University of New York, Buffalo)
- JOHN A. ROEDER (1962)Professor, Vocational Technical Education
B.Ed., M.Ed. (State University of New York, Buffalo)
- MILDRED S. ROESSER (1940)Professor, History
B.S., M.A., Ed.D. (State University of New York, Buffalo)
- DAVID A. ROGERS (1950)Director, Graduate Studies
B.A., M.A. (State University of New York, Buffalo); Ph.D. (Wisconsin)
- LEO F. ROMANIUK (1956)Associate Professor, Industrial Arts
B.S., M.S. (State University College, Buffalo)
- RAE H. ROSEN (1963)Assistant Professor, Education, Campus School
B.S.Ed., M.S.Ed. (State University College, Buffalo)
- JEROME ROTHLEIN (1964)Assistant Professor, Art
A.B., A.M. (New York)
- ROBERT A. ROTHMAN (1963)Instructor, Sociology
B.S. (State University College, Buffalo); M.A. (Michigan State)
- ANNETTE T. ROTTENBERG (1963)Assistant Professor, English
B.S. (Wilson); M.A. (Harvard)
- ALMA R. ROUDEBUSH (1934)Professor, Home Economics
B.S. (Ohio State); M.A. (Columbia); Ph.D. (Ohio State)
- ELLSWORTH M. RUSSELL (1948)Professor, Industrial Arts
B.E. (Eastern Illinois); M.S. (Iowa State); Ed.D. (Pennsylvania State)

EDDIE E. SAGE (1963)*Professor, Education, Chairman of the*
B.A., M.A. (Iowa State); Ed.D. (Wayne State) *Department*

WARREN SANDERSON (1964)*Associate Professor, Art*
A.A., B.A., M.A. (Boston)

FRANCES M. SANFILIPPO (1962)*Instructor, Foreign Language*
B.S. (State University College, Buffalo)

DONALD J. SAVAGE (1963)*Professor, English*
A.B. (Hamline); M.A., Ph.D. (Minnesota)

CHRISTOPHER F. SCADRON (1962)*Assistant Professor, Art*
B.A. (Wesleyan); B.F.A. (Rhode Island); M.F.A. (Catholic University)

WINIFRED E. SCHASEL (1963)*Associate Professor, Home Economics*
B.S. (Bowling Green); M.S. (Cornell)

WILLIAM C. SCHEFLER (1958)*Associate Professor, Science*
B.A., Ed.M. (State University of New York, Buffalo)

MARGARET M. SCHRADER (1963)*Assistant Professor, Nursery,*
B.S. (State University College, Buffalo); *Campus School*
Ed.M. (State University of New York, Buffalo)

CHARLES R. SCHREIBER (1964)*Instructor, Education*
B.S. (State University College, Brockport); M.S. (State University Col-
lege, Buffalo)

CONRAD J. SCHUCK (1947)*Associate Professor, English*
A.B. (Dartmouth); M.A. (Harvard)

CHARLES B. SCOFIELD (1963)*Assistant Professor, Industrial Arts*
B.S. (State University College, Buffalo); M.Ed. (Ball State Teachers)

MARGUERITE S. SCOTT (1931)*Associate Professor, Social Studies,*
A.B. (Indiana); M.A. (Columbia) *Campus School*

EDWARD L. SEEBER (1958)*Associate Professor, Biology*
B.S., M.S. (Marshall)

DONALD W. SEEL (1962)*Assistant Professor, Social Studies*
B.A., M.Ed. (State University of New York, Buffalo)

ISABELLE SEGAL (1963)*Assistant Professor, Education*
B.S. (CCNY); M.A. (New York University); Ph.D. (Michigan)

RICHARD P. SEIBERT (1964)*Instructor, Social Studies*
B.S., M.A. (Bowling Green)

JAMES L. SELLS (1963)*Professor, Health, Physical Education and*
B.S., M.S. (Southern Illinois); *Recreation, Chairman of the Department*
Ed.D. (Columbia)

HOWARD G. SENGBUSCH (1951)*Professor, Biology*
B.S. (State University College, Buffalo); Ed.M. (State University of New
York, Buffalo); M.S., Ph.D. (New York University)

ALLEN G. SEXTON (1953)*Professor, History and Director, Secondary*
B.S. (State University College, Buffalo); *Education Division*
M.A., Ed.D. (State University of New York, Buffalo)

PHYLLIS SHEA (1963)*Assistant Professor, Education*
B.S. (State University College, Geneseo); M.S. (State University College,
Cortland)

HARRY J. SHELDON (1961)*Assistant Professor, Education,*
B.S. (State University College, Plattsburgh) *Campus School*

GEORGE R. SHERRIE (1947)*Professor, Education, Director, Evaluation*
B.S. (State University College, Buffalo); *and Research Center*
Ed.M. (State University of New York, Buffalo); Ed.D. (Syracuse)

J. STEPHEN SHERWIN (1956)*Professor, English, Chairman of the*
Department
B.S. (Wisconsin); M.A. (Columbia); Ed.D. (New York University)

FRANCIS T. SIEMANKOWSKI (1964)*Associate Professor, Science*
B.S. (State University College, Buffalo); M.Ed. (State University of New
York, Buffalo)

NOEL SIMMONS (1959)*Professor, Chemistry*
B.S. (CCNY); M.S. (Ohio State); Ph.D. (Minnesota)

JULIUS P. SLAVENAS (1962)**Assistant Professor, History*
B.A., M.A. (Illinois)

EDWARD O. SMITH, JR. (1963)*Assistant Professor, History*
B.A. (Muhlenberg); M.A. (Lehigh)

MARGUERITE M. SMITH (1954)*Associate Professor, Education,*
B.S. (Alabama); M.Ed. (Pennsylvania) *Campus School*

PHYLLIS K. SMITH (1963)*Assistant Professor, German*
A.B. (Kent); M.A. (Indiana)

SIGMUND A. SMITH (1964)*Professor, Mathematics*
B.S. (State University of New York, Albany); M.S. (State University
College, Brockport); M.S. (Illinois); Ed.D. (Pennsylvania State)

MIRIAM L. SPAULDING (1948)*Associate Professor, Health, Physical*
A.B. (Boston); M.A. (Peabody) *Education and Recreation*

* On leave 1964-65

- ROBERT SQUERI (1955)*Professor, Art*
B.A. (Brooklyn); M.A., Ed.D. (Columbia)
- EUGENE C. STAFFORD (1964)*Instructor, Industrial Arts*
B.S. (State University College, Oswego)
- H. GENE STEFFEN (1946)*Professor, Education, Coordinator of Audio-Visual Education*
B.S. (State University College, Buffalo);
Ed.M. (State University of New York, Buffalo); Ph.D. (Cornell)
- HENRY M. STEIGER, JR. (1963)*Assistant Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)
- BENJAMIN STEINZOR (1953)*Professor, Ceramics*
B.S. (New York University); M.E. (Alfred)
- SAMUEL T. STERN (1962)*Assistant Professor, Mathematics*
B.A., M.A., Ph.D. (State University of New York, Buffalo)
- SARAH STERRETT (1949)*Associate Professor, Education, Campus School*
B.A. (University of Wales); M.S. (State University College, Buffalo)
- FRANCIS G. STEWART (1962)*Associate Professor, Family Life Education*
A.B. (Grove City); Th.B. (Western Seminary);
M.Ed., Ph.D. (Pittsburgh)
- JAMES L. STEWART (1963)*Assistant Professor, Industrial Arts*
B.S. (Ball State Teachers); M.A. (Columbia)
- LENORE H. STEWART (1954)**Nurse, Student Health Services*
R.N. (Buffalo General)
- RICHARD A. D. STEWART (1950)*Professor, Family Life Education*
B.A., M.A. (Toronto); Ph.D. (Columbia)
- NEIL R. STILLMAN (1963)*Associate Professor, Industrial Arts*
B.S., M.S. (State University College, Buffalo)
- RAYMOND P. STONE (1959)*Associate Professor, Political Science*
A.B. (Massachusetts); M.A. (Princeton); Ph.D. (Princeton)
- MABEL M. STONER (1960)*Associate Professor, Home Economics*
B.S. (West Virginia); M.Ed. (Pennsylvania State)
- GLORIA J. STORY (1964)*Cooperative Teacher, Buffalo Public School 52*
B.S. (State University College, Buffalo)
- JAMES D. STRAUCH (1964)*Assistant Professor, Exceptional Children Education*
B.S. (State University College, Buffalo); M.S. (Syracuse)
- BURTON STULBERG (1956)*Consulting Psychiatrist*
B.A., M.S.S., M.D. (State University of New York, Buffalo)

* On Leave 1964-65

- RUTH SUGARMAN (1946)**Professor, Education*
B.S. (State University College, Buffalo); M.A. (Northwestern); Ed.D. (State University of New York, Buffalo)
- SHEILA R. SULLIVAN (1963)*Professor, Education*
B.A. (Mount Holyoke); M.A. (Syracuse)
- BENEDICT J. SURWILL, JR. (1963)*Principal, Campus School*
B.S., M.A. (Arizona); Ed.D. (Colorado)
- HENRY J. SUSTAKOSKI (1964)*Assistant Professor, English*
B.A., M.A. (State University of New York, Buffalo)
- CHARLES A. SWEDLUND (1963)*Assistant Professor, Photography*
B.S., M.S. (Illinois Institute of Technology)
- WILLIAM H. TALLMADGE (1949)*Associate Professor, Music*
B.M., M.M. (Oberlin)
- PAUL TARANTINO (1964)*Assistant Professor, Design*
B.F.A. (Carnegie); M.F.A. (Cranbrook)
- JOHN A. TAYLOR (1964)*Assistant Professor, English*
B.A. (Missouri); M.A., Ph.D. (State University, Iowa)
- IRVING H. TESMER (1957)*Professor, Geology*
B.A., M.A. (State University of New York, Buffalo); Ph.D. (Syracuse)
- CLEMENT T. TETKOWSKI (1949)*Professor, Community Design*
B.S. (New Jersey State); M.A., Ed.D. (Columbia)
- DAVID H. THIELKING (1948)*Professor, Physics*
B.S. (St. Lawrence); Ed.M., Ed.D. (State University of New York, Buffalo)
- DONALD E. THOMAS (1964)*Associate Professor, Exceptional Children Education*
B.A. (Central Washington College); M.A. (Columbia)
- HELEN R. THIELKING (1946)*Teacher-Librarian, Campus School*
B.S., M.S. (State University College, Albany)
- EDMUND J. THOMAS (1963)*Assistant Professor, English*
B.A., M.A. (State University of New York, Buffalo)
- RONALD G. THOMPSON (1960)*Instructor, English*
B.A. (Morehead); A.M. (Michigan)
- THOMAS N. THOMPSON (1964)*Assistant Professor, English*
A.B., M.A. (Pennsylvania)
- DONNA J. TOMAKA (1964)*Instructor Part-time, Science*
B.A. (State University of New York, Buffalo); M.Ed. (Rochester); M.S. (State University College, Buffalo)

* On leave, 1964-65

GUY B. TORCHINELLI (1959)Associate Professor, Mathematics
B.S. (Hobart); M.S. (Illinois)

DORIS M. TRAFTON (1957)Assistant Professor, Education,
B.S. (New Hampshire); M.S. (Syracuse) Campus School

CHARLES O. TREES (1964)Assistant Professor, Social Studies
B.S. (Indiana); M.S. (Butler)

TERENCE J. TRUDEAU (1961)Assistant Professor, Industrial Arts
B.S. (State University College, Oswego); M.Ed. (St. Lawrence)

DONALD W. TRUEBLOOD (1953)Associate Professor, English
B.S. (Eau Claire); M.A. (Northwestern)

NORMAN F. TRUESDALE (1947)Professor, Photography
B.S. (State University College, Buffalo); Ed.M., Ed.D. (State University
of New York, Buffalo)

REN-DEH TUAN (1962)Professor, Science
B.S. (Cheeloo); M.S., Ed.D. (Denver)

EDWARD C. TURNER (1964)Instructor, Education
B.S., M.S. (State University College, Buffalo)

MADeline K. TURNER (1953)Nurse-Assistant Professor, Coordinator,
R.N. (Buffalo General); Student Health Services
B.S. (State University of New York, Buffalo); M.A. (Columbia)

PATRICIA A. TURSI (1964)Assistant Professor, Education
B.S. (Indiana State College); M.S. (West Virginia)

RICHARD D. TWADDLE (1963)Assistant Professor, Mathematics
B.S. (Mayville); M.A. (Bowling Green)

FRANCES S. L. TYAU (1959)Associate Professor, Education, Campus
Ed.B. (Hawaii); M.A., Professional Diploma (Columbia) School

ROBERT T. TYLER (1963)Admissions Counselor
B.S. (Cornell)

JOHN URBAN (1946)Professor, Science
B.S. (Kent State); A.M., Ph.D. (Columbia)

ROLLAND VAN HATTUM (1963)Professor, Speech Pathology and
B.S. (Western Michigan); M.S., Ph.D. (Pennsylvania State) Audiology

JOHN H. VANN (1963)Associate Professor, Geography
B.A., M.S. (Louisiana State); Ph.D. (California)

RUSSELL C. VANNOY (1961)Assistant Professor, Philosophy
A.B. (Missouri State); A.M. (Illinois); A.M. (Harvard)

CONRAD C. VOGLER (1964)Instructor, Social Studies
B.S., M.S. (State University College, Brockport)

MARY C. VUCINICH (1947)Professor, English
B.S., M.A. (Cincinnati); Ph.D. (Iowa)

JAMES J. VULLO (1960)Instructor, Drawing
(Art Institute of Buffalo); (Honolulu Academy of Art)

BURTON S. WAAGEN (1946)Professor, Industrial Arts
B.S. (Duluth); M.A., Ed.D. (Columbia)

MAZIE E. WAGNER (1950)Professor, Education
B.A., M.A. (State University of New York, Buffalo); Ph.D. (Columbia)

SAMUEL J. WAKSHULL (1963)Associate Professor, Mental
B.S., M.A. (New York University) Retardation

NORMAN G. WALKER (1963)Assistant Professor, Education
B.S., M.S. (State University College, Buffalo)

MARGARET WALLACECooperative Teacher, Buffalo Public School 52
B.S. (D'Youville)

WILLIAM P. WALSH (1963)College Physician
M.D. (State University of New York, Buffalo)

INEZ M. WARE (1959)Associate Professor, Education
B.A. (Occidental); M.A., Ed.D. (Columbia)

STEVEN WAXLER (1964)Instructor Part-time, English
B.S. (State University College, Buffalo)

ERNEST C. WEAVER (1961)Assistant Professor, Art
A.A. (Multnomah); B.S., M.Ed. (Lewis and Clark)

NORMAN F. WEAVER (1950)Professor, History
B.A. (Ball State Teachers); M.S., Ph.D. (Wisconsin)

PAULINE A. WEAVER (1948)Associate Professor, Home Economics
B.S. (Ohio State); M.A. (Columbia)

WILLIAM J. WEAVER (1964)Assistant Professor, Industrial Arts
B.S. (State University College, Oswego); M.A. (New York University)

GENE S. WELBORN (1958)*Professor, Sociology
B.S. (Illinois); M.S. (Indiana); Ed.D. (New York University)

MILDRED C. WELLS (1957)Professor, Education
B.A. (State University, Iowa); M.A., Ph.D. (Ohio State)

HELEN WERNEJOWSKICooperative Teacher, Buffalo Public School 52
B.S., M.S. (State University College, Buffalo)

WILLIAM G. WEST, JR. (1964)Counselor
B.A., M.S. (State University of New York, Buffalo)

* On leave 1964-65

JAMES E. WESTROPE (1963) *Assistant Professor, Mathematics*
A.B.Ed., M.A. (Michigan)

PAUL A. WHEELER (1962) *Assistant Professor, Health, Physical*
B.S. (E. Illinois); M.S. (West Virginia) *Education and Recreation*

RICHARD L. WHITFORD (1961) *Assistant to the President and*
..... *Director of International Education*
B.A. (Tasmania); Dip.Ed., B.Ed. (Melbourne); C.A.S. (Harvard); M.A.,
Ed.D. (Columbia)

BETTY L. WICKE (1963) *Instructor, English*
B.A. (Denison); M.A. (Ohio)

WENDEL B. WICKLAND (1964) *Instructor, Science*
B.A. (Kalamazoo College); M.S. (Eastern Michigan University)

RICHARD A. WIESEN (1964) *Assistant Professor, Mathematics*
B.S.Ed. (Clarion); M.S. (Syracuse)

JOHN WILLIAMS *Cooperative Teacher, Buffalo Public School 52*
B.S., M.S.Ed. (State University College, Buffalo)

DUWAYNE E. WILSON (1960) *Associate Professor, Design*
B.S., M.S. (State University College, Buffalo)

ROBERT C. WILSON (1963) *Assistant Professor, Design*
B.A., M.A. (Los Angeles State)

JOSEPH F. WINCENC (1947) *Professor, Music*
Mus.B. (Oberlin); Mus.M. (State Conservatory of Music, Prague,
Czechoslovakia); M.A. (Columbia)

D. KENNETH WINEBRENNER (1939) *Professor, Jewelry*
B.S. (Indiana State, Pennsylvania); M.A., Ed.D. (Columbia)

JAMES F. WINSHEL (1961) *Professor, Mental Retardation*
Diploma (St. Vincent); A.B., M.Ed., Ed.D. (Pittsburgh)

ROLAND WISE (1955) *Associate Professor, Drawing*
B.F.A. (Manitoba); M.A. (New York University)

CAROL L. WITZLEBEN (1964) *Instructor Part-time, English*
B.S., M.S. (State University College, Buffalo)

ANTON WOLF (1963) *Associate Professor, Music*
B.M., M.M. (New England Conservatory)

EARL W. WOLFGRUBER (1960) *Associate Professor, Advertising Design*
Ed.B. (State University of New York, Buffalo)

DOROTHY E. WOMER (1959) *Director of Housing*
B.S. (Kent); M.S. (Indiana)

WILLIAM D. WRIGHT (1962) *Assistant Professor, History*
A.B., M.A. (Michigan)

LIONEL D. WYLD (1963) *Professor, English*
A.B. (Hamilton); A.M., Ph.D. (Pennsylvania)

RALPH YALKOVSKY (1962) *Associate Professor, Geology*
B.S., M.S., Ph.D. (Chicago)

VAN P. YELVINGTON (1964) *Instructor, Health, Physical Education*
B.S. (Bouve-Boston School) *and Recreation*

BERNARD B. YORMAK (1963) *Professor, Clinical Psychology*
B.S. (Long Island); M.S. (Wisconsin); Ph.D. (Pennsylvania State)

DARRELL D. YOUNG (1960) *Assistant Professor, Science*
B.A. (Iowa); M.A. (Colorado)

JAMES H. YOUNG (1964) *Assistant Professor, Education*
B.S. (State University College, Fredonia); M.S. (State University Col-
lege, Buffalo)

L. STANLEY ZIELINSKI (1958) *Associate Professor, Industrial Arts*
B.F.A., M.F.A. (Alfred)

LAVERNE R. ZIMMER (1952) *Assistant Professor, English and*
..... *Mathematics, Campus School*
B.E. (State University College, Geneseo); M.A. (Stanford)

GARY E. ZIMMERMAN (1964) *Instructor, Education*
B.S. (Wisconsin)

WALTER J. ZIMMERMAN (1962) *Director, Vocational Technical Division*
B.S. (State University College, Buffalo); M.S., Ed.D. (State University of
New York, Buffalo)

JOSEPH S. ZINGARO (1958) *Associate Professor, Chemistry*
B.S. (State University College, Geneseo); M.S., M.Sci.Ed. (Syracuse)

The College

The State University of New York College at Buffalo, established and maintained by the State of New York, is under the jurisdiction and control of the State University Board of Trustees, the President of the State University, and the Local Council of the College.

OBJECTIVES

The College achieves its primary purpose, the education of teachers for the public schools of New York State, by observing the following objectives:

1. To give the student a broad cultural background in the principal fields of organized knowledge.
2. To give the student a mastery of the field to be taught and a supporting knowledge of related fields.
3. To help the student understand the important position of the teacher in the relationship between education and society.
4. To aid the student to develop a personality that will prepare him for leadership in the school and the community.
5. To help the student acquire a knowledge of child growth and development.
6. To help the student understand and master the professional knowledges and skills needed for successful teaching.
7. To encourage the student to develop a guiding philosophy of education and of life.

CURRICULA

The curricula offered by the College are:

1. *Art Education*—A four-year curriculum leading to the degree of Bachelor of Science preparing teachers and supervisors of Art for the elementary and secondary schools of New York State.

2. *Early Childhood Education*—A specialization within the Elementary Education Curriculum leading to certification for teaching in Nursery School and Kindergarten in addition to Grades one through three of the elementary school.
3. *Early Secondary Education*—Curriculum leading to certification for teaching in grades seven, eight and nine of a junior high school; begun in undergraduate study and completed by taking thirty or more semester hours of graduate study.
4. *Elementary Education*—A four-year curriculum leading to the degree of Bachelor of Science for teaching in the elementary schools of New York State (Kindergarten through grade six).
5. *Exceptional Children Education*—An extension of the Elementary Education Curriculum leading to certification for teaching in the elementary grades and in one of the following areas; orthopedically handicapped, hard of hearing, impaired vision, speech correction, and mentally retarded.
6. *Home Economics Education*—A four-year curriculum leading to the degree of Bachelor of Science for teachers of Homemaking in the elementary and secondary schools of New York State.
7. *Industrial Arts Education*—A four-year curriculum leading to the degree of Bachelor of Science for teachers of Industrial Arts in the elementary and secondary schools of New York State.
8. *Secondary Education*—A four-year curriculum leading to provisional certification for teaching English, Foreign Language, Mathematics, Science and Social Studies in the secondary schools of New York State (Grades seven through twelve), certification becomes permanent by completion of thirty-two semester hours of graduate study.
9. The Vocational Technical Education Division prepares candidates to teach Vocational Trade Shop, Related Trade Subject, Technical Subjects and Related Technical Subjects in the public Vocational and Technical High Schools of New York State. Graduates of the basic program are eligible for certification in accordance with the Regulations of the Commissioner of Education.

10. The Division of Arts and Sciences provides many required courses for the various Teacher Education Divisions. In addition the Division offers a wide variety of elective courses that may be selected by students in all Divisions.
11. A Liberal Arts curriculum leading to the B.A. degree is available to students with junior status. Area majors are available in Social Studies, the Humanities and the Arts; Departmental majors in Arts, English, History, Language, Mathematics, and Music. An interdivisional major may be elected in Latin American Studies.
12. *Graduate*—A program leading to the degree of Master of Science, in the areas of administration and supervision, Art Education, Early Secondary Education, Elementary Education, Exceptional Children Education, Home Economics Education, and Industrial Arts Education.

THE CAMPUS AND BUILDINGS

The College, located on Elmwood Avenue near Scajaquada Creek, consists of a campus of over seventy acres and the following buildings:

Rockwell Hall, of Georgian Colonial design, contains the offices of the President, Dean of Instruction and Dean of Students; the Division Directors for Arts and Sciences, Elementary and Secondary Education; and the Admissions, Placement, Evaluation Center, Faculty-Student Association, Financial Secretary, Health Center, Planning and Development, Public Information, Graduate Division, Alumni, and Summer Session offices.

Jesse Ketchum Hall named in honor of Jesse Ketchum, who deeded to the city of Buffalo the lot of land to provide a State Normal School in the city of Buffalo, contains the offices and numerous classrooms and laboratories for the English and Language Departments and the Vocational Technical and Exceptional Children Education Divisions.

Gertrude Mary Bacon Hall, named in honor of the former faculty member and principal of the School of Practice, contains the offices of the Principal, houses the Campus Elementary School and Junior High School, the Child Study Center and it serves as a teacher-education laboratory.

The Edward H. Butler Library, named in memory of a past president of the former Board of Visitors, contains the office of the College Librarian and houses the extensive book and periodical collection of the College.

Caudell Hall, named in honor of Myrtle V. Caudell, former Director of Home Economics Education Division, and completed in 1963, contains the offices and classrooms of the Home Economics Division.

The College Union contains the offices of the Assistant Deans of Students, and provides complete recreational facilities for students, including the Alumni Lounge, Niagara Room, Music Rooms, Activity Rooms, Game Rooms, Snack Bar and Dining Room.

Irving P. Bishop Hall, in honor of a former member of the faculty of the Buffalo State Normal School; Susan Frances Chase Hall, in honor of a former teacher of English and psychology; the Louise Margaret Cassety Hall, in honor of the former director of the Kindergarten Department of the Buffalo State Normal School; the George Bradford Neumann Hall, in honor of a former faculty member who served as Dean of Men of the College, and the May Louise Perry Hall, in honor of a member of the faculty of the Buffalo State Normal School, and a new multi-storied residence hall opened in the fall of 1963, will furnish residence on campus for men and women.

The original Gymnasium provides facilities for the College Store, mail services, and includes a swimming pool, locker rooms and offices.

The new Health, Physical Education and Recreation Building completed in 1962, provides the main facility for departmental instruction and spectator sports.

The Adelbert Moot Hall, in honor of a distinguished Buffalo lawyer who served as a member of the Board of Regents from 1912 until his death in 1929, is the newest dining facility, completed and opened in 1959, provides the college community with dining, banquet and coffee lounge facilities and houses the offices of the Food Services Staff.

The State Room Lounge, off the main lobby of Moot Hall, provides opportunities for leisurely and restful dining.

The Daniel Sherman Upton Hall, in honor of the third principal of Buffalo State Normal School, opened in the summer of 1962, and houses the Art and Industrial Arts Divisions.

The Home Management House located near the college, at 5 Granger Place, provides residence for Home Economic Seniors to gain first-hand experience in the care and management of a home.

The new Science Building, completed in 1964, provides offices, classrooms and laboratories for the biological and physical sciences.

Future capital expansion includes a second Science Building, a N-12 Campus School, Athletic Fields, a Maintenance Building, a new student union, a new library, lecture hall, classroom building, and additional residence and dining halls.

The Buffalo metropolitan area provides many education and recreational institutions and facilities, among which are the Albright-Knox Art Gallery, the Buffalo Historical Museum, the McKinley Vocational High School, the Erie County Technical Institute, the Buffalo Museum of Science, Kleinhans Music Hall, the Buffalo and Erie County Libraries, the Studio Theater, Memorial Auditorium, and the War Memorial Stadium.

The College is readily accessible by bus and car from all parts of the city and suburban areas, and is easily reached from railroad, air and bus terminals.

Admission to Undergraduate Study

Admission to State University College at Buffalo is based on the academic and personal qualifications of the respective applicants as they promise success in the College. Applicants for admission, either as freshmen or with advanced standing, should be able to meet the requirements below. Application materials can be obtained and arrangements for visiting made through the Admissions Office, State University College, 1300 Elmwood Avenue, Buffalo, New York, 14222.

FRESHMAN ADMISSION REQUIREMENTS

1. A diploma awarded by an approved high school upon the completion of a four year course of study, or a State High School Equivalency Diploma.
2. High school preparation
 - a. Required:
 - (1) For admission to the *secondary education* (gr. 7-12) *mathematics and science curricula*: for mathematics, chemistry or physics specialization, mathematics three units, sciences three units; for general science, earth science or biology specialization, mathematics two units, science three units.
 - (2) For admission to a *French or Spanish program*: at least two years of high school study in the proposed major language.
 - b. Recommended:
 - (1) A high school program which reflects a balance between general, special or technical studies as nearly as possible like that in the college curriculum to which the applicant seeks admission. For all students "college entrance" electives in high school will offer the best preparation for the general studies area in the College curricula; beyond this, electives in special fields (art, home economics, industrial arts, music) are preferred to the degree that they appear in the applicant's proposed College course of study.

- (2) Regents examination scores. These permit the College to judge the applicant's achievement with greater confidence and uniformity, minimizing the differences among high school programs.
 - (3) For admission to the *Home Economics Education curriculum*, the student should have shown competence in high school sciences, preferred in this order: chemistry, biology, or physics and mathematics.
 - (4) For admission to the *Industrial Arts Education curriculum*, preference will be shown to applicants who present two units of mathematics (including elementary algebra) and two units of science.
3. Satisfactory high school grades.
4. Satisfactory scores from the New York State Regents Scholarship Examination or the State University Admissions Examination.
5. For applicants to the teacher education programs, personal qualities which indicate probable success in the teaching profession as shown by a personal interview with a college representative.
6. A physical examination report indicating the applicant's freedom from physical defects or diseases.
7. At least 16 years of age.

Final decision on an application is made on the basis of all of the above qualifications plus the high school's recommendation for success in college.

APPLICATION PROCEDURE

1. Secure application forms and instructions from the College Admissions Office any time after the beginning of the senior year in high school.
2. Complete the application form and cards and mail them with a \$5.00 application fee (non-refundable) in the addressed envelope accompanying the application forms.
3. Fill out page one of the High School Record form and submit it to the appropriate high school office for completion and forwarding to the College. Information called for on page four is particularly important in the admissions process.

4. New York State residents must take the New York State Regents Scholarship Examination or the State University Admissions Examination. An examination permit is returned to the applicants after application form and cards are filed. Non-residents of New York State must take the Scholastic Aptitude Test of the College Entrance Examination Board and have the results forwarded to the College.
5. Appear for the personal interview if requested. Applicants living in Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Livingston, Monroe, Niagara, Ontario, Orleans or Wyoming counties will be invited to the campus for interview. Applicants from other areas of the state will be informed of an appointment when a College representative will be near their homes to complete admissions interviews, although they are welcome to request appointments when they can visit the campus and complete the interview requirement at the same time.

Applicants for admission to the *Division of Art Education* must present a portfolio of art work as part of the interview.

6. With the application, high school record, admissions examination scores and interview report, the College may make an admissions decision conditional upon completing further requirements. Acceptance at this point requires the applicant to submit an acknowledgment of the acceptance, a satisfactory medical report on a form sent with the acceptance notice, residence card, and a \$50.00 non-refundable deposit on the first semester Student Association collections.
7. Final acceptance is offered following the receipt from the applicant's high school verifying certification of graduation and satisfactory senior year marks. Acknowledgment of final acceptance is also required before registration is permitted.

Applicants accepted for admission should be present on the opening day of the college year and will not be admitted thereafter except by special permission. Those unable to attend this opening session should notify the Admissions Office. Those absent without permission relinquish their status to those on a waiting list.

Applicants desiring to enter the College at the beginning of the second semester should write directly to the Director of Admissions

for complete information. Admissions at this time of the year depend upon circumstances and are not a regular occurrence.

ADVANCED STANDING ADMISSION REQUIREMENTS

1. Applicants for admission with advanced standing must apply to the Admissions Office on an Advanced Credit Application Form which may be secured from the office.
2. Applicants must submit an official transcript* of all college work taken elsewhere and evidence of honorable dismissal.
3. Applicants must meet all general requirements including personal interview, if required, and health report.
4. Applicants of freshman and sophomore rank are required to take the New York State Regents Scholarship Examination or the State University Admissions Examination. All applicants transferring from other State University units should have copies of their Admissions Examination scores sent to the Admissions Office from the unit previously attended.

* An official transcript is one mailed directly from the college issuing it, to this College.

Student Expenses

Below are listed tuition and fees for residents of New York State. Students from other states pay six hundred dollars tuition each year, payable three hundred dollars each semester.

Required College Fees

	First Semester	Second Semester	Total
Tuition	\$200.00	\$200.00	\$400.00
College Fee	12.50	12.50	25.00
Student Association Collections	25.50	25.50	51.00
Insurance Premium	12.00	12.00	24.00
Total	\$250.00	\$250.00	\$500.00
Orientation fee (freshmen only)	\$2.50		\$2.50

Estimate of Yearly Expense

Expense Items	Living Away from Home		Living at Home
	Residence Hall	Off-Campus	
Tuition and Fees	\$500.00	\$500.00	\$500.00
Books and Supplies*	100.00	100.00	100.00
Room	300.00	250-350	
Board (Breakfast and Dinner)	340.00	250-375	
Lunches (not on contract)	160.00	135.00	100.00
Personal Items	300.00†	300.00	300.00
Total	\$1660-1760	\$1450-1775	\$1000.00

* Art, Home Economics and Industrial Arts students should increase this estimate by the following amounts: Art \$100; Home Economics \$55; Industrial Arts \$25.

† Personal items may vary widely depending upon the individual situation and may include such items as travel to out-of-town home, commuting to college, clothing, cleaning, laundry, personal grooming and recreation.

FEES AND COLLECTIONS

A combined charge of \$76.00, half payable each semester, is collected annually from each student. This fund is apportioned as follows:

1. The College Fee is used to provide equipment and services in College Union Building.
2. The Activity Tax supports student publications, dramatic presentations, musical organizations, film showings, convocations, and social activities.
3. The Athletic Tax supports a comprehensive intramural and varsity athletic program for men and women and admits students to all athletic events at the College.
4. The College Camp Tax is used to develop, equip, and maintain the College Camp for student use.
5. The Health Service Tax helps to provide health services including an annual physical examination, first-aid, consultations, and other essential health benefits.
6. The Class Dues are used for cultural, social and professional activities which are open to all members of the class. For the Senior Class this includes senior activities.

In addition to the above (not included in the \$76.00) are these fees:

1. The Orientation Fee is a charge of \$2.50 to be paid by Freshmen and transfer students entering in September.
2. The Accident and Sickness Insurance Premium of \$24.00 provides coverage at all times during the college year, on or off the campus, including athletic and camp activities.

Student Personnel Program

OFFICE OF THE DEAN OF STUDENTS

The Student Personnel Staff is responsible for all phases of the student life program on campus which includes:

1. Coordination of the group activity and leadership education program.
2. Provision for individual and group student counseling.
3. Supervision of all residence programs and facilities.
4. Administration of the military affairs program.
5. Provision of an educationally-oriented health program.
6. Administration of the financial aids program.

The Student Personnel Council consisting of student and faculty representatives serves as an advisory and policy-recommending group to the Student Personnel Program.

STUDENT RESIDENCES

All students who do not live at home in Buffalo or who do not live with relatives are required to live in residence halls on the campus if space is available.

Residence Halls—Living accommodations for eleven hundred and sixty women students and two hundred men students are provided in six residence halls. Most rooms have facilities for two students; a few are equipped for triple occupancy. Rooms have beds, built-in wardrobes, dressers, and study desks. Lounges, recreational facilities and laundry rooms with washers and dryers are provided.

Students provide their own pillows, blankets, bedspreads, window draperies, study lamps and irons. Students may provide their own bed linens or use a linen rental service which is available. Board in the College Dining Halls includes fourteen meals per week (breakfast and dinner daily). Lunch and snacks are available in the cafeteria and snack bars. Applications should be addressed to the Director of Residence, State University College at Buffalo, 1300 Elmwood Avenue, Buffalo, New York, 14222.

Off-Campus Residences—Off-campus residence for students in nearby private homes approved by the College supplement the facilities on campus if room is not available in Residence Halls. Some homes permit students to earn their maintenance. There are also a few housing facilities in which students provide food and services for themselves. Inquiries regarding off-campus residence and requests to live with relatives other than parents, should be addressed to the Director of Residence.

Residence Registration—A statement of residence is required at the time of Registration. No change in a student's residence can be made without prior approval of the Director of Residence. This regulation applies to both men and women students, including commuters and Buffalo residents.

HEALTH SERVICES

Health Facilities on Campus—The College maintains Student Health facilities on campus for first-aid and general health services with the main office in Rockwell Hall and another in the College Union building. Registered professional nurses are available twenty-four hours a day. The college physician is in the Rockwell Hall office three hours a day, Monday through Friday, for diagnosis and medical care of students.

Preadmission Health Requirements—All students must secure an examination by a physician, a chest x-ray, a urinalysis and a recent smallpox vaccination (within three years) prior to admission.

The Campus Health Program—The College Health Service provides medical examinations without charge in certain special cases, as well as for all athletes prior to their engaging in competitive sports. All students approved for student teaching are required to have a second physical examination done by the college physician and a chest x-ray for the detection of tuberculosis immediately preceding a student teaching assignment. The prospective student teacher is responsible to obtain his x-ray either through county facilities or at his own expense by a radiologist of his own choosing.

Necessary laboratory tests are made when advisable. From time to time certain preventive health measures are offered to students such as flu vaccine. Immunizations are given only with the consent of

the parent to students under 21 years of age. Parents and students will be informed at the time of any new undertaking. It is highly recommended that parents consent to have their sons and daughters participate in these programs for the optimum health of the college community.

The college reserves the right to refuse any student admission to class who fails to take the required physical examinations, chest x-ray and/or immunizations.

Community Medical Resources—The College maintains a close relationship with hospitals and selected medical specialists in the community as an additional safeguard to the health of its students.

Charges for Health Program—A Health Service Fee, part of the Student Association Collections, helps maintain the health services provided for all students.

Insurance—All students must enroll in the Group Health and Accident Insurance Policy selected by the Student Association or present evidence of membership in some other satisfactory health and hospital-insurance plan.

COUNSELING SERVICES

The Office of the Dean of Students provides individual and group counseling services for all students. Special referrals are made to other services on and off the campus for those needing them.

The Faculty Adviser Program—Each student meets several times during the year with his Faculty Adviser in individual conference and group sessions. The Adviser, well-informed of the progress and problems of the student, helps him develop personally and professionally.

Junior Counselors—Selected Juniors serve as counselors to new students during their first year and help them adjust to college life.

Freshman Orientation—The first week of the fall semester known as New Student Days introduces the Freshman to college life, traditions, academic offerings, campus facilities, and student activities. As a concluding feature students are encouraged to attend college-sponsored week-end camps. An Orientation course is required during the first semester for every new student.

OR. 100 Orientation—Designed to assist entering students in their adjustment to the college environment through a study of the college society, the issues related to college life and the students' role and purposes. Required of all students for graduation. *One hour per week. No credit.*

Individual and Group Counseling—Is available to students with academic, personal, or personality problems. Many students refer themselves and some are referred by housing or teaching staff.

Student Activities

The campus activities reflect the interests and needs of students. Some provide for cultural development, social relationships, leadership training, civic responsibilities and spiritual enrichment; others aid students to select hobbies, exercise special abilities, and grow professionally.

College Union—The College Union, "the living room of the campus," unites the College community through social, educational and cultural experiences. The Union provides many opportunities for democratic living, for student leadership, for creative self-expression, for social contact with the faculty, and for the development of a mature sense of social responsibility.

An ongoing recreational program throughout the year is centered in the College Union. These activities are essentially provided by student activity taxes without additional cost to students, and are planned and carried out by the College Union Board. They are varied in nature to provide for a wide range of interest. Some of the most popular include:

Union Open Houses—informal occasions providing games, dancing, music, cards.

Film Showings—a varied program of American and foreign films.

Dances—formal and informal, sponsored by various student organizations, as well as the College Union Board.

Coffee Hours—in conjunction with convocations, Reader's Hours, group meetings, distinguished guests, art show openings.

Art Workshop—opportunities for groups or individuals to work informally or seriously and creatively.

Campus Traditions—Some student activities have been so long a part of the College life that they have become traditions: Freshman Camps, Inter-class Sing, Frosh-Soph Dazing, Dean's Tea, College Holiday Week, State Fair, Leadership Conference, Parents' Weekend, Senior Week, Moving-Up-Day.

Student Governing Groups—All students upon matriculation become members of the College Student Association. The Student Congress, the governing body of the Association, is the agency for the expression and implementation of student opinion. It coordinates college-wide programs through its administrative commissions, boards, and special committees. The four classes conduct business and carry out special activities under the guidance of the class officers.

The on-campus residence halls each have their own elected governing associations. These governing councils meet separately to consider all business of the individual hall; joint problems and activities are handled through the Inter-Residence Halls Association. These Councils sponsor a variety of supplementary activities to enrich the social and educational program of the college.

Professional and Cultural Groups—The Art Club, for any student interested in art, is both professional and social. The club is a member of the Eastern Arts Association and the Committee on Art Education.

The Daniel Upton Chapter of Students of Education Association of New York State studies professional aspects of teaching. Local chapter members enroll in the New York State Teachers Association and the National Education Association.

The Home Economics Club, affiliated with the American and New York State Home Economics Association, provides for the development of leadership and participates in services to the College and the community by such activities as a "get acquainted" party, articles for newspapers, and fashion shows.

The Council for Exceptional Children is an affiliate of the national organization of the same name. Membership is open to college students interested in teaching children who are mentally handicapped, blind or partially sighted, deaf or hard-of-hearing, orthopedically handicapped or speech defective. Regular meetings give the members opportunities to meet and talk with specialists in the field. Visits are made to special schools and residential institutions.

The Debate Club is open to all interested students and club members participate in several intercollegiate tournaments as well as local programs.

The Industrial Arts Club, open to students and faculty in the Industrial Arts Division of the college, exists to promote high standards of professionalism in Industrial Arts education and a strong Industrial Arts fellowship.

The Mathematics Club, open to all interested persons, is designed to promote a better understanding of mathematics in its relation to life, modern methods of teaching, the basic tools of mathematics and to encourage independent study.

Casting Hall, the student dramatic organization, produces several plays each year. It offers, in addition to opportunities for acting, experiences in costume and stage set design and construction.

A Cappella Choir membership is determined by an audition, which emphasizes intonation, tone quality and musical ability. Concert engagements include the Christmas concert, other special concerts and an annual choir tour.

The Men's and Women's Glee Clubs are open to all who can qualify by an audition held at the beginning of each semester. These groups participate in Christmas and Spring concerts, concerts at local schools and churches, and other concerts both on and off campus during the year.

Band, open to all students who can satisfactorily play an instrument, contributes to the life of the College through performances at athletic events and special concerts including the Concert-On-The-Green in May. College-owned instruments are available for student use.

Orchestra membership is open to all students who can satisfactorily play an orchestra instrument. College-owned instruments are available.

The Foreign Language Club, open to all students with an appreciation of the languages, the customs, and the cultures of the peoples of the world, affords an opportunity for expression in dramatics, music, discussions conversation.

The International Relations Club encourages students to broaden their interest in current world events and promotes international understanding in future teachers.

The Philosophical Society encourages the serious discussion of issues and problems that face the student as he lives in today's world. Its membership includes both students and faculty.

Convocations held throughout the year provide special occasions when most of the students and faculty can come together for a common purpose. The programs include distinguished political commentators, literary personages, musical programs, and other events that together make a rich phase of college life. Convocations are planned by the Convocation Board of the College Student Association.

Religious Groups:

Canterbury Association, an organization of Episcopalians and other students interested in the Episcopal Church, holds meetings and special events including speakers, fellowship breakfasts, services of Holy Communion.

The Christian Science College Organization is comprised of Christian Science students who are eager to increase their understanding of this religion. Inspirational meetings are held weekly to help the members make practical the concepts this religion teaches. Meetings are open to the student body.

Hillel, an organization open to students interested in the Jewish faith, offers religious, cultural and social activities. Programs, including guest speakers, discussions, holiday ceremonies, music and folk dances, develop deeper understanding and appreciation of the Jewish heritage.

Inter-Varsity Christian Fellowship, an international and interdenominational organization active on college campuses the world over, emphasizes positive Christian living based on teachings from the Scriptures.

The Lutheran Student Association assists students in the study and appreciation of Lutheran doctrines and beliefs. It sponsors an active program of forum and fellowship meetings, study groups, retreat conferences, and service projects. The national L.S.A. participates in the United Student Christian Council and shares in the life of the World Student Christian Federation.

The Newman Apostolate promotes the spiritual, intellectual and social growth of Roman Catholic students. Besides providing formal worship opportunities for students, its activities include the Newman Institute of Studies (a four-year curriculum of studies in Theology and Philosophy), lectures, retreats, discussion groups, and social activities. It maintains the Newman Center, adjacent to the campus, which includes a chapel, classrooms, recreation room, student lounge and library. The Newman Apostolate is affiliated with the National Newman Apostolate.

Wesley Fellowship—To lead students to Jesus Christ, to deepen Christian faith, to foster Christian education, to offer projects of service, to interpret Christian vocation and to deepen a sense of world Christian community.

Honorary Groups—Epsilon Pi Tau is the Tau chapter of the national fraternity which limits its membership to Industrial Arts

majors having an academic average in the upper half of their class. Its objectives are to promote research, to provide desirable social experience, and to recognize excellence in the crafts.

Kappa Delta Pi is the Gamma Mu chapter of the national society. Members must be of junior standing with six hours of credit in education courses and be in the upper quartile of the College. Candidates for membership must reveal exceptional interest in education by a letter submitted to the organization and must also manifest desirable personal traits and leadership qualifications.

Phi Upsilon Omicron is the Mu chapter of the national fraternity. Home Economics majors from the upper classes having achieved high scholastic records and having demonstrated professional leadership are selected as members. It provides for personal and professional developments of its members.

Social Groups—Ten fraternal organizations on campus, four open to men and six open to women, select their members by invitation. The fraternities are Delta Kappa, Gamma Chi, Psi Phi, and Sigma Tau Rho. The sororities are Alpha Sigma Pi, Alpha Tau Sigma, Delta Sigma Upsilon, Pi Kappa Rho, Pi Omega Nu, Sigma Sigma.

The State Spartans is a social group open to all men. The club's purpose is to foster the social, educational and spiritual development of its members.

The Boosters of College Morale is a social club open to any male student, graduate, or faculty members of the College. Its purpose is to promote better college morale and to give special support to campus activities.

Publications—College life is reflected and recorded by four publications, each edited by a student staff whose membership is open to all students.

The Record, the weekly newspaper, features current news of campus events and expresses student opinions on many issues, local, national, and international.

The Elms, the annual yearbook, contains a record of the Senior Class and College organizations.

The Elm Leaves, an annual literary magazine, contains selected creative writings and art work of the students.

The Handbook, containing brief general information about the College and its programs, is published during the summer.

Outdoor and Camping Activities—The College Camp, one of the major recreational features of the College, consists of four hundred and thirty-five acres of rural landscape, partly wooded, partly open, located in Cattaraugus County. Its hills and numerous ponds are ideal for skiing, skating, and other winter sports. Maple groves, wooded areas, open meadows, and streams make it a delightful summer recreation spot. An expansive lodge, equipped with large fireplaces, provides pleasant accommodations for fifty students for overnight or week-ends. The Camp, owned by the students and administered by the College Camp Board, is open for the use of all student groups and alumni.

Athletic and Recreational Activities Program—The College provides a balanced and extensive program of athletics for all students, including both varsity and intramural activities.

Varsity athletics include baseball, basketball, cross-country, golf, soccer, tennis, swimming, both indoor and outdoor track and field. College varsity teams have won numerous State Championships; their schedules include many of the leading colleges in the East, and they are permitted to participate in the N.C.A.A. and N.A.I.A. National Championships as a member school.

Women's recreational activities, through the Women's Recreation Association, include intramural competition in archery, badminton, basketball, bowling, fencing, softball, swimming, tennis, and volleyball. An opportunity is also given for participation in camping, group singing, field hockey, horseback-riding, golf, folk dance, modern dance, synchronized swimming, and table tennis.

The Men's Athletic Association sponsors intramural athletic activities for men which include basketball, bowling, cross-country, badminton, golf, horseshoes, softball, swimming, table tennis, tennis, and volleyball.

Through these sport activities students are able to win a College Letter, the College Key, or the College Blanket. All College athletics are coordinated by the Student Athletic Board and supported by the Athletic tax. Students are admitted to all College sports events without cost.

Cheerleading Club is open to any woman student. Tryouts are in the early fall. The Cheerleaders actively support the College athletic teams at home and at many away games.

Drillettes are a woman's marching group who appear in various college and community events with a basic purpose of promoting spirit. Tryouts are held in the early fall.

Ski Club—Membership is open to all students at the college who are interested in skiing.

Varsity S Club provides a common meeting ground for men interested in furthering intercollegiate athletics. Membership is open to men who have earned a major varsity athletic award.

Collegiate Parachutists is a newly-formed club open to all students 18 years or older who meet the physical and medical requirements. Its purpose is to foster interest in sport parachuting.

Student Financial Aid

The question of how to finance a college education is a perplexing and disturbing one for many college students. Recognizing this, the Dean of Students Office gives assistance to students in understanding and in solving these problems. The following is the information that students need to make intelligent decisions about financing their education at this College.

For further information write to:

Coordinator of Financial Aids

State University College

1300 Elmwood Avenue

Buffalo, New York, 14222

Appointments to discuss problems or questions with the coordinator may be made in Room 212, Rockwell Hall.

NEW YORK STATE AID

New York State offers various types of financial assistance to qualified college students who are State residents. It is very important that students seeking such aid obtain full information and meet promptly each application deadline.

Scholar Incentive Program—New York State residents who demonstrate a capacity to pursue a degree and plan to attend college or graduate school, and those who are presently in college or graduate school and maintain satisfactory academic performance are eligible. \$100 to \$300 yearly for undergraduates; \$200 to \$800 yearly for graduates depending on need and tuition paid.

Regents College Scholarships—New York State residents who plan to attend college and qualify in a competitive examination during final year of high school are eligible. Children of deceased or disabled veterans may qualify for 500 separate awards. \$250 to \$700 yearly depending on need and tuition paid, with a minimum award of \$250 yearly.

Candidates should seek directions from their high school principal and/or guidance counselor, or write: Regents Examination and Scholarship Center, New York State Education Department, Albany 1, N.Y.

SCHOLARSHIPS

Scholarships are generally offered to students showing outstanding qualities of leadership, academic capability and performance and potential for teaching. Evidence of financial need is usually important in the selection of scholarship winners. The College offers scholarships to entering freshmen and upperclassmen, administers scholarships offered by outside organizations and provides an information service on outside scholarships.

College Scholarship Award

Established in 1957, the first awards were made in 1959 to students evidencing outstanding teaching potential and financial need. A fund of approximately \$10,000 is available annually for grants of \$100 to \$500 depending on financial need. Though a majority of these awards are made to upperclassmen, several awards are made to entering freshmen. *This award is the only scholarship assistance made available by the College itself to entering freshmen.* Applications are available January first and must be submitted by April 15.

Other Scholarships

Approximately twenty-five scholarships are awarded annually to upperclassmen. These awards range from \$25 to \$200 in value and usually are made to students for outstanding performance in their major field who show evidence of financial need. These and other scholarships of interest follow:

The Buffalo Council of Parents and Teachers Scholarships—Several scholarships of one hundred dollars each are awarded to students in an Education Curriculum annually by the Buffalo Council of Parents and Teachers. Candidates must be graduates of Buffalo Public High Schools and residents of Buffalo. Application is made through the Student Financial Aids Office.

Luella Chapman Scholarship—Alpha Tau Sigma Sorority awards an annual scholarship to a non-sorority woman who is judged to be of high character and leadership. This scholarship is made anonymously to a woman student who is in financial need. The person is selected by the faculty adviser of the sorority and the Coordinator of Financial Aids.

John R. Crespi Scholarship—Presented to the College in 1954 by David E. Crespi, Class of January 1951 in honor of his father. It will be awarded to a sophomore student in financial need who has achieved a scholastic rating of B or higher. Selection is made by the Awards Committee of the Art Education Division.

Raymond M. Fretz Scholarship—Established in 1952 by Delta Kappa Fraternity to honor the former Dean of Men. It is awarded annually to a man and a woman who are selected by the fraternity for their outstanding citizenship and scholarship.

Blanche E. Kelsey Scholarship—Established in 1964 by The New York State Federation of Home Bureaus. This scholarship is awarded annually to a Home Economics student by a committee composed of members of the Home Economics Faculty and representative of the New York State Federation of Home Bureaus. It consists of the income from an investment of \$3,000 given to the college by the New York State Federation of Home Bureaus. Application forms are available in the Office of the Director of Home Economics.

Nassau-Suffolk Home Economics Extension Service Scholarship—Established in 1960 by the Home Economics Extension Service in Nassau-Suffolk Counties on Long Island. This scholarship for Home Economics students is awarded every three years. It is made possible through donations by members of the Home Economics Extension Service in Nassau and Suffolk Counties on Long Island. Application forms are available in the office of the Director of Home Economics.

Pi Kappa Rho Scholarship—Awarded annually by the sorority, this scholarship is presented to a man or a woman selected on the basis of financial need, scholarship, and the potential for teaching.

Grace A. Powell-Home Bureau Scholarship—Established in 1953 by the New York State Federation of Home Bureaus. This scholarship is awarded annually to a Home Economics student by a committee composed of members of the Home Economics faculty and representative of the New York State Federation of Home Bu-

reaus. It consists of the income from an investment of \$5,000 given to the College by the New York State Federation of Home Bureaus. Application forms are available in the office of the Director of Home Economics.

Regents College Scholarship—This is a general college scholarship designed for all high school graduates who plan to attend college. Approximately 17,400 scholarships are awarded annually to residents of New York State on a competitive basis. Each scholarship carries a stipend of \$250 to \$700 a year depending on financial need for each year of study leading to a baccalaureate degree and is valid for a maximum of four years at any accredited college or university in New York State.

Mildred L. Sipp-Phi Upsilon Omicron Scholarship—Established in 1957 by the Mu Alumnae Chapter of Phi Upsilon Omicron. The scholarship is awarded annually to a senior student who is majoring in Home Economics. Applications will be received from Juniors in the Home Economics Division during the month of April. Application forms are available in the Office of the Director of Home Economics.

Mary S. Switzer Scholarship—Established in 1962 by the Buffalo and Erie County Extension Service. This scholarship is awarded annually to a Home Economics student by a committee composed of members of the Home Economics faculty and representatives of the Buffalo and Erie County Extension Service. It consists of the income from an investment of \$5,000 given to the College by the members of the home demonstration units of the Buffalo and Erie County Extension Service. Application forms are available in the office of the Director of Home Economics.

War Orphans' Educational Assistance Act of 1956—Educational benefits are provided to children of veterans who died in service or as a result of a disability received while in the service during World War I, World War II or the Korean Conflict. The educational allowance of \$110 per month for four years of college is paid to full-time students who are between the ages of 18 and 23 and under certain circumstances to children under 18 years of age. Students who believe they may be eligible for these benefits are urged to discuss the matter with the Coordinator of Financial Aids or a representative of the Veterans Administration.

Wheelock Scholarship—Since 1931 a cash award is granted annually by the New York State Association of Secondary School Administrators to a male student in the Junior Class who shows promise of becoming an outstanding school teacher or administrator. The candidate is recommended by the Director of the Secondary Education Division.

Alumni Scholarship—Established in 1962 by the Alumni Board, three scholarships are awarded annually at Moving-Up-Day. Applications are received by the Alumni Board before March 30.

Scholarship Information

Many scholarship funds have severely limiting geographical, religious, curricula, occupational, or other criteria. The outstanding student, however, who is willing to do the research required to find a foundation which does not restrict him from applying, and who is willing to write the necessary letters, *should be able to gain scholarship assistance*. Sources for this information are available in the Office of the Dean of Students. Entering freshmen will also find that their high school guidance counselors have information about scholarships awarded by organizations and foundations in their home communities.

LOANS

Loans are more generally available now than at any other time in the history of American higher education. In addition to evidence of financial need, students usually must be in good standing at the College and willing to take responsibility for the earliest possible repayment of the debt. In some cases, repayment may be delayed until the student has graduated from the College.

College Loan Funds

Short-Term "Emergency" Loans—The Office of the Dean of Students administers several small loan funds. Students may borrow as much as \$35.00 on short notice. All enrolled students are eligible for these interest-free loans. Loans must be repaid within three months.

Delta Kappa Clifford Braun Loan Fund—Established in 1959 by the Fraternity and the parents of Clifford Braun in his memory.

Faculty Wives Club Emergency Loan Fund—Established in 1951.

Memorial Student Aid Loan Fund—Established in 1954 by the Dean of Students Office from memorial gifts for students.

The Catherine E. Reed Loan Fund—Established in 1955 to honor the former Associate Dean of Students, Miss Catherine E. Reed.

Spartans Club Loan Fund—Established in 1958.

Long-Term Loans

The Office of the Dean of Students administers several long-term loans. Students may borrow as much as \$150. Only students who have been enrolled at the College for one semester and who are in good standing are eligible for these interest-free loans.

Alcoa Foundation Loan Fund—Established by the College from gifts received from the Alcoa Foundation of Pittsburgh, Pennsylvania.

Business and Professional Women's Club of Buffalo, Inc. Loan Fund—Established in 1959 to assist young women residents of Buffalo to meet unexpected expense in connection with their college careers.

Hube Coyer Loan Fund—Established in 1956 to honor Professor Coyer, former coach of the basketball team.

Delta Kappa Gamma Emergency Loan Fund—Established in 1955 by Delta Kappa Gamma, the Honorary Women Teachers Organization.

Faculty Wives Club Loan Fund—Established in 1957.

Alice Osgood Hamilton Loan Fund—Established in 1956.

The Harry J. Steel Loan Fund—Established in 1955 to honor the former Director of Education.

The Residence Center Council Loan Fund—Established in 1955 to grant loans to students who are living away from home.

Rita Viette Memorial Loan Fund—Established in 1958 from the contributions received in memory of Rita Viette by students, faculty and her parents.

Other Loan Funds

National Defense Student Loan—Full-time undergraduate college students in good standing who are citizens or permanent residents of the United States, and who show evidence of financial need may borrow as much as \$500 per semester, \$1,000 per year and \$5,000 for their college career. Repayment begins one year after leaving college and may be spread over ten years. Three per cent interest begins after leaving college. There is no interest while the student is enrolled full-time. Those who serve as full-time teachers in a public elementary or secondary school may have ten per cent of the loan cancelled for each year of full-time teaching up to five years.

Applications are available and due at the dates noted below. Students applying after the due dates listed below should consider a bank loan under the New York Higher Education Assistance Corporation.

	<i>Application Available</i>	<i>Application Due</i>
<i>Semester</i>		
Fall	January 3	April 15
Spring	October 1	November 30
Summer	January 3	April 15

New York Higher Education Assistance Bank Loans—Full-time undergraduate and part-time graduate students who are residents of New York State and show evidence of financial need may borrow under this plan from a local bank in amounts as follows: Freshman—\$750, Sophomore—\$1,000, Junior—\$1,250, Senior—\$1,500, and Graduate (part-time)—\$750. Repayment begins sixty days after leaving college and may be spread over six years. There is no interest while attending college and three per cent after leaving college. Applications may be secured from most banks or the Office of the Dean of Students. Usually the student must be resident of a community considered by the bank to be in their lending area. Students should apply to a local bank where they, or their parents, have been customers or depositors. Application may be made at any time.

Alumni Association Loan Fund—Juniors and Seniors in good standing are eligible for interest-free loans up to \$300, repayable within eighteen months after graduation.

Elizabeth C. Lange Loan Fund—Established in 1925 by the Alumnae of the Home Economics Division as a memorial to Miss Elizabeth C. Lange, the first director of the Home Economics Division. It is an interest free loan fund for Home Economics students. Application forms are available in the office of the Director of Home Economics.

New York State Home Economics Association Loan Fund—Established in 1962 by the New York State Home Economics Association. It is an interest free loan fund for Home Economics students. Application forms are available in the office of the Director of Home Economics.

Vocational Technical Education Certificate Program Alumni Organization Loan Fund—Established in 1964 by the Vocational Technical graduates of the teacher certificate program. It is an interest free loan fund for Vocational Technical students. Information and application forms are available in the office of the Director of Vocational Technical Education.

Loan Information

The Coordinator of Financial Aids maintains contact with the following organizations which make loans to some students according to special criteria:

American Association of University Women

New York State Congress of Parents and Teachers, Inc.

Rotary Club of Buffalo

High school guidance counselors have information about loans made by organizations in the students' home community.

PART-TIME AND SUMMER EMPLOYMENT

The Student Part-Time Employment Service assists students to meet some of their expenses through part-time work on the campus or in the community. Students seeking summer employment have an opportunity to study job opportunities at camps, resorts and in business and industry. The Service operates under the direction of the Coordinator of Financial Aids.

Preliminary Considerations

The experience of college students has proved the advisability of counting on part-time employment for only incidental and not essential expenses.

The student is expected to give serious consideration to the additional demands which part-time employment will place on his time and energy. The College recommends twenty-one hours of work a week as a maximum and that freshmen not plan to work during the first semester.

Students should also make a realistic appraisal of their total financial situation prior to seeking employment. The Coordinator of Financial Aids will assist students in making a sound appraisal of their financial problems and suggest various solutions.

Types of Jobs

Approximately twenty-five per cent of the students at the College earn one-quarter or more of their collegiate expenses. Since the opportunities are varied, it is possible only to list the major types of employment. These are: Campus Food Service—waitress and dishwasher; College Offices—clerk, typist, stenographer; College Buildings—custodial and cleaning; College Library; Retail Sales—sales clerk, cashier, stock clerk; Restaurants—waiter and waitress; Direct Commission Sales; and odd jobs—includes baby sitting, shoveling snow, yard jobs, window cleaning, painting, etc.

Each job is a private arrangement between the student and the employer. On-campus wages vary from \$.85 to \$1.50 per hour, depending on the skill or physical labor required. Off-campus wages are generally higher; however, travel time and transportation need to be taken into consideration in determining real income.

Most employer requests vary between twelve and fifteen hours of employment. Some openings occur which provide more or less time.

Student Helping

Student helping is an arrangement whereby women students may work twenty-one hours a week in nearby private homes for room, board, including lunch or lunch money, bus fare and five dollars per

week. Work assignments usually include child care, assistance with meals and dishes and other light household duties. Student helpers do not work during major school vacations. One weekend evening is usually left free for the student's own use. Student helpers are expected to observe the same hours and regulations as in the residence halls.

This arrangement is not recommended for entering freshmen unless there is no way to manage freshman year expenses. Adjustment to college life is complex enough for most students. It is often discouraging to add twenty-one hours of work each week, the adjustment to a new family and the inevitable loss of companionship that the arrangement entails.

If the student finds that student helping is necessary, she must make an appointment with the Coordinator of Financial Aids to secure College approval.

VETERANS AND MILITARY AFFAIRS

Veterans' Affairs—All veterans planning to use their educational benefits under Public Law 550 or Public Law 894 must register at the beginning of each academic year in the Office of the Dean of Students. In addition, veterans under Public Law 550 are required to submit monthly certifications of attendance to the Office of the Dean of Students. A veteran planning to use his GI Bill for the first time must make an application for educational benefits to the Veterans Administration. It is recommended that this application be made before registering at the College.

Platoon Leaders Class—Qualified undergraduates may enroll in the Platoon Leaders Class, United States Marine Corps, which consists of two summer training periods of six weeks each. Upon successful completion of the Bachelor's degree and this course, a student will be commissioned a Second Lieutenant in the United States Marine Corps Reserve. There is no military training during the academic year. Those who are enrolled in this program may be deferred from the draft.

Selective Service—Males must register with a Selective Service local board on or within five days of their eighteenth birthday. Out-of-town students may complete this registration in the Office of the Dean of Students. The Registrar notifies local boards of college attendance.

AWARDS

The College recognizes student excellence and achievement by conferring awards for outstanding scholarship, leadership, character and participation in various activities programs.

Bishop Honor Award—Given by Delta Sigma Upsilon to honor Dr. Elizabeth Bishop, a former member of the faculty. The award consists of a silver medal which is presented to a senior woman chosen by the sorority for outstanding scholarship, leadership and character.

Delta Kappa Athletic Award—First given in 1935 by Delta Kappa Fraternity. It is presented to a male senior student who is selected as the most outstanding individual in intramural and varsity sports by a Faculty Committee.

Delta Kappa Award for Character, Leadership and Scholarship—Established in 1935 by Delta Kappa Fraternity this Gold Medal Award is presented to a male senior student who is chosen by a Faculty Committee for outstanding character, leadership and scholarship.

Ruth Elliott Houston Honor Award—Established in 1953 by the Women's Recreation Association in honor of the former chairman of the Department of Health, Physical Education and Recreation. It is granted to the senior woman student who is judged to be outstanding in leadership, scholarship and participation in women's health, physical education and recreation activities. The recipient is selected by the Department from nominations submitted by the Association.

Hispania Medal—First awarded at the College in 1952. It is presented to one or two students for scholastic achievement in Spanish. The selection is made by a faculty committee.

Harry Ray Scholastic Award—This award is given in honor of Harry Ray who wrote the words and music of the Alma Mater by Sigma Tau Rho Fraternity to the senior of that fraternity who has the highest cumulative average.

Arnie Schorno Award—Given in memory of Arnie Schorno a former member of Sigma Tau Rho Fraternity to the senior of this fraternity who has contributed the most to the College and to Sigma Tau Rho Fraternity.

Sigma Upsilon English Award—Established in 1932 by Alpha Delta Chapter of Sigma Upsilon, national honorary literary fraternity, and given to a graduating senior man who has been judged to be the outstanding student in English as selected by the Department of English.

Walter B. Weber Honor Award—Established in 1949 in honor of Walter B. Weber, a retired faculty member. It is presented to a senior in Industrial Arts Education who has demonstrated outstanding personal growth, leadership and scholarship. Nominations for this award are made by a committee appointed by Sigma Tau Rho Fraternity. The final selection is made by the Director of the Industrial Arts Education Division and the Sigma Tau Rho Committee.

Women's Recreation Association Awards—These awards, established in 1943 by Ruth Houston, Gertrude Roach and a committee of students are given for participation in extra-curricular sports. The first award, a three-inch block "S" in orange and black felt is given for the accumulation of 500 points. The second award, a six-inch block "S" in orange and black chenille is given for the accumulation of 1,500 points. The third award, a gold "S" key is given for the accumulation of 2,000 points.

Hube Coyer Award—Established in 1953 by the Athletic Council and the Alumni Varsity Club in honor of Hube Coyer, a former Director of Athletics who established the Varsity Athletic Program and The Block "S" Dinner. Awarded for outstanding athletic achievement for four years at Buffalo State.

Alumni Award—Athletic and Academic Achievement—Established in 1962. Awarded to the Senior man who has best combined outstanding athletic achievement with academic excellence.

President's Award—Presented to senior athletes who have earned six or more Varsity awards during their college career.

Academic Regulations

ATTENDANCE REGULATIONS

1. Attendance at classes and other College appointments is required. A student's schedule constitutes a series of obligated appointments.

2. Following an absence, the student must furnish a satisfactory explanation to his instructors. He should also recognize the educational loss to himself and supplement it by fulfilling all assignments that were missed.

3. Students absent for more than one week for personal illness must get a clearance statement from the Student Health Service Office before re-entering classes. This is not an excuse. Each instructor must initial this "clearance" as the student re-enters class. When signed by all of the student's instructors the "clearance" must be returned to the Health Services Office.

4. Excessive or chronic tardiness will not be tolerated.

5. A student may be excluded from a course if the instructor considers absences and tardiness to be too frequent for acceptable achievement. Any recommendation to this effect must be forwarded to the student's Division Director who will upon review issue the necessary status change.

All College academic policies shall apply to all undergraduate students regardless of student status, program or college session.

Each student is entitled to a catalog and must retain and apprise himself of its contents as they apply to him.

AUDITING OF COURSES

The official auditing of any course is prohibited. Anyone wishing to visit a class must obtain permission from the Dean of Instruction, and will be admitted at the discretion of the instructor concerned.

UNIT OF CREDIT

The semester hour is the course unit of credit. It represents the satisfactory completion of one class period per week, with all re-

quired preparation, for one semester. A course having three class periods a week will, therefore, earn three semester hours credit. Studio, laboratory, and shop classes usually earn one credit for each two hours of attendance unless otherwise indicated. Two hours of student preparation for each class hour is the accepted minimum college standard.

No undergraduate course may be offered or elected for less than or more than the number of credit hours as indicated in the registered course description.

DEAN'S LIST

The Dean's List is an honor roll of students whose academic average for one semester (a minimum of fourteen semester hours) is 3.5 or higher. Semesters in which student teaching occurs are not used in preparing the list. No student with a grade of "U" is eligible.

DISMISSAL

A student shall be dismissed from the College for:

1. Failing any subject for the third time.
2. Failing one-half or more of a semester's work as scheduled.
3. Failure to meet the probation regulations.
4. Failure to cooperate in carrying out the policies and regulations of the College.
5. Conduct of an unacceptable nature.
6. Social and emotional adjustment unacceptable to the profession.
7. Failure to satisfactorily complete student teaching.

GRADING SYSTEM

The following grades and status indications are used by the College to indicate the quality or status of student achievement:

Grades A—Superior work; B—Work above average; C—Average; D—Work below average, but passing; E—Failure or unofficial withdrawal from a course; S—Satisfactory; U—Unsatisfactory.

Status: W—Official withdrawal; I—No points, work incomplete.

QUALITY POINT SYSTEM

The following quality point system is used in determining averages:

For each hour of A—four quality points; B—three quality points; C—two quality points; D—one quality point; and E—no quality points. No other grades have quality point value.

No point value for advance credit work completed at other institutions is included in the computation of the academic standing at this College.

The quality point average is determined by dividing the total number of quality points earned by the total number of semester hours attempted. When a course is repeated, both the new and the original grades and hours are included in computing the semester average and the cumulative average.

The grades of S and U and semester hour credits earned in student teaching will not be included in determining a student's quality point average, since they have no quality point value.

REQUIREMENTS FOR GRADUATION

All students must complete the prescribed curriculum of the division in which they are registered with an average grade of C or higher (a cumulative quality point average of 2.00). A grade of S in total number of curricular required hours of student teaching must be earned before a student will be recommended for graduation. The final senior semester must reflect a 2.00 semester average.

The total hours for graduation in any curriculum shall be that number indicated by the particular program.

A minimum of 32 semester hours, including the last 16 hours of the student's work, must be completed in residence.

APPLICATION FOR GRADUATION

Students expecting to qualify for a degree as of August or January must make application in the Registrar's Office by March 1 of the semester preceding completion of their requirements. Those expecting to qualify for a degree as of June must make similar application by November 1 of the preceding year.

In the next to last semester of each student's program a graduation check sheet is mailed to each student listing all remaining require-

ments. Any candidate for graduation must review this summary and report any errors to his Division director.

All obligations to the College must be met before qualifying for graduation.

HONORS FOR COMMENCEMENT

To be eligible for honors citation at commencement a student must have a 3.5 or higher cumulative average for all work completed at this institution but in no case less than 60 semester hours.

The designations Summa Cum Laude, Magna Cum Laude, and Cum Laude shall be respectively granted to the twenty per cent, thirty per cent and fifty per cent of the total number of students with average of 3.5 or higher.

No student with an "I" or "U" outstanding shall be considered for honors.

"INCOMPLETES"

Any "incompletes" must be made up by the end of the semester following the semester in which it was given.

Failure to comply shall result in a request to the instructor to submit a grade reflecting this absence of materials and in terms of the work that was completed. It is the student's responsibility to make all the appropriate arrangements in such cases and at the convenience of the instructor.

SEMESTER HOUR LOAD

The normal semester hour load of a student is that indicated by the curriculum outline for each division for the specific semester. A student may register for additional or fewer hours than required by the curriculum only with the approval of the student's Division Director in advance of registration.

CREDIT FOR EDUCATIONAL EXPERIENCE IN MILITARY SERVICE

College credit may be granted for educational experience received in military service, specialty schools, technical training schools

and basic training programs. Evaluation of such experience will be made in terms of its relation to the degree requirements of the College and the recommendations suggested by the American Council on Education Credit Manual. Request for such credit should be addressed to the Military Affairs Counselor, Office of the Dean of Students.

In no case shall credit accepted from such a source exceed sixteen semester hours. Such credit as a transfer student may have received from any prior institution for such credit is subject to review and re-evaluation. Accompanying such a request must be all documents which evidence completion of such courses or experiences.

CREDIT FOR COLLEGE PROFICIENCY EXAMINATIONS

1. Credit may be granted to students admitted to the College for subjects in which a grade of A, B, or C was received in the CPE when such subjects meet the curricular requirements of the specialized divisions of the College.
2. Students receiving a grade of D may be admitted to an advanced course but no credit will be granted for the beginning course thus exempted.
3. The general admissions and residence requirements of the College will apply to students requesting credit for the CPE.
4. Matriculated students must receive advance approval from their Division Director before undertaking examination for credit.
5. Credit for examination will not be granted to a student who has credit for a college course in the same or an overlapping subject area.

ACADEMIC PROBATION

Students shall be placed on academic probation for failure to meet the requirements as indicated in the following regulations:

1. No student shall be placed on academic probation earlier than the end of his first semester of attendance.
2. No student shall be continued on probation for more than two consecutive semesters beyond that semester which resulted in the original status being imposed.

3. Those students earning less than a "C" but greater than a "D" for the first time shall be placed on Probation, "P", automatically and appropriately notified.
4. The categories of probation shall be known as Probation, "P", for the first semester and Final Probation, "FP", for the second semester.
5. Any student who for the first time does not earn a "C" semester average shall be placed on Probation, *regardless* of his cumulative average.
6. Any student who earns or carries less than twelve semester hours in a semester shall be placed on probation or final probation unless his reduced load has been given prior approval by his Division Director.
7. Any student placed on probation shall remain on probation until his semester *and* cumulative averages reach a "C", or the two semesters of registration entitlement on probation have ended; whichever occurs first.
8. Any student, except freshmen, who earns less than a "D" semester average shall be disqualified from further registration.
9. A student on probation may not re-enroll for participation, student teaching or a post-teaching seminar.
10. Any student on academic probation shall be ineligible to hold a student office, and if on final probation shall, in addition, be ineligible to appear in any public performance or activity of the college.
11. Whenever a student's achievements, while on probation, are such as to result in both the latest semester and cumulative averages being "C", he shall be removed from probation.
12. Any freshman whose first semester average at this college is less than a "C", thus placing him on probation, shall report to the Dean of Students office for a conference within the first month of the ensuing semester.
13. Any student readmitted to the College shall be placed on that step of probation he would have been on had he not withdrawn.
14. A student who attends summer session, and who satisfactorily completes a minimum of six semester hours, shall have

his probation status affected for the next semester of enrollment.

15. Students who fail to earn a satisfactory academic record at this college shall be disqualified. Such student may have the privilege of making an appeal to the Probation Appeals Committee through the Office of the Dean of Instruction. This appeal is optional and not mandatory.

SOCIAL PROBATION

A student violating accepted social practices of the campus will be placed on Social Probation and will receive special counseling services from the Office of the Dean of Students. While on social probation he is ineligible to hold office in any campus organization, to serve as chairman of any committee, to play on a College team, or to represent the College in any public or intercollegiate activity.

A student involved in a minor social conduct offense will be placed on a Warning Status. This action will not be entered on his permanent record nor prevent him from participating in college activities if he improves in behavior and attitude.

REGISTRATION

All students are required to register on the dates announced by the College Registrar. Registration after these dates must have the approval of the Director of the Division, and such approval may only be granted for requests involving medical reasons. Under no circumstances may a student be admitted after the close of the first week of classes.

All students must present and have in their possession on the day of their registration, his semester grade reports, pre-registration card and all other materials pertinent to registration.

At the time of initial admission to the College each student is assigned a permanent student number. Each is urged to remember and use this number when conducting college business, particularly registration.

REPEATED COURSES

When any student repeats any course in which he has received a mark of "E", that student's semester average and cumulative average shall be computed by dividing the total number of honor points earned by the total number of credit hours attempted.

A required course is to be made up during a session indicated by the Division Director. Non-required courses are to be made up at the discretion of the Division Director or appropriate re-scheduling affected.

When a required course has been failed, it must be made up the following semester unless it is not offered or the faculty adviser in consultation with the Division Director deems it inadvisable.

SPECIAL REQUESTS

Requests for special privileges relating to academic matters are to be made to the student's Division Director.

WITHDRAWAL FROM COLLEGE AND COURSES AND HONORABLE DISMISSAL

Students finding it necessary to withdraw from College or a course, must do so officially to maintain good standing and eligibility for honorable dismissal and for possible readmission.

Withdrawal should proceed as follows:

1. Consult the Division Director and obtain a permit to withdraw.
2. File the permit with the Registrar and complete withdrawal procedure as outlined by that office.

Where it is impossible to do this in person, it must be done by a letter signed by the student or a parent.

All students who officially withdraw from College with no outstanding obligations or commitments are in good standing and are entitled to honorable dismissal.

Refunds of fees as are due will be made on a pro-rated basis up to the middle of the semester after which there are no refunds.

TRANSCRIPTS OF RECORD

Official transcripts of record are not issued to students, either undergraduate or graduate, but will be forwarded upon request to educational authorities whom the students may designate. No charge is made for the first transcript. No charge is made to men and women in the armed services.

Unofficial student semester grade reports will be mailed to each student regularly at his last known place of residence.

Educational Services

ACCELERATED PROGRAMS IN TEACHER EDUCATION

Accelerated Programs of study in each curricular division enable students to complete the regular four-year program in three calendar years. This is accomplished by attending three ten-month academic years and three or four eight-week Summer Sessions. Students who are accepted for this program begin their college program in July as Freshmen, or for those who have attended our College for one year, as Sophomores. A planned program will be given to each person who enters the program as a Sophomore. There can be no deviation from the prescribed program, except that as may be approved in advance by the Division Director. This means a student cannot fail a course, and must maintain an average of 2.00 each semester. If the student fails to meet the above conditions, he is automatically removed from the accelerated program. Those students wishing to accelerate must confer with their Division Director and be granted official approval.

ALUMNI RELATIONS PROGRAM

The Alumni Association, a coordinating agency for Alumni affairs, maintains a record file of all graduates in its office. It regularly supports a Scholarship Fund, Student Loan Fund and publishes Bulletins periodically during the year to keep the alumni informed of Association activities and campus developments. In addition, it promotes an annual Homecoming Night, special performances of college plays and concerts, a June Reunion dinner and dance, and the Rockwell Memorial Fund. It administers the Buffalo State Alumni Foundation Fund, Inc., which is a recently-added responsibility; significant contributions to the college, the staff, the students and the college community will be made through this program which is controlled by the Alumni Association.

The association presents a Special Service Award at the Reunion dinner, an award to the Senior athlete who has won at least one major varsity award and has maintained the highest academic average at the Block "S" dinner, and three scholarship grants at the Moving-Up-Day

Program. Inquiries should be addressed to the Alumni Secretary, Rockwell Hall, State University College, Buffalo, New York.

AUDIO-VISUAL FACILITIES

Instructional equipment of all kinds, available at convenient locations throughout the College, provide for the audio-visual needs of the instructional program. Films, slides, tapes and specialized equipment are distributed from the Audio-Visual Center which coordinates the program, maintains a film library (1,100 titles), and provides advisory services. Limited production facilities are available for development of slides, tapes, filmstrips, etc. Supplemental audio-visual materials are secured from museums, art galleries, industrial organizations and film libraries of other universities.

CAMPUS SCHOOL

The Campus School has a faculty of thirty and a pupil enrollment of five hundred children. The children attend classes from three-year-old nursery school through ninth grade. The school is used to provide laboratory experiences for college students in order that they may observe, participate with, and teach children in a variety of situations. The Campus School participates in a program of experimentation and research. The school's program is based upon the child development concept of education. The facilities found in the school include a home economics laboratory, an art studio, an industrial arts shop, a science laboratory, gymnasium-auditorium, health clinic, library, and general classrooms.

The Campus School Library contains more than 10,000 children's books, filmstrips, recordings, pictures and other materials of value to the pupils and teachers. Weekly instruction in the use of the library and occasional story hours are provided by the Librarian.

CHILD STUDY CENTER

John M. Dodd, Director

Charles M. Greenshields, Research Associate

Doris R. Miller, Clinical Associate

The Child Study Center is a service agency that provides resources and educational experiences not offered elsewhere in the college program. Physical facilities include a room where children can work, play or be interviewed; an observation room equipped with a one-way

vision screen through which college students and faculty can study children's behavior; and offices used for conferences and testing.

The major objectives of the Center are to supplement and illustrate the content of formal course work in child development, to serve as a referral agency for students who request help in preparing class assignments, to assist with children who are referred for psychological testing or because of adjustment problems, and to provide resource materials related to child development. Included among materials available to faculty and students in the Child Study Center are an extensive file of standardized individual and group tests, current reading lists on child and adolescent psychology, samples of cumulative record and report card forms, mimeographed material on many aspects of child development and child study, case studies of children, tape recordings and charts related to human development.

Reports of current research in the area of child development are prepared and distributed each month. Other research projects, including longitudinal studies of Campus School children, comprise a further activity of this service.

COLLEGE PLACEMENT SERVICE

The Placement Office serves to help prospective graduates and graduates to secure the teaching positions they are best prepared to fill and to provide schools with competent, qualified teachers. The Office maintains a complete folder of personal data and references for each candidate, thus providing a continual source of confidential information for use by employing officials. Every candidate for the Bachelor's degree is required to register with the Placement Office. The forms necessary for registration and information concerning procedures to follow are available in May for all juniors expecting to graduate in January, June, or August of the following year.

GRADUATE PROGRAM

The Graduate Program offers late afternoon, evening, and Saturday morning classes on the College campus during the academic year. Graduate courses are available in the areas of Art Education, Early Secondary and Secondary Education, Elementary Education, Elementary Principalship and Supervision, Exceptional Children Education, Home Economics Education and Industrial Arts Education.

Requirements for the master's degree in the several curricula are described in the Graduate Bulletin. Further information about

graduate study may be obtained by writing to the Director of the Graduate Division.

INTERNATIONAL EDUCATION

In keeping with its responsibilities to all mankind in an ever-shrinking world, the College has embarked on a vigorous and many-sided program of international education to foster the broad purposes of international understanding and goodwill. It is felt that such purposes are especially significant for the education of teachers. The following is a brief description of some of the major features of this expanding program.

Increasing numbers of foreign students are studying at the College and this year over fifty students representing some twenty-seven countries will be enrolled. In an atmosphere of mutual reciprocity, these students are encouraged to participate actively in the College's academic and social life and they have brought a significant enrichment to the campus. An International Center is provided where domestic and foreign students have special opportunities to meet and get to know each other in informal, friendly surroundings. A cordial invitation is extended to all students to visit the Center regularly.

Study abroad is encouraged and the Semester in Siena Program is well established. Each semester forty students, accompanied by two professors, take a wide range of courses in art, history, English literature, Italian, home economics and sociology in Siena, Italy where they live with Italian families. Expansion of overseas study programs, notably in Latin America, is being planned. A Student Exchange Program is operated with the University of Puerto Rico. Several Summer Study Abroad Programs are provided for graduate students each summer.

The curriculum is being enriched and strengthened to include international area studies and special attention is given to non-Western cultures. This year a Latin American Area Studies Program* will be inaugurated providing for both a liberal arts major and an elementary education concentration. Each year a cooperative student-faculty project, known as Emphasis Week, is organized by the International Affairs Commission of the Student Congress and a particular country is highlighted in special studies and activities throughout the campus for a week.

A scheme for visiting professors has been established and expanding opportunities are provided for administration and faculty

members to teach and visit overseas. Training and internship programs are operated for visiting international students and educators in active cooperation with a wide variety of both governmental and private sponsoring agencies. A steady flow of incidental visitors is also received and special programs are worked out to suit their needs and interests.

The College participates with the Peace Corps in many of its activities and continuous planning is taking place to increase the College's commitment in this highly important international enterprise. Eighteen students to date have joined the Peace Corps as volunteers and this year the College will enroll its first Peace Corps volunteer returnee to continue studies under a special scholarship provided for this purpose.

A wide and diverse range of community organizations is at present associated with the College's international program and the College is actively represented in significant national organizations related to problems and issues of international education.

Further detailed information on these and other activities is available from the Director of International Education, Rockwell Hall 205, where inquiries will be welcomed.

LATIN AMERICAN STUDIES PROGRAM*

Concentration in Elementary Education

<i>Course</i>	<i>Year</i>	<i>Credit Hours</i>
History 313—History of Latin America:	2nd, 1st semester	3
Colonial Era		
History 314—History of Latin America:	2nd, 2nd semester	3
National Era		
Geography 203 or 320—Geography of Middle or South America	2nd or 3rd, 1st semester	3
Anthro. 302 or 303—Ethnography of Middle or South America	3rd, 1st or 2nd semester	3
Language—Elementary Spanish or Portuguese or equivalent (2 years of high school language will fulfill this requirement)	1st, 1st & 2nd semester	6
Public Health—Public Health of Latin America or Twentieth Century Latin American Problems	4th, 1st or 2nd semester	3
Latin American Art, Music, or Literature	3rd, 2nd semester	3
		24

Liberal Arts Curriculum

Course	Year	Credit Hours
History 313—History of Latin America: Colonial Era	2nd, 1st semester	3
History 314—History of Latin America: The National Era	2nd, 2nd semester	3
Geography 203 or 302	2nd, 1st semester or 3rd, 2nd semester	3
Anthro. 302 or 303	3rd, 1st or 2nd semester	3
Latin American Art or Music	3rd, 1st semester	3
Latin American Literature (Spanish 405)	4th, 1st semester	3
20th Century Latin American Problems	4th, 1st or 2nd semester	3
Total		21

Plus fifteen semester hours of electives chosen from at least three of the following disciplines:

History	Ethnology
Geography	Archaeology
Art	Literature
Music	Science

Two years of high school Spanish or Portuguese are required. If a student cannot fulfill this requirement, he must take at least six semester hours of languages from the breadth requirements of the Liberal Arts Division.

LIBRARY FACILITIES

The book collection of over 110,000 volumes and 900 current periodicals is accessible on open shelves in the Edward H. Butler Library. The Reference Reading Room and the Reserve Book Room afford areas for study and cultural reading by individuals or groups. Recordings on musical and non-musical subjects are available for music appreciation, speech classes, and recreational listening. The microfilm editions of *The New York Times* and *The Buffalo Evening News* and a microprint collection of periodicals, out-of-print materials and doctoral dissertations, are available for reading with the necessary specialized equipment. A Vicomatic Copier, and a Microfilm Reader-Printer machine are used for reproducing important informational materials. Additional books and materials from the State Library at Albany are secured through inter-library loans. Special exhibits featuring topics of general interest to the college community are prepared by the College Exhibit Committee, the faculty and the librarians.

Students are informed as to the use of the library in the English courses 101-102. Through special arrangements, the upper-class groups and graduate students are given advanced information concerning the use of the library. Student teachers and participants are instructed in the use of the Laboratory of Instructional Materials.

The Laboratory of Instructional Materials provides a variety of materials of value to students including story books, textbooks, slides, records, filmstrips, pictures, maps, and posters.

SUMMER SESSION

In 1964 over 2,000 students continued their professional education by attending the Summer Session. All of the College facilities, as described in this bulletin, are available during the summer months.

A full complement of offerings, about two hundred courses, will be available for graduate and undergraduate students. The courses are chosen to meet the needs of students completing degree requirements in all areas.

Tuition for graduate students is \$20.00 a credit hour and \$13.50 a credit hour for undergraduate students. All students pay a State University fee of \$.85 a credit hour and a Student Activity Fee of \$2.00.

Undergraduate students who are in good standing at other colleges may attend the Summer Session on the recommendation of their Dean. Applications and course announcements can be obtained from the Director of Summer Session.

Art Education Division

Stanley A. Czurles, Director

Faculty: Andersen, Arnone, Baeumler, Bailey, O., Bauer, Bazemore, Belfer, Bice, Bode, Bolinsky, Brett, Brock, Burchfield, Case, Dakin, Darvishian, Davidson, Delius, Eckmair, Egan, English, H., Glover, Heavenrich, Heyman, Hill,* Horowitz, Hubler, Karcher, Kassman, Kern, Lindemann, Lofgren, Martin, Neil, Palmer, N., Rothlein, Sanderson, Scadron, Squeri, Steinzor, Swedlund, Tarantino, Tetkowski, Truesdale, Vullo, Weaver, E., Wilson, D., Wilson, R., Winebrenner, Wise, Wolfgruber.

Graduates of the Art Education Division receive the degree of Bachelor of Science and are certified to teach art in the elementary, junior, and senior high schools of New York State. They may hold position as teachers, supervisors, or consultants. A graduate curriculum leads to the degree of Master of Science.

General requirements for admission are explained in the catalog section on Admissions. No particular pattern of high school art courses is required for admission to the art program, but candidates are expected to have special interest and ability in art as revealed by superior grades in high school art courses, a portfolio of art work, and participation in other creative activities. The portfolio of work is to contain examples of work done under one's own initiative as well as work done in school for class and extra-curricular projects. Photographs may be used to show objects too large to be included, or of a temporary nature like stage settings. This portfolio is to be presented at the personal interview, and after admission, to instructors for program planning.

The art curriculum develops expressive and creative powers, an ability to teach, and a knowledge of the use of art in many aspects of living. It includes a broad program of general studies. Electives in the junior and senior years provide opportunity for individual specialization in the art field. The program takes the student into the Buffalo metropolitan community to participate in the solution of various problems such as those to be found in housing, communications, industry, recreation, and education. It encourages attendance at educational conferences where the student meets outstanding members of his profession and authorities on Art Education. A semester of full-time student teaching takes him into two schools in different parts of the state to teach under master teachers.

The Art Division staff is internationally known for its leadership in art education, and the professional art achievements of individual staff members.

A new building, Upton Hall, the largest of its kind in the world, contains specially designed equipment and new building features such as a materials resource library, one-way view walls for observing selected groups in action, full view windows from the halls into studios, and extensive display facilities to enrich learning through seeing as well as doing. Twenty-four studios provide for a wide variety of art activities including painting, photo-

tography, lithography, etching, sculpture, industrial design, theatre design, crafts, home planning and jewelry.

The nearby Albright-Knox Art Gallery with its permanent collection, and exhibits from other cities and countries affords first-hand opportunities to study original works of art. A new addition to its building houses one of the finest collections of contemporary art in this country. The Gallery's educational services and lecture series enable students to meet persons distinguished in art.

The cost of art supplies and books is about \$150.00 a year.

No special scholarships are available to entering Art Education students.

SEMESTER IN SIENA PROGRAM

Since September 1961, the State University College at Buffalo in cooperation with the University of Siena and the Istituto Statale d'Arte, has conducted a semester of study in Siena, Italy. The program is for selected Junior and Senior students, as part of the regular four year program. Students may live and study in this famous historic art center for a semester. Directed by a professor from this College, the classes are given by Italian professors and artists using both the English and Italian languages. During the Siena Semester, the students live with Italian families and take trips to Rome, Florence, Paris and other cities of art interest.

This program is limited to fully matriculated students of our College.

For further information, write to the Director, International Studies, State University College at Buffalo.

ADVANCED STANDING AND CERTIFICATION

Applicants for admission to advanced standing will be informed of the course requirements for the degree after their transcripts and examples of art work are evaluated. A college graduate wishing to complete certification requirements only, should first send transcripts to the Bureau of Certification, State Education Department, Albany, New York, for evaluation.

ACCELERATED PROGRAM

An accelerated program enables students to complete the regular four-year program by attending three ten-month academic years and four eight-week Summer Sessions. See page 89.

ART EDUCATION CURRICULUM

FIRST YEAR

Course Titles		First Semester		Second Semester	
		Class Hours	Credit Hours	Class Hours	Credit Hours
Art 101	Symposium	1	½	—	—
Art 102	Symposium	—	—	1	½
Art 103	Object Drawing	4	2	—	—
Art 104	Figure Drawing	—	—	4	2
Art 105	Introductory Design	4	2	—	—
Art 106	Exploratory Design	—	—	4	2
Art 107	Mechanical and Perspective Drawing	4	2	—	—
Art 108	Fundamentals of Photography	—	—	4	2
Art 109	Contemporary Art	2	2	—	—
Art 110	Design in Clay	—	—	4	2
Eng. 101	Effective Communication ..	3	3	—	—
Eng. 102	Effective Communication ..	—	—	3	3
Math. 103	Mathematics and Modern Life	2	2	—	—
S.S. 101	Man and His Institutions	3	3	—	—
S.S. 102	Man and His Institutions	—	—	3	3
Phil. 104	Ways of Knowing	—	—	3	3
Or. 100	Orientation	1	0	0	0
Total Hours		24	16½	26	17½

SECOND YEAR

Course Titles		First Semester		Second Semester	
		Class Hours	Credit Hours	Class Hours	Credit Hours
Art 201	Introductory Painting	4	2	—	—
Art 202	Exploratory Painting	—	—	4	2
Art 203	Life Drawing	4	2	—	—
Art 204	Introduction to Printmaking ..	—	—	4	2
Art 205	Design in Metal	4	2	—	—
Art 206	Design in Fibers	—	—	4	2
Art 207	Design in Wood	4	2	—	—
Art 208	Introduction to Sculpture	—	—	4	2
Art 209	Lettering and Typography ..	4	2	—	—
Art 210	Home Design	—	—	4	2
Art 211	History of Art	2	2	—	—
Art 212	History of Art	—	—	2	2
Ed. 101	Human Growth and Development	4	3	—	—
Ed. 102	Human Growth and Development	—	—	4	3
P.Ed. 100	Physical Education	1	1	1	1
Total Hours		27	16	27	16

THIRD YEAR—FIRST SEMESTER

Course Titles		Class Hours	Credit Hours
Art 301	Child Art	5	3
Art 302	Adolescent Art	5	3
Mus. 100	Listener's Orientation to Music	3	3
	Non-Art Elective or Required Eng. or Sci.	3	3
	Free Electives	8	4
Total Hours		24	16

THIRD YEAR—SECOND SEMESTER OR FOURTH YEAR—FIRST SEMESTER

Course Titles		Class Hours	Credit Hours
H.Ec. 201	Family Living	2	2
Eng. 301	Ideas of Man and His World in Literature	3	3
Sci. 203	Man and His Natural Environment	4	3
	Art Electives	12	6
	Non-Art Elective	3	3
Total Hours		24	17
or			
Art 303	Elementary Teaching and Seminar	15	7½
Art 304	Secondary Teaching and Seminar	15	7½
Total Hours		30	15

FOURTH YEAR—SECOND SEMESTER

Course Titles		Class Hours	Credit Hours
Eng. 302	Ideas of Man and His World in Literature	3	3
Sci. 204	Man and His Natural Environment	4	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
	Art Electives	12	6
	Non-Art Elective	3	3
Total Hours		25	18

Art Education Courses

ART 100—ESSENTIALS OF VISUAL ART

The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary culture; introductory creative-expressive experiences.

CLASSIFICATION: Required of Elementary Education freshmen

CREDIT: Three semester hours—three class hours

ART 101—SYMPOSIUM

A coordinated series of programs, discussions, and presentations involving guest faculty members, visiting authorities, and students; presenting various points of view on the nature and function of the arts, education in the arts, and related areas of human experience.

CLASSIFICATION: Required of Art Education freshmen

CREDIT: One-half semester hour—one class hour

ART 102—SYMPOSIUM

A continuation of the series of programs, discussions, and presentations in Art 101.

CLASSIFICATION: Required of Art Education freshmen

PREREQUISITE: Art 101

CREDIT: One-half semester hour—one class hour

ART 103—OBJECT DRAWING

Fundamentals of freehand drawing, based primarily on the study and representation of objects and nature forms, with problems of analysis, response, visualization, composition, and technical standards; contour drawing; indications of surface texture, form, tone, in various media.

CLASSIFICATION: Required of Art Education freshmen

CREDIT: Two semester hours—four class hours

ART 104—FIGURE DRAWING

Drawing from the draped and undraped figure, with an emphasis upon proportion, structure, gesture, movement, and compositional possibilities; contour and modeled drawings; memory drawings; long and short poses; elements of anatomy; use of various media.

CLASSIFICATION: Required of Art Education freshmen

PREREQUISITE: Art 103

CREDIT: Two semester hours—four class hours

ART 105—INTRODUCTORY DESIGN

Fundamentals of design, including logical and intuitive approaches, as applied to pure form and natural sources in two and three dimensions; color in design; the role of feeling, emotion, and intellectual control in developing individual solutions.

CLASSIFICATION: Required of Art Education freshmen

CREDIT: Two semester hours—four class hours

ART 106—EXPLORATORY DESIGN

A continuation of the fundamentals of design in Art 105, with an emphasis on developing personal statements in various media.

CLASSIFICATION: Required of Art Education freshmen

PREREQUISITE: Art 105

CREDIT: Two semester hours—four class hours

ART 107—MECHANICAL AND PERSPECTIVE DRAWING

Basic principles in drafting, including orthographic and isometric projections, and perspective drawing; as an aid in visualizing and constructing original products and in interpreting creative interior and exterior designs for the home, school, and community.

CLASSIFICATION: Required of Art Education freshmen

CREDIT: Two semester hours—four class hours

ART 108—FUNDAMENTALS OF PHOTOGRAPHY

Fundamentals of the photographic processes; use of equipment, film development and printing with an emphasis on experimental possibilities, aesthetic considerations, and the use of the camera in developing sensitive awareness of subject, composition, form, texture, and value.

CLASSIFICATION: Required of Art Education freshmen

CREDIT: Two semester hours—four class hours

ART 109—CONTEMPORARY ART

Major trends, artists, and works of our time, with an emphasis on historical, artistic, judgmental, and cultural meanings as they reflect the twentieth century and past civilizations; including painting, sculpture, architecture, and other areas.

CLASSIFICATION: Required of Art Education freshmen; elective for others

CREDIT: Two semester hours—two class hours

ART 110—DESIGN IN CLAY

An exploration of clay as a medium for expression, sketching, figure modeling, and functional object design, with some elementary exper-

ence in the preparation of clay bodies and glazes; basic methods in forming, glazing, and firing of ceramic sculpture and pottery.

CLASSIFICATION: Required of Art Education freshmen

CREDIT: Two semester hours—four class hours

ART 111—ESSENTIALS OF DESIGN

The nature of visual art; the creative process; aesthetic judgment; art's relation to contemporary culture; foundation experience in the development of understanding and skills in design in various materials with emphasis on organization and presentation of design concepts, principally in two dimensional media; exploration of elements of design as they relate to expressive, creative, and functional applications.

CLASSIFICATION: Required of Industrial Arts freshmen

CREDIT: Two semester hours—five class hours

ART 112—ESSENTIALS OF INDUSTRIAL ARTS DESIGN

Exploration of design problems in various materials related to Industrial Arts and the development of expressive, creative, and functional forms, primarily in three dimensions; refinement of skills in organization and presentation of design concepts; analysis and evaluation of historic and contemporary forms of design.

CLASSIFICATION: Required of Industrial Arts freshmen

PREREQUISITE: Art 111

CREDIT: Two semester hours—five class hours

ART 201—INTRODUCTORY PAINTING

An introduction to the methods and techniques of the painter, exploring color, line, form, texture, and compositional problems; using objects, nature, the figure, and abstract imagery as subject matter; employing various media such as watercolor, casein, gouache, tempera, and oil colors.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 202—EXPLORATORY PAINTING

A continuation of exploratory problems in painting, using a variety of methods, materials, and subjects; searching for personal symbolism and expression, increasing control of compositional matters, and a growing mastery of the media selected; related studies.

CLASSIFICATION: Required of Art Education sophomores

PREREQUISITE: Art 201

CREDIT: Two semester hours—four class hours

ART 203—LIFE DRAWING

A continuation of figure drawing, using the draped and undraped model, with a variety of media; figure portraits and group studies;

increasing emphasis on anatomy and composition; insertion and articulation of bones, joints, and muscles; related study of anatomy.

CLASSIFICATION: Required of Art Education sophomores

PREREQUISITE: Art 104

CREDIT: Two semester hours—four class hours

ART 204—INTRODUCTION TO PRINTMAKING

An introduction to basic techniques of printmaking, involving discussions and demonstrations of relief, intaglio, planographic, and serigraphic processes; with studio experience in one or more press-pulled graphic arts areas such as lithography, etching, and woodcutting.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 205—DESIGN IN METAL

Exploratory experiences in metalsmithing as a medium for sculptural expression and object design, utilizing the unique qualities of various metals and alloys; raising, forging, welding, soldering, riveting, casting, and other forming methods; surface treatments for metal.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 206—DESIGN IN FIBERS

An exploration of traditional and experimental techniques, using natural, synthetic, and created fibers in original textile design; weaving and related processes; selected experiences in creative stitchery, rug-hooking, resist dyeing, block printing, stencil printing, and other processes.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 207—DESIGN IN WOOD

Exploratory experiences in wood as a medium for sculptural expression and object design, stressing sensitivity to the unique qualities in various woods and the appropriate use of hand and simple power tools; finishing processes; discussions on technical and aesthetic problems.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 208—INTRODUCTION TO SCULPTURE

Sculpture as a means of individual expression; a general introduction to the theories and practices involved in the additive, subtractive, and constructive approaches to sculpture, with selected experiences using such materials as clay, plaster, wood, stone, and metal.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 209—LETTERING AND TYPOGRAPHY

A study of basic letter forms, with practice in the use of the brush, pen, and instrument, and related to problems of layout; creative design in lettering; elements of typography and the design of printed publications, with an introductory experience in the use of type.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 210—HOME DESIGN

The home as a unique design for personal and family living; the design and furnishing of the home as a functional, aesthetically-satisfying unit, suited to its location, and appropriate for its special purpose; redesigning old homes and interiors; related consideration of school design.

CLASSIFICATION: Required of Art Education sophomores

CREDIT: Two semester hours—four class hours

ART 211—HISTORY OF ART

The development of art from prehistoric times to the Renaissance, emphasizing the major styles, artists, and monuments of western art; the relation of sculpture, architecture, painting, and other expressions to living.

CLASSIFICATION: Required of Art Education sophomores; elective for other students

CREDIT: Two semester hours—two class hours

ART 212—HISTORY OF ART

The development of Art from the Renaissance to 1900, emphasizing the major styles, artists, and monuments of western art; the relation of sculpture, architecture, painting, and other expressions to living.

CLASSIFICATION: Required of Art Education sophomores; elective for others

PREREQUISITE: Art 211

CREDIT: Two semester hours—two class hours

ART 213—PHOTOGRAPHY

Photography as a communications art; the making of documentary, pictorial, and creative compositions in black-and-white, in color, and in combination with other communication media; exploration of photographic processes and their use in self-expression and educational activities.

CLASSIFICATION: Elective for all students except Art Education majors

CREDIT: Three semester hours—four class hours

ART 214—DRAWING

Drawing as used in lecturing and teaching; development of visual aids, object and arrangement planning; selection of drawing content and treatment according to individual fields of interest.

CLASSIFICATION: Elective for all students except Art Education majors
CREDIT: Three semester hours—four class hours

ART 215—ARTS IN LIVING

A study of contemporary and historic art forms as they apply to everyday living. An analysis of the individual significance and inter-relatedness of architecture, industrial design, the graphic arts, painting, sculpture, music and the theater arts. Participation in a variety of creative activities.

CLASSIFICATION: Required of Science majors; elective for others
CREDIT: Four semester hours—four class hours

ART 216—CREATIVE ART WORKSHOP

Activities and art materials suitable for the elementary grades; individual experiment in various media.

CLASSIFICATION: Elective for all students except Art Education majors
PREREQUISITE: Art 100 or 111 or 323
CREDIT: Three semester hours—four class hours

ART 217—WORKSHOP IN CRAFTS

Creative experiences in a variety of crafts such as leather, metal, ceramics, and jewelry; individual projects.

CLASSIFICATION: Elective for all students except Art Education majors
CREDIT: Three semester hours—four class hours

ART 300—ESSENTIALS OF ART

Art in human development. Art experiences toward a variety of objectives; important differences between adult and child art; children's drawing, coloring, and creative construction activities, including the exploratory, symbolic, realistic; style, proportion and color related to degree of importance as well as relationship to natural appearance, relationship of creative art activities to the intellectual and emotional growth of children.

CLASSIFICATION: Required of Elementary Education juniors 1964-1965
CREDIT: Two semester hours—three class hours

ART 301—CHILD ART

Children's intellectual, emotional, physical, perceptual, and creative growth; implications for developing art experiences and programs for children; observation and participation in organized activities with children.

CLASSIFICATION: Required of Art Education juniors
CREDIT: Three semester hours—five class hours, including two hours of supervised participation

ART 302—ADOLESCENT ART

Adolescents' intellectual, emotional, physical, perceptual, and creative growth; implications for developing art experiences and programs for adolescents; observation and participation in organized activities with adolescents.

CLASSIFICATION: Required of Art Education juniors
CREDIT: Three semester hours—five class hours, including two hours of supervised participation

ART 303—ELEMENTARY TEACHING AND SEMINAR

Supervised student teaching at assigned levels from kindergarten through sixth grade, in various types of schools and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher.

CLASSIFICATION: Required of Art Education majors; juniors or seniors
CREDIT: Seven semester hours—full-time, one-half semester

ART 304—SECONDARY TEACHING AND SEMINAR

Supervised student teaching at assigned levels from seventh grade through senior high school, in various types of schools and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher.

CLASSIFICATION: Required of Art Education majors; juniors or seniors
CREDIT: Eight semester hours—full-time, one-half semester

ART 313—DESIGN FOR THE INDIVIDUAL AND THE HOME

Use of color, texture, form, space and other aspects of design in dress, home and other phases of personal and community life.

CLASSIFICATION: Required of all Home Economics Education juniors
CREDIT: Three semester hours—four class hours

ART 315—INDUSTRIAL ARTS DESIGN

Critique, design and redesign; technical proficiency in aesthetic and functional aspect of design.

CLASSIFICATION: Required of all Industrial Arts Education juniors
PREREQUISITE: Art 111-112
CREDIT: Two semester hours—five class hours

ART 401—WATERCOLOR PAINTING

An introduction to the transparent watercolor medium as a form of pictorial representation and self-expression; exploration of the unique qualities of the medium and techniques employed; investigation of stylistic possibilities, compositional problems.

CLASSIFICATION: Elective of Art Education upperclassmen
PREREQUISITE: Art 202
CREDIT: Two semester hours—four class hours

ART 402—TEMPERA PAINTING

An introduction to opaque aqueous materials such as casein, gouache, and egg tempera as a form of self-expression and representation; exploration of the unique qualities of these media and techniques employed; investigation of stylistic possibilities, compositional problems.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 202

CREDIT: Two semester hours—four class hours

ART 403—ADVANCED STUDIO IN PAINTING

Advanced painting, with media, style, and content based on individual needs; personal preparation and exploration of paints, grounds; concentration on individually-selected area of development in painting.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 202, Art 401 or Art 402 desirable

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval

ART 404—ADVANCED STUDIO IN DRAWING

Advanced drawing, with media and content based on individual needs; exploration of various media; concentration on individually-selected area of development in drawing; use of model.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 203

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 405—FIGURE MODELING

Figure and portrait modeling as a basic sculptural discipline and means of expression: interpretation and portrayal of human form; practice in making armatures and building up with clay and plaster.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 208

CREDIT: Two semester hours—four class hours

ART 406—ADVANCED STUDIO IN SCULPTURE

Advanced sculpture, using a wide variety of materials and techniques; concentration on individually-selected area of development in sculpture based on personal interests and needs.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 208

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 407—RELIEF PROCESSES IN PRINTMAKING

An exploration of the relief process in the making of prints, including such possibilities as linoleum and wood blocks, wood engravings; emphasis upon personal expression and creative possibilities.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 204

CREDIT: Two semester hours—four class hours

ART 408—INTAGLIO PROCESSES IN PRINTMAKING

An exploration of the intaglio process in the making of prints, including such possibilities as etching, dry point, and engraving; emphasis upon personal expression and creative possibilities.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 204

CREDIT: Two semester hours—four class hours

ART 409—PLANOGRAPHIC PROCESSES IN PRINTMAKING

An exploration of the planographic processes in the making of prints, including such possibilities as the use of stone and metal in lithography, various media; emphasis upon personal expression.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 204

CREDIT: Two semester hours—four class hours

ART 410—SERIGRAPHIC PROCESSES IN PRINTMAKING

An exploration of the serigraphic processes in the making of prints, including such possibilities as silk screen and substitutes, with stencils of paper, film lacquer, tusche-glue, and other materials.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 204

CREDIT: Two semester hours—four class hours

ART 411—ADVANCED STUDIO IN PRINTMAKING

Advanced printmaking, using a wide variety of materials and techniques according to the needs and interests of the student; including

such possibilities as lithography, wood engraving, etching, and silk screen; experimental prints, color exploration, mixed media.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 204; Art 407, Art 408, Art 409, Art 410 desirable

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of the instructor, and scheduled studio hours.
May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 412—POTTERY MAKING

A study of ceramic materials and processes with an emphasis on pottery making; design and expression in ceramics; study of form and space, mass and volume in vessels; the effects of glaze, color, and texture, techniques of forming, glazing, and firing.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 110

CREDIT: Two semester hours—four class hours

ART 413—CERAMIC SCULPTURE

Exploration of clay as a plastic sculptural medium; basic methods of forming, glazing, and firing ceramic sculpture; relief, free standing, and moving sculpture; architectural sculpture; cast making for reproduction; consideration of form and space, design

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 110

CREDIT: Two semester hours—four class hours

ART 414—CERAMIC MATERIALS

A study of ceramic raw materials, their origin and properties; selection and preparation of clay bodies; glaze calculation and preparation; development of original and experimental glazes, test firings and applications.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 110

CREDIT: Two semester hours—four class hours

ART 415—ADVANCED STUDIO IN CERAMICS

Advanced study of design and expression through the clay medium based on the needs and interests of the student; continued exploration in clay bodies and glazes; individual concentration on the potter's wheel, slip casting, ceramic sculpture, and firing practice.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 110; Art 413 and Art 414 desirable

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 416—ADVANCED STUDIO IN WOOD DESIGN

The design and creation of a major project in wood, approached as a designer-craftsman; utilizing a range of techniques, hand, power, and machine tools as needed; accompanied by parallel studies selected by the student from such areas as archetypes, human engineering, and furniture; designers and their influences; aesthetic implications of mechanical processes.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 207

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 417—WEAVING PROCESSES IN TEXTILES

Advanced study and experience in textile fabrication for specific uses; designing for hand and machine processes in weaving; additional study in fibers; expressive and controlled design in woven fabrics; aesthetic considerations.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 206

CREDIT: Two semester hours—four class hours

ART 418—PRINTING PROCESSES IN TEXTILES

Advanced study and exploration of textile design for specific uses, with an emphasis on such printing techniques as silk screen and block printing on cloth; aesthetic and practical considerations in the design of printed textiles.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 206

CREDIT: Two semester hours—four class hours

ART 419—APPLIQUE PROCESSES IN TEXTILES

Advanced exploration in such applied textile techniques as creative stitchery and embroidery, appliquéd forms, knotting and hooking, and

combinations of these; for both utilitarian and expressive purposes; experience in the making of wall hangings, room dividers, special fabrics.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 206

CREDIT: Two semester hours—four class hours

ART 420—ADVANCED STUDIO IN TEXTILE DESIGN

Exploration of various design techniques on an advanced level; concentration in individually-selected projects or areas of textile design; weaving, printing, appliqué, and other traditional and experimental techniques according to student interest and need.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 206; Art 417, Art 418, Art 419 desirable

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 421—METALSMITHING

Advanced experience in metalsmithing as a continuation of the forming techniques introduced in Art 205, with the addition of others, including the possibility of metal spinning; concentration in metalworking areas of special interest to the student; enameling on metal.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 205

CREDIT: Two semester hours—four class hours

ART 422—ADVANCED STUDIO IN METALSMITHING

Advanced experiences in metalworking techniques and design, based on the needs, interests, and background of the student; individual projects in such areas as raising, welding, casting, spinning, and so on; enameling and other surface enrichment.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 205; Art 421 desirable

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 423—JEWELRY MAKING

Exploration of materials and processes in jewelry making, emphasizing creative design; stressing basic working techniques in the fabrica-

tion of jewelry from sheet and wire, sawing, shaping, hard soldering, and so on; introductory experiences in stone setting, gem polishing, combinations with exotic woods.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 205

CREDIT: Two semester hours—four class hours

ART 424—CAST JEWELRY

Exploration of materials and processes used in casting jewelry in silver and gold, including one-piece open-mold casting, and cuttlefish casting, as well as lost wax processes utilizing steam casting and centrifugal casting techniques; finishing procedures; design implications.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 205; Art 423 desirable

CREDIT: Two semester hours—four class hours

ART 425—GEM POLISHING

Lapidary techniques in sawing, grinding, sanding, and polishing semi-precious stones; drilling, tumbling; emphasis on cabochon and free-form shapes; hand as well as machine processes; acquaintance with various kinds of gem stones, degrees of hardness, and suitability for various uses.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 423

CREDIT: Two semester hours—four class hours

ART 426—ADVANCED STUDIO IN JEWELRY

Advanced exploration of materials and processes used in jewelry making, with increasing emphasis on design aspects; concentration on individually-selected projects and areas of special interest; possibilities for individual experimentation and the use of unusual techniques.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 423; Art 424 and Art 425 desirable

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 427—ADVERTISING DESIGN

Principles of advertising design as communication, motivation, and visual persuasion; problems in advertising and publication design; illustration media and techniques; topographic design and reproduc-

tion processes; preparation of material for various methods of reproduction.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 209

CREDIT: Two semester hours—four class hours

ART 428—GRAPHIC DESIGN

Advanced problems in advertising, publication, display, and packaging design; materials, techniques and processes used in the preparation of visuals, design presentations, and mechanicals; stress on individual solutions to problems encountered by the graphic designer.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 427

CREDIT: Two semester hours—four class hours

ART 429—ILLUSTRATION

Advanced problems in advertising, editorial, and technical illustration, in black and white and color, and carried out in various media; color separation; photo-retouching; photo-mechanical techniques; a study of various techniques used in illustration today; development of personal style.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 427

CREDIT: Two semester hours—four class hours

ART 430—WORKSHOP IN GRAPHIC ARTS PRODUCTION

A cooperative program of practical problems in the design and production of printed matter, including typographic design, paper selection, composition, camera and plate-making operations, letterpress and photo-lithographic processes.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Open to a limited group of Industrial Arts and Art Education students by permission of the instructors

ART 431—CREATIVE PHOTOGRAPHY

Photography as an art medium and as an educational tool; creative and expressive use of photographic equipment, material and process; technical camera and dark room processes and their application in pictorial composition and expression; the creative camera as a teaching asset.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 108

CREDIT: Two semester hours—four class hours

ART 432—ADVANCED STUDIO IN PHOTOGRAPHY

Advanced photographic techniques with a continuing emphasis on sensitive individual expression in the medium; the application of photographic processes to the needs of the student, future teacher and artist; concentration on individually-selected areas of special interest.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 431

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 433—PRODUCT DESIGN

Design for individual and mass production of useful products, considering the qualities of the natural or man-made material utilized and the processes to be used in producing it, as well as functional and aesthetic problems; development of designs through sketches, scale drawings, and prototypes.

CLASSIFICATION: Elective for Art Education and Industrial Arts upperclassmen

PREREQUISITE: Art 107, or 315

CREDIT: Two semester hours—four class hours

ART 434—ADVANCED STUDIO IN PRODUCT DESIGN

Advanced study of product design, custom design for specific uses and settings; experiments with recently-developed materials as well as established ones; individual projects in such areas as tools, housewares, appliances, and so on; emphasis on ingenuity in the design solution.

CLASSIFICATION: Elective for Art Education and Industrial Arts upperclassmen

PREREQUISITE: Art 433

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: Requires approval of instructor, and scheduled studio hours. May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval.

ART 435—EXHIBITION TECHNIQUES

Problems in the organization of school and community art exhibitions; preliminary planning, arrangements for loans; transportation, insurance, protection arrangements; designing, handling, lighting, and related problems; school room and hall displays; developing display units; experience with college exhibits.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—four class hours

ART 436—INTERIOR DESIGN

Design problems related to the interiors of homes and public buildings; selection and arrangement of furniture and accessories; built-in and custom-made items; the making of sketches, floor plans, and models as needed; visits to shops and manufacturers; practical design solutions for existing situations.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 210

CREDIT: Two semester hours—four class hours

ART 437—COMMUNITY DESIGN

The design of the modern community related to problems of residential areas, the needs of business and industry, the location of public buildings and schools, recreation needs, transportation problems; the green-belt concept; redevelopment problems of the city; research and suggested solutions for existing problems.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—four class hours

ART 438—CREATIVE LEATHERWORK

Design applied to the making of products in leather, approached from the viewpoint of the contemporary designer-craftsman; the adaptation of traditional techniques and invention of new solutions in construction methods; leather in combination with other materials; research and experiment in the area.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—four class hours

ART 439—RESEARCH IN ART EDUCATION

Readings, reports, and discussion of basic and current research activity in art education; exploration of simple experimental techniques, with students developing and carrying out aspects of research as a part of class requirement; research on specific local situations as well as universal professional problems.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—two class hours

SPECIAL NOTE: May be repeated or taken simultaneously for a maximum of six semester hours with administrative approval

ART 440—ART PROGRAMS FOR ADULTS

Special psychological and creative problems of the adult; community programs in art and art education sponsored by the schools and other agencies; cultural and leisure-time needs of adults; government programs in the arts; developing local art programs, including the crafts.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—two class hours

ART 441—ORIENTAL ART

The major styles, artists, and monuments of Islam, India, China, and Japan; oriental architecture, painting, sculpture, prints; textiles, pottery, costume, jewelry, gardens, with related reference to music, poetry, dancing, and the theater.

CLASSIFICATION: Required of art majors in liberal arts; elective for others

CREDIT: Three semester hours—three class hours

ART 442—SCENOGRAPHY

Design for the stage; philosophy, theory, practices in design for the dramatic arts; the relationship of scenery, costume, makeup, lighting, and allied stage crafts; function of the designer; development of theater design problems from the design concept to working drawings and the making of models.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—four class hours

ART 443—ADVANCED SCENOGRAPHY

Advanced theater design; how the different elements of the stage function in various scenes; individualized study and research in the poetry of the stage setting; practical work in the design, construction, and painting of stage settings related to actual performances.

CLASSIFICATION: Elective for Art Education upperclassmen

PREREQUISITE: Art 442, or special permission

CREDIT: Two semester hours—four class hours

SPECIAL NOTE: May be repeated or taken simultaneously for a maximum of four semester hours with administrative approval

ART 444—TECHNICAL PLAY PRODUCTION

Introduction to the various visual aspects of theater production; technical organization, stage design, stage mechanics, lighting, costumes, makeup; play production problems for proscenium, arena, and flexible staging; practical experience in technical production, including crew work.

CLASSIFICATION: Elective for Art Education upperclassmen

CREDIT: Two semester hours—four class hours

ART 445—ADVANCED TECHNICAL PRODUCTION

Advanced study and experience in technical play production introduced in Art 444; leadership and responsibility in one or several areas of technical production for plays in rehearsal and during performances; special projects and research in one or several areas of technical direction.

CLASSIFICATION: Elective for Art Education upperclassmen
PREREQUISITE: Art 444, or special permission
CREDIT: Two semester hours—four class hours
SPECIAL NOTE: May be repeated or taken simultaneously for a maximum of four semester hours with administrative approval

ART 446—DESIGN WITH LIGHT

Color light as a design medium in personal and group expression; theory, processes, and techniques in the use of light as an art form and as an aspect in design; two-dimensional expression in projection, three-dimensional expression in space; various uses of light from simple display to the theater.

CLASSIFICATION: Elective for Art Education upperclassmen
CREDIT: Two semester hours—four class hours

ART 447—STAGE LIGHTING

Theory and practice in lighting the stage; the creation of special effects and illusions; the metaphor of color light; stage lighting equipment and electrical control; developing light plots for various kinds of productions; practical experience in plays under production, including required crew work.

CLASSIFICATION: Elective for Art Education upperclassmen
PREREQUISITE: Art 446, or special permission
CREDIT: Two semester hours—four class hours

ART 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen
CREDIT: One to six semester hours
SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

Arts and Sciences Division

Walter B. Greenwood, Director

Faculty members are listed under each department.

The Division of Arts and Sciences is comprised of the departments of English, Foreign Language, Geography, Health, Physical Education and Recreation, Philosophy, Mathematics, Music, Science, and Social Studies. The courses offered by each of these departments are listed and described under departmental headings.

The Division of Arts and Sciences provides many required courses for the various teacher education programs. In addition, the Division offers a variety of elective courses that may be selected by students in all Divisions.

Elementary Education students will select courses to complete their area of Liberal Arts concentration from offerings by the English, Foreign Language, Mathematics, Science or Social Studies Departments.

The Departments of English, Foreign Language, Science, Social Studies and Mathematics provide programs of study for the certification of secondary school teachers.

The Division of Arts and Sciences also offers a Liberal Arts curriculum leading to the B.A. degree. Area majors are available in Social Studies, the Humanities and the Arts; Departmental majors in Arts, English, History, Language, Mathematics, and Music. An interdivisional major may be elected in Latin American Studies.

THE LIBERAL ARTS PROGRAM

The College has established a Liberal Arts program leading to the Bachelor of Arts degree to provide wider opportunities in higher education for the youth of the state. Freshmen will be admitted to this program (which does not provide teacher certification) in September of 1965.

Requirements for graduation with a Bachelor of Arts degree are: 124 semester-hour credits of college study.

Competence in a foreign language equivalent to two years of college-level study. This requirement may be met by high school courses, college courses, or independent study.

During his four years of College work the student must include:

- (1) 4 credits in physical education
- (2) 15 credits in humanities courses (language, literature, philosophy, etc.).
- (3) 15 credits in science-mathematics courses.
- (4) 15 credits in social science courses (anthropology, history, economics, geography, etc.).

(5) 15 credits in fine arts courses (music, painting, visual arts, dance, speech arts, etc.).

(6) Area majors are available in Social Studies, the Humanities and the Arts; Departmental majors in Arts, English, History, Language, Mathematics, and Music. An interdivisional major may be elected in Latin American Studies. The requirement for the major varies between 24 and 40 semester hours.

(7) Elective courses to complete the 124 hour requirement.

ENGLISH DEPARTMENT

J. Stephen Sherwin, Chairman

Faculty: *Barre, Blanch, Bradford, Chambless, Donnelly, Drew, Fried, Ganey, Goldsmith, Gragg,* Greenwood, Gronewold, Hale, Herrin, Herthel, Hoffman, Jakiel, Kahn, Klomp, LaHood, Mayes, McManus, Norenberg, Piquette, Pitts, Rottenberg, Savage, Schuck, Sustakoski, Taylor, Thomas, Thompson, Trueblood, Vucinich, Waxler, Wicke, Witzleben, Wyld.*

ENG...101—EFFECTIVE COMMUNICATION

Materials and purposes of effective communication; symbolic nature of communication devices; mastery of the tools (spelling, enunciation, punctuation, vocal inflection, grammar, pronunciation, interpretation of visual and aural media); analysis of techniques used to evaluate mass media.

CLASSIFICATION: Required of all freshmen

CREDIT: Three semester hours—three class hours

ENG. 102—EFFECTIVE COMMUNICATION

Materials and purposes of effective communication; symbolic nature of communication devices; mastery of the tools (spelling, enunciation, punctuation, vocal inflection, grammar, pronunciation, interpretation of visual and aural media); analysis of techniques used to evaluate mass media.

CLASSIFICATION: Required of all freshmen

PREREQUISITE: Eng. 101

CREDIT: Three semester hours—three class hours

ENG. 103—ENGLISH LITERATURE

English prose and poetry from the beginnings through the nineteenth century.

CLASSIFICATION: Required of Secondary English freshmen and Secondary Social Studies sophomores; elective for others

PREREQUISITE: Eng. 101-102 except for Secondary English freshmen

CREDIT: Three semester hours—three class hours

* On leave, 1964-65

ENG. 104—AMERICAN LITERATURE

American prose and poetry from the beginnings through the nineteenth century.

CLASSIFICATION: Required of Secondary English freshmen and Secondary Social Studies students; elective for others

PREREQUISITE: Eng. 101-102 except for Secondary English freshmen

CREDIT: Three semester hours—three class hours

ENG. 200—VOICE AND DICTION

Presentation and practice of vocal skills; applied phonetics; fundamental speaking experiences.

CLASSIFICATION: Required of Secondary English students with minor in speech; elective for others

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 201—ADVANCED COMPOSITION

Usage and the art of writing; practice with long and short papers; readings in contemporary prose.

CLASSIFICATION: Required of Secondary English sophomores; elective for others

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 202—PUBLIC SPEAKING

Organization, delivery, and evaluation of the public speech.

CLASSIFICATION: Required of Secondary English sophomores; elective for others

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 203—MODERN DRAMA

Chief modern dramatists of Continental Europe, England, and America from Ibsen to the present time.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 205—WORLD LITERATURE

Literary masterpieces of Western civilization: translations from the Greek, Latin, French, German, Italian, and Russian.

CLASSIFICATION: Required of Secondary English sophomores; elective for others

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 206—TYPES OF BRITISH AND AMERICAN LITERATURE

Poems and plays; readings, analysis and criticism; history.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 207—PLAY PRODUCTION

Play selection and analysis, casting, rehearsals, student productions.

CLASSIFICATION: Required of Secondary English students with minor in speech; elective for others

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 209—PUBLIC DISCUSSION

Group discussion, including debate; parliamentary procedure; panel presentations; interview techniques; oral reports.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 210—CHILDREN'S LITERATURE

Types of children's literature; folklore, informative material, fiction, biography, and poetry; principles of book selection; illustration, format; reading interests of children; story telling; bibliography.

CLASSIFICATION: Required of Elementary Education sophomores

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 211—MODERN BRITISH AND AMERICAN POETRY

Major poets and significant trends in poetry from 1912 to the present time.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 212—ROMANTIC MOVEMENT IN AMERICAN LITERATURE

Nature of Romanticism; English and Continental European backgrounds; nineteenth century American writers including the Transcendentalists, Hawthorne, the Cambridge Poets, Melville, and Whitman.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 104, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 213—SECONDARY SCHOOL LITERATURE

Literature appropriate to grades 7-12; fiction, biography, informative material, folklore, poetry, drama; criteria of book selection; bibliography.

CLASSIFICATION: Required of Secondary English sophomores

PREREQUISITE: Eng. 103, 104

CREDIT: Three semester hours—three class hours

ENG. 214—WORLD LITERATURE

A continuation of World Literature.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 205, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 216—RADIO AND TELEVISION IN EDUCATION

Broadcasting and its history; program evaluation; recordings; radio and television in the classroom; tours of broadcasting facilities; research paper.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 218—CREATIVE DRAMATICS

History, philosophy, methods, and materials of informal playmaking with children; observation and participation.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 219—SPEECH ACTIVITIES IN THE ELEMENTARY SCHOOL

Speech as an integrative and developmental activity of elementary school children; conversation; story telling, word games, interviews, creative dramatics.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 220—CREATIVE WRITING

Individual writing projects to suit interests and abilities of students.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 301—IDEAS OF MAN AND HIS WORLD IN LITERATURE

Development of man's ideas as seen in writings of the past and present in English and in translations from other languages; literary treatment of more specific ideas such as love, evil, progress, heroism, God, man, external environment, and society.

CLASSIFICATION: Required of all students according to divisional curricula

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 302—IDEAS OF MAN AND HIS WORLD IN LITERATURE

Development of man's ideas as seen in writings of the past and present in English and in translations from other languages; literary treatment of more specific ideas such as love, evil, progress, heroism, God, man, external environment, and society.

CLASSIFICATION: Required of all students according to divisional curricula

PREREQUISITE: Eng. 101, 102, and 301

CREDIT: Three semester hours—three class hours

ENG. 304—SURVEY OF DRAMA

Representative playwrights of Western European culture: Sophocles, Plautus, Jonson, Moliere, de Vega, Sheridan, Chekhov, Ibsen, Shaw, and O'Neill.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 205, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 305—SHORT WRITINGS IN THE FAMILIAR STYLE

Informal writing of Beerbohm, Leacock, Thurber, E. B. White, and others.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 306—SECONDARY SCHOOL SPEECH ACTIVITIES

Informative talks; individual and choral interpretation; group discussion; parliamentary procedure.

CLASSIFICATION: Required of Secondary English juniors

PREREQUISITE: Eng. 101-102, 202

CREDIT: Three semester hours—three class hours

ENG. 307—ROMANTIC MOVEMENT IN ENGLISH LITERATURE

Romantic prose and poetry: Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the period.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 308—SHORT STORY

Development of the short story; Hawthorne, Poe, Bierce, Steele, Glaspell, Lardner, O. Henry, Hemingway, and others.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 311—TYPES OF BRITISH AND AMERICAN LITERATURE

Essays, biographies, and fiction; readings, analysis and criticism; history.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 312—CONTEMPORARY LITERATURE

British and American literature of the twentieth century; poetry, fiction, drama.

CLASSIFICATION: Required of Secondary English students; elective for others

PREREQUISITE: Eng. 103, 104, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 315—SHAKESPEARE

Representative comedies and tragedies.

CLASSIFICATION: Required of Secondary English students; elective for others

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 316—SHAKESPEARE

A similar study of another group of plays.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

ENG. 320—ORAL INTERPRETATION OF LITERATURE

Oral reading of prose, poetry, and drama; selection and arrangement of material for formal and informal audiences.

CLASSIFICATION: Required of Secondary English students; elective for others

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 325—JOURNALISM

News, feature, and editorial writing; copy reading; makeup; advertising; public relations; elementary school journalism.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 101-102

CREDIT: Three semester hours—three class hours

ENG. 326—ACTING: THEORY AND PRACTICE

Tutorial study of history, theory, and art of acting; readings on techniques of acting; participation in current college productions.

CLASSIFICATION: Elective

PREREQUISITE: Previous participation in college productions

CREDIT: Three semester hours—class hours by arrangement

ENG. 401—LITERATURE OF THE BIBLE

Selected writings of the Old and New Testaments studied as literature; Biblical poetry and prose; influence of Bible translations on the English language.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 403—WORLD NOVEL

Major figures in the development of the novel during the past three centuries: Fielding, Balzac, Flaubert, Dostoevski, Tolstoi, the Brontes, Hardy, Hawthorne, and James.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 205, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 404—AMERICAN NOVEL BEFORE 1900

Cooper, Hawthorne, Clemens, James, and Howells.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 104, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 405—CHAUCER AND HIS AGE

Representative works of Chaucer; supplemental readings in the early drama, romance, and popular ballad.

CLASSIFICATION: Elective for all students

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 406—ENGLISH NOVEL

Great English novels of the nineteenth century as art and as a manifestation of social interests.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 407—MODERN NOVEL

Great English and American novels of the twentieth century; their artistic and social significance.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 104, 301, 302, or 312

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 409—MILTON

Prose and poetry of Milton, with emphasis on *Paradise Lost*; the background of Milton's writings.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 411—SEVENTEENTH CENTURY POETRY

Lyric and dramatic poetry: Shakespeare, Donne, Herrick, Jonson, Milton, and others.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 103, 301, or 302

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ENG. 413—SEMINAR—TOUR IN AMERICAN LITERATURE

Study of major American writers before 1900, including a tour of locales associated with their lives and work.

Study, four weeks; tour, two weeks.

CLASSIFICATION: Elective

PREREQUISITE: Eng. 104 or equivalent

CREDIT: Three semester hours

SPECIAL NOTE: May be elected by graduate students

ENG. 414—REALISM IN AMERICAN LITERATURE

Realistic writers of the late nineteenth century: Howells, James, Clemens, S. Crane, Norris, and others.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 104, 301, or 302
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

ENG. 415—PHILOSOPHY IN LITERATURE

Major philosophical viewpoints in general literature; literary masterpieces with strong philosophic import.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 103, 104, 205, 301, or 302
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

ENG. 416—STUDY-TOUR OF WESTERN EUROPE

Six-weeks study-tour including Holland, Germany, Austria, Italy, Switzerland, and France.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 301, 302, 214, 304, or 403, or equivalent
CREDIT: Eight semester hours
SPECIAL NOTE: May be elected by graduate students

ENG. 422—VICTORIAN POETRY

Tennyson, Browning, Arnold and others; social, political, and intellectual background of the times.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 103, 301, or 302
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

ENG. 423—VICTORIAN PROSE

Major Victorian essayists with reference to the intellectual background of nineteenth century England: Carlyle, Newman, Macaulay, Mill, Ruskin, Arnold, Huxley, and Pater.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 103, 301, or 302
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

ENG. 426—EIGHTEENTH CENTURY ENGLISH LITERATURE

Poetry, essay, novel, and drama of the eighteenth century.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 103, 301, or 302
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

ENG. 427—FOUNDATIONS OF LANGUAGE

Origin of language, language families and their relationships, alphabets and the history of writing, word formation, changes in the form and meaning of words, and the scientific study of language.

CLASSIFICATION: Elective
PREREQUISITE: Eng. 101-102, 201
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students who may not then elect Eng. 600

ENG. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen
CREDIT: One to six semester hours
SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

FOREIGN LANGUAGE DEPARTMENT

Alfred W. Becker, Chairman

Faculty: *Crane, Dacey,* Enea, Mendoza, Osborn, Sanfilippo, Smith.*

All courses in the department are open as electives to qualified students of all divisions.

Students of the Elementary Education Division who concentrate in a modern language to the extent of twenty-four semester hours are qualified to teach the language in the elementary grades and in the early secondary grades, grades seven through nine. These students should elect in their junior year Foreign Language 300, Foreign Language in the Elementary Grades. They will have a participation experience in a classroom where the language is being taught and will teach the language under supervision for half a semester.

Students entering the program for teachers of Foreign Languages in the Secondary School should present at least two years of high school preparation in the language of their choice. Ordinarily, one year of high school language preparation will be accepted as equivalent to one semester of college study. To fulfill the requirements of the Secondary School Foreign Language program students must successfully complete 30 semester hours in French or Spanish (at least 6 of which are elective), 24 semester hours in Professional Education and 50 hours in General Education. A sample curriculum for the Foreign Language major will be found on page 250 of this catalog.

Language laboratory facilities are available for those students desiring practice in addition to that required in the course listings.

* On leave, 1964-65.

FOREIGN LANGUAGE

F.L. 300—FOREIGN LANGUAGE IN THE ELEMENTARY GRADES

The place of modern foreign language in the elementary school curriculum; how a child learns a foreign language; teaching aids and materials; observation of foreign language classes in the elementary school; preparation of sample lessons.

CLASSIFICATION: Elective

PREREQUISITE: Ed. 151, 152, 201, 202; and twelve hours of French or Spanish

CREDIT: Two semester hours—two class hours

F.L. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

FRENCH

FR. 101—ELEMENTARY FRENCH

Fundamentals of the French language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no previous knowledge of French.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

FR. 102—ELEMENTARY FRENCH

Continuation of Fr. 101, with work on a somewhat higher level of difficulty. For students who have completed Fr. 101 or the equivalent.

CLASSIFICATION: Elective

PREREQUISITE: Fr. 101

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

FR. 201—INTERMEDIATE FRENCH

Review of the work of Fr. 101-102 and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: At least two years of high school French or completion of French 101-102

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

FR. 202—INTERMEDIATE FRENCH

Continuation of Fr. 201, on a somewhat higher level of difficulty.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 201 or the equivalent

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

FR. 301—FRENCH COMPOSITION AND CONVERSATION

Intensive practice in speaking and writing French effectively.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 201-202 or the equivalent

CREDIT: Three semester hours—three class hours

FR. 302—FRENCH COMPOSITION AND CONVERSATION

Intensive practice in speaking and writing French effectively, on a somewhat higher level of difficulty than Fr. 301.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 301 or permission of instructor

CREDIT: Three semester hours—three class hours

FR. 303—CLASSICAL FRENCH DRAMA

Reading of the major plays of Corneille, Molière, and Racine and of other representative dramatists.

CLASSIFICATION: Elective

PREREQUISITE: Fr. 201-202

CREDIT: Three semester hours—three class hours

FR. 304—NINETEENTH CENTURY FRENCH DRAMA

Reading and discussion of plays which illustrate Romanticism, Realism, and Symbolism in nineteenth century French drama.

CLASSIFICATION: Elective

PREREQUISITE: Fr. 201-202

CREDIT: Three semester hours—three class hours

FR. 306—FRENCH CIVILIZATION

Contributions of France to present-day civilization; historical development of French culture; chief aspects of contemporary French life.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 201-202

CREDIT: Three semester hours—three class hours

FR. 307—HISTORY OF FRENCH LITERATURE

Chronological and artistic development of French literature from the beginning up to the eighteenth century. Reading and discussion of representative selections from the major authors.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 201-202

CREDIT: Three semester hours—three class hours

FR. 308—HISTORY OF FRENCH LITERATURE

Chronological and artistic development of French literature in the nineteenth and twentieth centuries. Reading and discussion of representative selections from the major authors.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 201-202

CREDIT: Three semester hours—three class hours

FR. 401—CONTEMPORARY FRENCH LITERATURE

Chief literary trends and major authors of the last half century.

CLASSIFICATION: Elective

PREREQUISITE: Fr. 307-308

CREDIT: Three semester hours—three class hours

FR. 403—BACKGROUNDS OF MODERN FRENCH

Systematic study of major developments in French from Vulgar Latin to the present time, with short readings in French of various periods. Particular attention will be paid to description of the major structural features of the contemporary language.

CLASSIFICATION: Elective; required for Secondary French majors

PREREQUISITE: Fr. 301-302 and 307-308

CREDIT: Three semester hours—three class hours

FR. 404—FRENCH NOVEL

Reading of representative French novels from the seventeenth through the nineteenth century.

CLASSIFICATION: Elective

PREREQUISITE: Fr. 307-308

CREDIT: Three semester hours—three class hours

GERMAN

GERM. 101—ELEMENTARY GERMAN

Fundamentals of the German language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no previous knowledge of German.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

GERM. 102—ELEMENTARY GERMAN

Continuation of GERM. 101, with work on a somewhat higher level of difficulty. For students who have completed GERM. 101 or the equivalent.

CLASSIFICATION: Elective

PREREQUISITE: GERM. 101

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

GERM. 201—INTERMEDIATE GERMAN

Review of the work of GERM. 101-102, and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language. Reading of introductory selections from German literature.

CLASSIFICATION: Elective

PREREQUISITE: At least two years of high school German or completion of GERM. 101-102

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

GERM. 202—INTERMEDIATE GERMAN

Continuation of GERM. 201, on a somewhat higher level of difficulty.

CLASSIFICATION: Elective

PREREQUISITE: GERM. 201 or the equivalent

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

GERM. 301—GERMAN COMPOSITION AND CONVERSATION

A systematic approach to the writing and speaking of German in order to facilitate comprehension and fluent self-expression.

CLASSIFICATION: Elective

PREREQUISITE: GERM. 201-202 or the equivalent

CREDIT: Three semester hours—three class hours

GERM. 302—GERMAN COMPOSITION AND CONVERSATION

Continuation of Germ. 301, on a somewhat higher level of difficulty.

CLASSIFICATION: Elective

PREREQUISITE: Germ. 301 or permission of instructor

CREDIT: Three semester hours—three class hours

GERM. 306—GERMAN CIVILIZATION

Study of the growth of German civilization, with emphasis on the artistic and intellectual contributions to the Western world.

CLASSIFICATION: Elective

PREREQUISITE: Germ. 201-202

CREDIT: Three semester hours—three class hours

GERM. 307—HISTORY OF GERMAN LITERATURE

Chronological study of German literature from the Middle Ages through the eighteenth century. Readings of representative selections from major authors.

CLASSIFICATION: Elective

PREREQUISITE: Germ. 201-202

CREDIT: Three semester hours—three class hours

GERM. 308—HISTORY OF GERMAN LITERATURE

Continuation of Germ. 307. Reading of representative selections from the major authors of the Classical period and the nineteenth and twentieth centuries.

CLASSIFICATION: Elective

PREREQUISITE: Germ. 201-202

CREDIT: Three semester hours—three class hours

ITALIAN

ITAL. 101—ELEMENTARY ITALIAN

Fundamentals of the Italian language, with particular emphasis on the spoken language. Reading and written exercises of gradually increasing difficulty. For students with no previous knowledge of Italian.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

ITAL. 102—ELEMENTARY ITALIAN

Continuation of Ital. 101, with work on a somewhat higher level of difficulty. For students who have completed Ital. 101 or the equivalent.

CLASSIFICATION: Elective

PREREQUISITE: Ital. 101

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

ITAL. 201—INTERMEDIATE ITALIAN

Review of the work of Ital. 101-102, and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language.

CLASSIFICATION: Elective

PREREQUISITE: At least two years of high school Italian or completion of Ital. 101-102

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

LATIN

LAT. 101—ELEMENTARY LATIN

Fundamentals of the Latin language. Essentials of Latin grammar; reading of simple prose selections; the Latin element in the vocabulary of English and the modern languages.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

LAT. 102—ELEMENTARY LATIN

Fundamentals of the Latin language. Essentials of Latin grammar; reading of simple prose selections; the Latin element in the vocabulary of English and the modern languages.

CLASSIFICATION: Elective

PREREQUISITE: Lat. 101

CREDIT: Three semester hours—three class hours

LAT. 201—LATIN PROSE AND POETRY

Reading from such prose writers as Aulus Gellius, Nepos, Sallust, or Livy and such poets as Virgil, Catullus, Ovid and Martial; grammar review and vocabulary study; principles of Latin meter.

CLASSIFICATION: Elective

PREREQUISITE: At least two years of high school Latin

CREDIT: Three semester hours—three class hours

LAT. 202—LATIN PROSE AND POETRY

Reading from such prose writers as Aulus Gellius, Nepos, Sallust, or Livy and such poets as Virgil, Catullus, Ovid and Martial; grammar review and vocabulary study; principles of Latin meter.

CLASSIFICATION: Elective

PREREQUISITE: Lat. 201

CREDIT: Three semester hours—three class hours

LAT. 301—SILVER AGE PROSE

Reading of selections from representative authors of the post Augustan period.

CLASSIFICATION: Elective

PREREQUISITE: Lat. 201 and 202

CREDIT: Three semester hours—three class hours

LAT. 305—LATIN DRAMA

Reading of representative comedies of Plautus and Terence. Studies in the technique of the Roman theater.

CLASSIFICATION: Elective

PREREQUISITE: Lat. 201 and 202

CREDIT: Three semester hours—three class hours

RUSSIAN

RUSS. 101—ELEMENTARY RUSSIAN

Fundamentals of the Russian language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. Intensive use of language laboratory. For students with no previous knowledge of Russian.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

RUSS. 102—ELEMENTARY RUSSIAN

Continuation of Russ. 101, with work on a somewhat higher level of difficulty. For students who have completed Russ. 101 or the equivalent.

CLASSIFICATION: Elective

PREREQUISITE: Russ. 101

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

SPANISH

SPAN. 101—ELEMENTARY SPANISH

Fundamentals of the Spanish language, with particular emphasis on the spoken language. Reading and writing exercises of gradually increasing difficulty. For students with no previous knowledge of Spanish.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

SPAN. 102—ELEMENTARY SPANISH

Continuation of Span. 101, with work on a somewhat higher level of difficulty. For students who have completed Span. 101 or the equivalent.

CLASSIFICATION: Elective

PREREQUISITE: Span. 101

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

SPAN. 201—INTERMEDIATE SPANISH

Review of the work of Span. 101-102 and further development of speaking, reading, and writing ability, with continuing emphasis on the use and comprehension of the spoken language.

CLASSIFICATION: Elective; required for Secondary Spanish majors

PREREQUISITE: At least two years of high school Spanish or completion of Span. 101-102

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

SPAN. 202—INTERMEDIATE SPANISH

Continuation of Span. 201, on a somewhat higher level of difficulty.

CLASSIFICATION: Elective, required for Secondary Spanish majors

PREREQUISITE: Span. 201 or the equivalent

CREDIT: Three semester hours—three class hours, with a minimum of one hour per week in the language laboratory

SPAN. 301—SPANISH COMPOSITION AND CONVERSATION

Exercises to facilitate comprehension and fluent self-expression, with particular emphasis on the spoken language and accuracy of written expression.

CLASSIFICATION: Elective
PREREQUISITE: Span. 201-202
CREDIT: Three semester hours—three class hours

SPAN. 302—SPANISH COMPOSITION AND CONVERSATION

Intensive practice in speaking and writing Spanish effectively on a somewhat higher level of difficulty than Span. 301.

CLASSIFICATION: Elective; required for Secondary Spanish majors
PREREQUISITE: Span. 301 or permission of instructor
CREDIT: Three semester hours—three class hours

SPAN. 303—MODERN SPANISH MASTERPIECES

Representative genres of recent Spanish literature; the novel, drama, literary criticism and modern poetry.

CLASSIFICATION: Elective
PREREQUISITE: Span. 201-202
CREDIT: Three semester hours—three class hours

SPAN. 306—HISPANIC CIVILIZATION

A survey of Hispanic civilization from its beginnings in the Iberian Peninsula to its spread in the Spanish possessions in the Western Hemisphere and elsewhere; emphasis on the artistic and intellectual currents in Spain and Latin America.

CLASSIFICATION: Elective; required for Secondary Spanish majors
PREREQUISITE: Span. 201-202
CREDIT: Three semester hours—three class hours

SPAN. 307—HISTORY OF SPANISH LITERATURE

Chronological and artistic study of Spanish literature from its beginning through the Golden Age. Reading and discussion in Spanish of representative selections from major authors.

CLASSIFICATION: Elective; required for Secondary Spanish majors
PREREQUISITE: Span. 201-202
CREDIT: Three semester hours—three class hours

SPAN. 308—HISTORY OF SPANISH LITERATURE

Chronological and artistic study of Spanish literature from the Golden Age to the present. Reading and discussion in Spanish of representative selections from major authors.

CLASSIFICATION: Elective; required for Secondary Spanish majors
PREREQUISITE: Span. 201-202
CREDIT: Three semester hours—three class hours

SPAN. 401—CERVANTES

Critical study of the "Quixote" with collateral reading from the minor works of Cervantes.

CLASSIFICATION: Elective
PREREQUISITE: Span. 307-8
CREDIT: Three semester hours—three class hours

SPAN. 402—SPANISH CLASSICAL DRAMA

Reading from the plays of Lope de Vega and Calderon and their contemporaries.

CLASSIFICATION: Elective
PREREQUISITE: Span. 307-8
CREDIT: Three semester hours—three class hours

SPAN. 403—BACKGROUND OF MODERN SPANISH

The evolution of Spanish from Latin with an introduction to Romance Linguistics. The development of the language from the medieval through contemporary periods including brief survey of linguistic differences between peninsular and Latin American Spanish and introduction to Spanish phonetics.

CLASSIFICATION: Elective
PREREQUISITE: Span. 301-2, 307-8
CREDIT: Three semester hours—three class hours

SPAN. 404—19TH CENTURY LITERATURE

The principal movements in Spanish literature of the nineteenth century: Romanticism, Realism, Naturalism. Representative readings and class discussions in Spanish on the development of major genre within the context of the cultural background of the period.

CLASSIFICATION: Elective
PREREQUISITE: Span. 201-2
CREDIT: Three semester hours—three class hours

SPAN. 405—SURVEY OF LATIN-AMERICAN LITERATURE

Highlights of principal literary movements in major Latin American nations. Assigned and collateral readings chosen to illustrate literary developments and to facilitate an insight into the parallel historical, social and cultural developments. Reading and discussion in Spanish.

CLASSIFICATION: Elective
PREREQUISITE: Span. 201-2
CREDIT: Three semester hours—three class hours

GEOGRAPHY DEPARTMENT

Joseph A. Fekete, Chairman

Faculty: *Beaudet, Kury, Laux, Vann.*

GEOGRAPHY COURSES

GEOG. 201—GENERAL GEOGRAPHY

First half of world regional geography: low latitudes, high latitudes, arid and semi-arid regions of the middle latitudes; physical environment, cultural and economic geography of each region; interpretation of maps; geomatical position.

CLASSIFICATION: Required of Elementary Education juniors

CREDIT: Three semester hours—three class hours

GEOG. 202—GEOGRAPHY OF ANGLO-AMERICA

Landforms and climates; soils and natural vegetation; land-use regions: distribution of resources; changing pattern of land use; industrial development.

CLASSIFICATION: Elective for sophomores, juniors, and seniors

CREDIT: Three semester hours—three class hours

GEOG. 203—GEOGRAPHY OF MIDDLE AMERICA

Physical, cultural, historical, and regional geography of Mexico, Central America, and the West Indies; emphasis on man's relationship to the natural environment.

CLASSIFICATION: Elective for sophomores, juniors, and seniors

CREDIT: Three semester hours—three class hours

GEOG. 205—GEOGRAPHY OF ASIA

Excludes the Soviet Union; regional divisions: landforms, climate, and natural resources; cultural and economic geography; social and political problems related to the natural environment; industrial development.

CLASSIFICATION: Elective for sophomores, juniors, and seniors

CREDIT: Three semester hours—three class hours

GEOG. 206—GEOGRAPHY OF NEW YORK STATE

Landform regions, climate and natural resources; development of transportation; utilization and conservation of soil, mineral, forest, wildlife, and water resources; industrial development; distribution of population; location and functions of cities.

CLASSIFICATION: Elective for sophomores, juniors, and seniors

CREDIT: Three semester hours—three class hours

GEOG. 207—CONSERVATION OF NATURAL RESOURCES

Depletion of resources: soils, water, wildlife, forests, grasslands, and minerals; wise use of resources; conservation programs in the United States.

CLASSIFICATION: Elective for sophomores, juniors, and seniors

CREDIT: Three semester hours—three class hours

GEOG. 301—GENERAL GEOGRAPHY

Second half of world regional geography: regions of the middle latitudes; physical environment; agriculture, manufacturing, mining, forest industries, trade, and transportation; distribution of population; interdependence of regions.

CLASSIFICATION: Required of Elementary Education seniors

PREREQUISITE: Geog. 201

CREDIT: Three semester hours—three class hours

GEOG. 302—GEOGRAPHY OF SOUTH AMERICA

Physical, cultural, historical, and regional geography of the South American continent; emphasis on man's use of the land and his adjustment to the natural environment through time.

CLASSIFICATION: Elective for sophomores, juniors, and seniors

CREDIT: Three semester hours—three class hours

GEOG. 305—WORLD ECONOMIC GEOGRAPHY

Study of man's major economies: agriculture, manufacturing, mining, forest industries, commercial fishing, commerce, and transportation; effects of the natural environment on the major economies; interdependence of geographic regions.

CLASSIFICATION: Required of Ex. Ed., Secondary Math. and Science juniors. Elective for others

CREDIT: Three semester hours—three class hours

GEOG. 402—MAP INTERPRETATION FOR TEACHERS

History of maps; types of maps; techniques in map interpretation; methods of developing map-reading skills; maps in the elementary and secondary schools.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

GEOG. 403—GEOGRAPHY OF EUROPE

Excludes the Soviet Union; physiographic regions: landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; interdependence of regions.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

GEOG. 404—GEOGRAPHY OF THE SOVIET UNION

Physiographic regions: landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; problems resulting from changes in land use; interdependence of regions.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

GEOG. 405—GEOGRAPHY OF THE MEDITERRANEAN WORLD

Historical geography; physiographic regions: landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; geographic backgrounds of political divisions and current events; changing patterns of land use.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

GEOG. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

**HEALTH, PHYSICAL EDUCATION AND
RECREATION DEPARTMENT**

James L. Sells, Chairman

Faculty: *Adessa, Hartrick, Hawkes, MacAdam, MacDonald, Marsh, R., Norris, O'Brien, D., Prince, Puleo, Spaulding, Wheeler*

PHYSICAL EDUCATION COURSES

P.ED. 100—PHYSICAL EDUCATION ACTIVITIES

Men's and Women's activities are divided into three categories: (1) Aquatics (by classification); (2) Individual Activities; and (3) Team

and Group Activities. Students are required to take one course from each of the three categories. All freshman students are required to take P.Ed. 100 Aquatics in their first semester. Any student passing a qualifying swim test in the first semester may select his fourth course from among the three categories listed above. Course includes basic fundamentals in a variety of activities—coeducational classes are offered—two semesters or four courses are required of all students for graduation.

CLASSIFICATION: Required of all freshmen

CREDIT: One credit per semester—two class hours

SPECIAL NOTE: (1) Freshmen must take the swim classification test as scheduled during Orientation Week prior to registration
(2) May not take two activities' classes on the same day

P.ED. 103—ADAPTED PHYSICAL EDUCATION

Any student who is permanently medically excused from participation in regular physical education activities and swim classes must fulfill the requirements in an adapted physical education class. Content of classes depends upon the particular disability of the student and will be determined after registration in consultation with the college physician.

CLASSIFICATION: Required of all permanently medically-excused students

CREDIT: One credit per semester—two class hours

SPECIAL NOTE: May not take two activities' classes on the same day

P.ED. 201—RHYTHMIC ANALYSIS AND DANCE

Awareness and perception of rhythm. Analysis of rhythm in relation to music and movement, and to various forms of dance. Rhythmic devices utilized in dance. Study and application of percussion instruments as accompaniment for movement and dance.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

P.ED. 202—TECHNIQUES AND THEORIES OF SPORTS

Basic instruction in the fundamental techniques of coaching football and swimming. Emphasis on coaching philosophy, methods, organization and administration, individual and team skills and strategy with specific reference to the above sports. Equipment purchase and care, training and conditioning procedures and treatment of common injuries.

CLASSIFICATION: Elective for sophomore, junior and senior men

PREREQUISITE: Upperclassmen may take only two of the three techniques' courses offered

CREDIT: Three semester hours—three class hours

P.ED. 203—TECHNIQUES AND THEORIES OF SPORTS

Basic instruction in the fundamental techniques of coaching soccer and baseball. Emphasis on coaching philosophy, methods, organization and administration, individual and team skills and strategy with specific reference to the above sports. Equipment purchase and care, training and conditioning procedures and treatment of common injuries.

CLASSIFICATION: Elective for sophomore, junior and senior men

PREREQUISITE: Upperclassmen may take only two of the three techniques' courses offered

CREDIT: Three semester hours—three class hours

P.ED. 204—TECHNIQUES AND THEORIES OF SPORTS

Basic instruction in the fundamental techniques of coaching basketball and track and field (including cross country). Emphasis on coaching philosophy, methods, organization and administration, individual and team skills and strategy with specific reference to the above sports. Equipment purchase and care, training and conditioning procedures and treatment of common injuries.

CLASSIFICATION: Elective for sophomore, junior and senior men

PREREQUISITE: Upperclassmen may take only two of the three techniques' courses offered

CREDIT: Three semester hours—three class hours

P.ED. 205—THEORY IN WOMEN'S SPORTS

Special methods for teaching techniques, skills and lead-up games in archery, badminton, basketball and volleyball. Special emphasis given to interpretation of rules, officiating, organization of tournaments, Play Days, Sport Days, and use of the various sports in a recreational program.

CLASSIFICATION: Elective for sophomore, junior and senior women

PREREQUISITE: Upperclassmen may take only two of the three techniques' courses offered

CREDIT: Three semester hours—three class hours

P.ED. 206—THEORY IN WOMEN'S SPORTS

Special methods for teaching techniques, skills and lead-up games in softball, speedball, swimming, and track and field. Special emphasis given to interpretation of rules, officiating, organization of tournaments, Play Days, Sport Days, and use of these sports in a recreational program.

CLASSIFICATION: Elective for sophomore, junior and senior women

PREREQUISITE: Upperclassmen may take only two of the three techniques' courses offered

CREDIT: Three semester hours—three class hours

P.ED. 210—LIFE SAVING AND WATER SAFETY

A course in the knowledge and techniques of life saving and water safety: skills in self-rescue, rescuing others; skin diving; scuba diving; surfboard riding; water skiing; recognition and avoidance of hazardous water conditions and practices; and passing the American Red Cross Life Saving requirements.

CLASSIFICATION: Elective for sophomore, junior and senior men and women. Consent of instructor required.

PREREQUISITE: P.Ed. 100

CREDIT: Three semester hours—four class hours

P.ED. 301—PHYSICAL EDUCATION

Principles of physical education: physical education in the elementary and early secondary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and classroom games; selection of activities; safety in physical education.

CLASSIFICATION: Required of Elementary and Early Secondary Education and Exceptional Children Education juniors

PREREQUISITE: P.Ed. 100.

CREDIT: Two semester hours—three class hours

P.ED. 302—DANCE TECHNIQUE AND SCENOGRAPHY

Designed for elementary dance production and experimentation. *Dance Technique*: fundamental principles of movement in relation to force, time and space; development of creative movement patterns; elementary dance composition. Theory and practice.

Scenography: philosophy, theory and practice in scenography for the dance; function of the designer; practical and theoretical design problems for the dance.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: It is recommended that students elect P.Ed. 201 and Art 444

P.ED. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

HEALTH EDUCATION COURSES

H.E.D. 204—PERSONAL AND COMMUNITY HEALTH

Personal hygiene, alcohol and narcotics, mental health, control of communicable diseases, environmental sanitation and health services, healthful school living, and health instruction.

CLASSIFICATION: Required of Elementary Education and Exceptional Children Education juniors

CREDIT: Two semester hours—two class hours

RECREATION COURSES

REC. 204—ORGANIZATION AND LEADERSHIP IN RECREATION

Problems and practices in organization and leadership of school and/or community recreation programs; history; principles; conducting specific activities; areas and facilities; programming; modern trends.

CLASSIFICATION: Elective for sophomore, junior and senior men and women; also consent of instructor

CREDIT: Two semester hours—two class hours

MATHEMATICS DEPARTMENT

Cecil T. Rodney, Chairman

Faculty: *Bailey, W. H., Bailey, W. T., Barr,* Blaeuer, Burros, Chen, Cherkauer, Diedrich, Hilaire, Kennedy, Ludwig, Montgomery, Musser, Smith, S. Stern, Torchinelli, Twaddle, Westrope, Wiesen.*

TEACHING OF MATHEMATICS IN THE SECONDARY SCHOOL

Students who choose to obtain certification to teach mathematics in the secondary school (grades 7-12) and whose applications for appropriate study are approved should include a minimum of 30 semester hours in mathematics. This requirement should include Mathematics 107, 108, 202, 308 and either Mathematics 301 or 302.

MATHEMATICS COURSES

MATH. 102—GENERAL MATHEMATICS

Number; processes; formulas; equations; graphs; functions; exponents; radicals; precision and accuracy in measurement; applications and problems.

* On leave, 1964-65

CLASSIFICATION: Required of all Industrial Arts students

CREDIT: Three semester hours—three class hours

MATH. 103—MATHEMATICS IN MODERN LIFE

Mathematics as a deductive science; sets and relations; classification of number; structure of a number system; mathematical operations and their relations; interpretation and use of statistical data.

CLASSIFICATION: Required of all Art, Home Economics, Secondary majors in English and Social Studies, and Exceptional Education students in Speech and Audiology

CREDIT: Two semester hours—two class hours

MATH. 104—APPLIED MATHEMATICS

Problems related to the technical work of industrial arts; measurement, significant digits, precision, accuracy, reliability of data, types and sources of error; interpretation and derivation of formulas; linear and quadratic equations; primary trigonometric functions; graphs; analysis and solution of problems.

CLASSIFICATION: Required of all Industrial Arts students

PREREQUISITE: Math. 102

CREDIT: Three semester hours—three class hours

MATH. 105—PLANE TRIGONOMETRY

Functions of the general angle; solution of triangles; application of logarithms; identities; inverse functions; graphs of the functions; trigonometric equations; DeMoivre's theorem; miscellaneous problems.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

MATH. 106—COLLEGE ALGEBRA

Functions; graphs; variation; progressions; complex numbers; mathematical induction; theory of equations; logarithms; permutations; combinations; probability; determinants.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

MATH. 107—ANALYTIC GEOMETRY AND CALCULUS

Real numbers; analytic geometry of linear and quadratic forms; functions; limits; continuity; differentiation of algebraic functions; applications of the derivative; the definite integral; fundamental theorem of calculus.

CLASSIFICATION: Required of Secondary Mathematics majors. Elective for others with permission of instructor

CREDIT: Four semester hours—four class hours

MATH. 108—ANALYTIC GEOMETRY AND CALCULUS

The definite integral; differentiation of transcendental functions; techniques of integration; applications of integration; parametric equations.

CLASSIFICATION: Required of Secondary Mathematics majors. Elective for others with permission of instructor

PREREQUISITE: Math. 107

CREDIT: Four semester hours—four class hours

MATH. 153—ANALYTIC GEOMETRY

Coordinate geometry of the straight line, circle, parabola, ellipse, and hyperbole; general equation of the second degree, translation and rotation of axes; general loci; rectangular and polar coordinates.

CLASSIFICATION: Elective for other than mathematics majors

PREREQUISITE: Permission of instructor

CREDIT: Three semester hours—three class hours

MATH. 202—ANALYTIC GEOMETRY AND CALCULUS

Further study of continuous and differentiable functions; infinite series; elements of solid analytic geometry; vectors; partial differentiation; multiple integration.

CLASSIFICATION: Required of Secondary Mathematics majors. Elective for others with permission of instructor

PREREQUISITE: Math. 108

CREDIT: Four semester hours—four class hours

MATH. 203—FUNDAMENTAL PRINCIPLES OF MATHEMATICS

Nature of mathematics; set theory; integers; operations; systems of numeration; rational numbers, operations; number theory.

CLASSIFICATION: Required of all Elementary Education students and Exceptional Education students in mental retardation and physical handicap

CREDIT: Three semester hours—three class hours

MATH. 204—FUNDAMENTAL PRINCIPLES OF MATHEMATICS

Properties of real numbers; linear and quadratic equations and inequalities; systems of linear equations and inequalities; modular arithmetic; complex numbers; algebraic structures; functions; statistics.

CLASSIFICATION: Required of all Elementary Education students and Exceptional Education students in mental retardation and physical handicap

PREREQUISITE: Math. 203

CREDIT: Three semester hours—three class hours

MATH. 210—ELEMENTS OF MATHEMATICS

Types of reasoning or inference; proof; extension of the complex number system; linear and quadratic relations, functions, and their graphs; measurement; mensuration; number bases other than ten.

CLASSIFICATION: Required of all Elementary Education and Exceptional Education students who entered college prior to September 1963

PREREQUISITE: Math. 103

CREDIT: Three semester hours—three class hours

MATH. 301—INTRODUCTION TO MODERN ALGEBRA

Fundamental concepts of sets, mappings, and operations. Topics included are semi-groups, groups, rings, integral domains, fields, modular arithmetic, equivalence and order relations, construction and characterization of number systems.

CLASSIFICATION: Required of all Secondary Mathematics majors and elective for others

PREREQUISITE: Permission of instructor

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May substitute Math. 302

MATH 302—LINEAR ALGEBRA

Vectors and vector spaces; linear dependence; basis and dimension; matrices and determinants; linear systems; linear transformations.

CLASSIFICATION: Required of all Secondary Mathematics majors and elective for others

PREREQUISITE: Permission of instructor

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May substitute Math. 301

MATH. 303—MATHEMATICS IN THE ELEMENTARY GRADES

Development of number and the fundamental processes of elementary mathematics; principles, relationships; generalizations; structure; rationale of the processes with emphasis on historical development of and concepts underlying modern algorithms of arithmetic; measurement; professional literature; readings; project.

CLASSIFICATION: Elective for juniors and seniors

PREREQUISITE: Math. 210

CREDIT: Three semester hours—three class hours

MATH 304—DIFFERENTIAL EQUATIONS

Preliminary ideas on order, degree, and solutions; formation of differential equations; differential equations of first order; linear equations with constant coefficients; special higher order equations; simul-

taneous equations; linear equations of the second order; series solutions.

CLASSIFICATION: Elective

PREREQUISITE: Math. 202

CREDIT: Three semester hours—three class hours

MATH. 305—PROBABILITY AND STATISTICS

Probability spaces, discrete and continuous; distributions of discrete and continuous random variables; mathematical expectation; a brief survey of point estimation, interval estimation, and testing hypotheses.

CLASSIFICATION: Elective

PREREQUISITE: Math. 202

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be taken concurrently with Math. 202

MATH. 307—ELEMENTARY THEORY OF NUMBERS

Divisibility; Euclid's algorithm; prime numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruences; theorems of Fermat, Euler, and Wilson.

CLASSIFICATION: Elective

PREREQUISITE: Permission of instructor

CREDIT: Three semester hours—three class hours

MATH. 308—MODERN GEOMETRY

Historical background of Euclidean geometry; defects of Euclid; modern sets of postulates for Euclidean geometry; logical systems and basic laws of reasoning; Euclidean geometry based on ruler and protractor axioms; introduction of non-Euclidean geometries.

CLASSIFICATION: Required of Secondary Mathematics majors and elective for others

PREREQUISITE: Permission of instructor

CREDIT: Three semester hours—three class hours

MATH. 309—ADVANCED CALCULUS

Sequences and functions; limits; continuity; derivatives; mean value theorems; indeterminate forms; Taylor's theorem; series; functions of two variables continuity in a region; higher derivatives; coordinate transformations.

CLASSIFICATION: Elective

PREREQUISITE: Math. 202

CREDIT: Three semester hours—three class hours

MATH. 310—FUNDAMENTAL PRINCIPLES OF MATHEMATICS

Measurement; language of geometry; theorems and proofs; congruence; parallels and parallelograms; space figures; similarity and trigonometry; areas and volumes; spherical geometry; coordinate geometry; postulational method.

CLASSIFICATION: Required of Elementary Education students

PREREQUISITE: Math. 204

CREDIT: Three semester hours—three class hours

MATH. 401—MODERN GEOMETRY

Groups and transformations; fundamental concepts of topology; projective geometry, affine geometry, and Euclidean geometry.

CLASSIFICATION: Elective

PREREQUISITE: Math. 308

CREDIT: Three semester hours—three class hours

MATH. 405—PROBABILITY AND STATISTICS

Sampling distributions; the central limit theorem; point and interval estimation; tests of hypotheses.

CLASSIFICATION: Elective

PREREQUISITE: Math. 305

CREDIT: Three semester hours—three class hours

MATH. 406—NUMERICAL ANALYSIS

Fundamentals; finite differences; difference tables; tabulation of polynomials; difference operators; linear interpolation; classical polynomial formulas; inverse interpolation; Lagrange's formula; numerical integration; Gauss's formula; difference equations.

CLASSIFICATION: Elective

PREREQUISITE: Math. 202

CREDIT: Three semester hours—three class hours

MATH. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

MUSIC DEPARTMENT

Silas L. Boyd, Chairman

Faculty: *Bailey, P., Champion, English, Fiore, Hoffer, Homer, Tallmadge, Wincenc, and Wolf.*

MUS. 100—THE LISTENER'S ORIENTATION TO MUSIC

An introductory course in Music. Discussion of music elements, their recognition and development in musical masterpieces. Directed listening activities. Attendance at prescribed concerts.

CLASSIFICATION: Required of Art, Elementary Education, and Exceptional Education Divisions

CREDIT: Three semester hours—three class hours

MUS. 104—RUDIMENTS OF MUSIC

Fundamentals of music notation: clefs, key signatures, scales, intervals, meter, note values.

CLASSIFICATION: Required of Music Majors

CREDIT: None

SPECIAL NOTE: May be waived by examination

MUS. 105—APPLIED MUSIC

Individual lessons in piano, voice, strings, organ, wind and percussion instruments. Lessons are adapted to the individual needs of the student.

CLASSIFICATION: Required of Music Majors

CREDIT: One semester hour—one lesson per week

MUS. 106—SYMPHONY ORCHESTRA*

Full symphonic instrumentation; standard and contemporary orchestral literature; opportunity for concerto playing; performances include convocations, Christmas and spring concerts and off-campus concerts; audition or special arrangement with conductor.

CLASSIFICATION: Elective

CREDIT: One semester hour

MUS. 107—WOMEN'S GLEE CLUB*

Membership selected at beginning of each semester; performances include convocations, Christmas and spring programs, community and campus programs.

CLASSIFICATION: Elective

CREDIT: One semester hour

MUS. 108—BAND*

Full uniformed band; performances include convocations, spring concert, moving-up day, civic parades, and off-campus concerts; college-owned instruments available; audition or special arrangement with conductor.

CLASSIFICATION: Elective

CREDIT: One semester hour

MUS. 109—HARMONY

Elementary written, aural, and keyboard harmony. Diatonic triads, non-harmonic tones, and the dominant seventh chord.

CLASSIFICATION: Required of Music Majors; elective for others

PREREQUISITE: Mus. 104 or special permission

CREDIT: Three semester hours—three class hours

MUS. 110—HARMONY

Continuation of written, aural, and keyboard harmony. Secondary triads and altered chords.

CLASSIFICATION: Required of Music Majors; elective for others

PREREQUISITE: Mus. 109

CREDIT: Three semester hours—three class hours

MUS. 111—HARMONY

Advanced harmony. Written, aural and keyboard activities.

CLASSIFICATION: Elective

PREREQUISITE: Mus. 109, 110

CREDIT: Three semester hours—three class hours

MUS. 112—A CAPPELLA CHOIR*

Local concerts, Choir tour, Commencement Exercises. (Students selected through an examination emphasizing intonation, tone quality and musical ability.)

CLASSIFICATION: Elective

CREDIT: One semester hour

MUS. 113—MEN'S GLEE CLUB*

Participation in college and off-campus functions. (Members selected by audition.)

CLASSIFICATION: Elective for all students

CREDIT: One semester hour

* One semester hour of credit maximum in any one semester for participation in musical organizations.

MUS. 115—SIGHT-SINGING AND EAR-TRAINING

Sight singing, melodic and rhythmic dictation; scale patterns and intervals; note and rest values; rhythm patterns.

CLASSIFICATION: Required of Music Majors; elective for others

CREDIT: One semester hour—one class hour

MUS. 116—SIGHT-SINGING AND EAR-TRAINING

Sight singing, harmonic dictation; major and minor chords and their variations; cadences and progressions; metric structures.

CLASSIFICATION: Required of Music Majors; elective for others

PREREQUISITE: Mus. 115

CREDIT: One semester hour—one class hour

MUS. 120—MUSIC IN LIVING

Functions and forms of music in our society; music as art and entertainment; music for work and worship; music in the home and school.

CLASSIFICATION: Required of Home Economics Majors; elective for others by permission

CREDIT: Three semester hours—three class hours

MUS. 202—BASIC MUSICIANSHIP

A working knowledge of theory: rhythmic notation, terminology, scales, simple harmony, transposition. A working knowledge of activities: singing, playing piano and recorder, rhythmic games and conducting.

CLASSIFICATION: Required for Concentration in Music in Elementary Education; elective for others

PREREQUISITE: Mus. 100

CREDIT: Three semester hours—three class hours

MUS. 203—COUNTERPOINT

A general course in counterpoint ranging from strict counterpoint in the five species, 16th Century style, to the 18th Century inventions and figures of Bach.

CLASSIFICATION: Required of Music Majors; elective for others

PREREQUISITE: Mus. 110

CREDIT: Three semester hours—three class hours

MUS. 204—MUSIC FOR CHILDREN

Music experiences for the nursery, kindergarten and primary grades; activities: singing, rhythms, listening, creating, playing and making

instruments, song stories; broad use of all types of materials and equipment.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

MUS. 205—MUSIC FOR CHILDREN

Music experiences for intermediate grades; activities: unison and part singing, folk dances, rhythms, listening, creating, playing instruments, music reading; enrichment of other areas of elementary school curriculum; broad use of all types of materials and equipment.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

MUS. 301—FORM AND ANALYSIS

A general course in the structural, harmonic, and contrapuntal analysis of the various musical forms of all styles and periods.

CLASSIFICATION: Required of Music Majors; elective for others

PREREQUISITE: Mus. 110, 203

CREDIT: Three semester hours—three class hours

MUS. 302—FOUNDATIONS OF MUSIC

Continued development of musicianship; introduction to music experiences in the elementary school; activities: singing, rhythms, listening, creating, playing and making instruments, music reading; use of materials and equipment suitable for elementary school music.

CLASSIFICATION: Required for Concentration in Music in Elementary Education; electives for others

PREREQUISITE: Mus. 100, 202

CREDIT: Three semester hours—three class hours

MUS. 314—ELEMENTARY VOCAL METHODS

Vocal music program in the elementary school surveying basic music texts, recordings, rhythm and melodic instruments used to develop singing, rhythmic, creative, playing, listening, and music reading activities.

CLASSIFICATION: Required of Music Education Majors; elective for others

CREDIT: Three semester hours—three class hours

MUS. 315—JUNIOR-SENIOR HIGH VOCAL METHODS

Vocal music program in junior-senior high; particular concern for needs and characteristics of adolescents.

CLASSIFICATION: Required of Music Education Majors; elective for others

PREREQUISITE: Mus. 314 or by advisement

CREDIT: Three semester hours—three class hours

MUS. 316—VOCAL TECHNIQUES

Class voice procedures, elementary, junior-senior high choral groups, materials, rehearsal techniques.

CLASSIFICATION: Required of Music Education Majors—vocal emphasis

PREREQUISITE: Mus. 314, 315

CREDIT: Two semester hours—two class hours

MUS. 317—INSTRUMENTAL TECHNIQUES

Materials and literature for wind, string, and percussion instruments; organization and management of materials and equipment in the public school instrumental music programs, e.g. budget, library, etc.

CLASSIFICATION: Required of Music Education Majors—instrumental emphasis

PREREQUISITE: Mus. 314, 315

CREDIT: Two semester hours—two class hours

MUS. 400—AMERICAN FOLK MUSIC

Folk music developed in the U.S.: the colonial period, the frontier, the pioneer, the Indian, the cowboy, the Negro, the sailor, and the lumberman. Regional and popular music. Music of ethnic groups in the U.S. Art music as influenced by folk music.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

MUS. 401—ARRANGING—VOCAL

A study of voice ranges, vocal writing, accompaniments, and styles of choral arrangements. Practical experience in arranging music for the choral groups used in public schools.

CLASSIFICATION: Elective for Music Education Majors

PREREQUISITE: Mus. 110, 203, 301

CREDIT: Three semester hours—three class hours

MUS. 402—ARRANGING—INSTRUMENTAL

A study of tone qualities, ranges, and transpositions of standard band and orchestral instruments. Practical experience in arranging music for various large and small instrumental combinations.

CLASSIFICATION: Elective for Music Education Majors

PREREQUISITE: Mus. 110, 203, 301

CREDIT: Three semester hours—three class hours

MUS. 403—DRAMATIC MUSIC

Dramatic works of music for choral organizations: the cantata, oratorio and opera; history and development of these forms.

attendance at churches and concert halls; representative works to be heard from records or actual performances; special readings and discussions of radio operatic presentations.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

MUS. 404—THE ART OF ENJOYING MUSIC

The symphony orchestra; the understanding and enjoyment of the masterpieces of Classic, Romantic and Contemporary composers; attendance at selected concerts.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

MUS. 405—MUSIC LITERATURE FOR YOUNG LISTENERS

Music listening for elementary grades; responding to and understanding of music literature of periods and styles appropriate for elementary grades; varied approaches to discriminative and perceptive listening as associated with the related arts; the role of the teacher in the listening experience.

CLASSIFICATION: Elective

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

MUS. 406—INTRODUCTION TO MUSIC LITERATURE

General survey of musical forms and styles; development of vocal and instrumental music.

CLASSIFICATION: Required of Music Majors; elective for others

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: To precede Mus. 407, 408, 409.
May be elected by graduate students

MUS. 407—MUSIC HISTORY (ANTIQUITY THROUGH BAROQUE)

Emphasis on Medieval, Renaissance, and Baroque styles.

CLASSIFICATION: Required of Music Majors; elective for others

PREREQUISITE: Mus. 406

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

MUS. 408—MUSIC HISTORY (CLASSICAL THROUGH ROMANTIC)

The 19th century opera, oratorio, solo song, chamber music, symphony and other forms.

CLASSIFICATION: Required of Music Majors; elective for others
PREREQUISITE: Mus. 406
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 409—MUSIC HISTORY (CONTEMPORARY)

Musical pioneers of 20th century music; leading styles and compositional techniques.

CLASSIFICATION: Required of Music Majors; elective for others
PREREQUISITE: Mus. 406
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 410—AFRO-AMERICAN MUSIC

Spirituals, minstrelsy, ragtime, blues, jazz popular music, traditional music, Negro music in Latin America; relationship with African music practice.

CLASSIFICATION: Elective
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 411—CONDUCTING

Choral and orchestral conducting; use of the baton; reading and observation; attendance at selected concerts.

CLASSIFICATION: Required of Music Majors; elective for others
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 412—COMPOSITION

Creative work in small and large forms. Composition of entire movements for instrumental or choral groups.

CLASSIFICATION: Elective for Music Education Majors
PREREQUISITE: Mus. 110, 203, 301, and 401 or 402
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 413—VOICE CULTURE AND REPERTORY

Diction; breath control; tone coloring, voice problems; program making.

CLASSIFICATION: Elective
CREDIT: Three semester hours—three class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 414—ADVANCED CHORAL CONDUCTING

A continuation and advanced study of the art of choral conducting: co-ordination of hand technique, breathing, voice control, articulation, balance, and interpretation of the score; i.e. dynamics, legato line, rhythm etc.

CLASSIFICATION: Required of Music Education Majors—vocal emphasis
PREREQUISITE: Mus. 411
CREDIT: Two semester hours—two class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 415—ADVANCED INSTRUMENTAL CONDUCTING

A continuation and advanced study of the art of instrumental conducting: the work emphasizes baton techniques, rehearsal and interpretative problems, and examination of scores.

CLASSIFICATION: Required of Music Education Majors—instrumental emphasis
PREREQUISITE: Mus. 411
CREDIT: Two semester hours—two class hours
SPECIAL NOTE: May be elected by graduate students

MUS. 416—PRACTICUM IN TEACHING MUSIC

Off-campus teaching in two situations in approved public schools with experiences in the vocal and instrumental fields and on the elementary and junior-senior high school levels.

CLASSIFICATION: Required of Music Education Majors
PREREQUISITE: Required Professional Courses
CREDIT: Fifteen semester hours—daily for one semester

MUS. 417—PRINCIPLES OF MUSIC EDUCATION

Nature and philosophy of music education; consideration of current issues and problems on all levels of teaching music.

CLASSIFICATION: Required of Music Education Majors
PREREQUISITE: Mus. 416
CREDIT: Two semester hours—two class hours

MUS. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen
CREDIT: One to six semester hours
SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

NON-CREDIT ACTIVITIES

The Music Department sponsors a wide variety of musical organizations for students: Madrigal Singers, Women's Quartet, Male Quartet, String Quartet, Wood-Wind Quintet, Brass Ensemble, Majorettes and Pep Band. The City of Buffalo affords many musically enriching programs in Albright-Knox Art Gallery, Buffalo and Erie County Public Library, Science Museum, Kleinhans Music Hall, churches, schools, and surrounding communities.

PHILOSOPHY DEPARTMENT

Nicholas G. Fotion, Chairman

Faculty: *Balowitz, Carbonaro, Cole, Gelsomino, McDermott, Vannoy*

PHILOSOPHY COURSES

PHIL. 104—WAYS OF KNOWING

The more important ways of answering the question, "How do you know?"; intuition; revealed truth, or mystic experience; consistency with common sense and ideas previously accepted; dogmatic authority, and the scientific methods of inquiry, education and expert authority. Methodological problems: the functions of concepts, or propositions, and of evidence for propositions.

CLASSIFICATION: Required of all students

CREDIT: Three semester hours—three class hours

PHIL. 201—ETHICS

A critical examination of the principle ethical theories, including objectivism, subjectivism and emotivism. The use of such terms as good and evil, right and wrong, moral and immoral, justice and injustice will be examined. Special attention will be given to the problems of the justification of ethical statements and of ethical disagreements.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 202—PHILOSOPHY OF SCIENCE

A critical examination of science as a human enterprise, of its purposes and methods, of its persistent problems as well as its successes, and of its relations to other human enterprises such as the arts and the humanities.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 203—INTRODUCTION TO AESTHETICS

An analysis of the basic concepts presupposed in any critical examination of the arts, including painting, literature, and music.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 204—LOGIC

A study of the methods and principles of deductive logic.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 205—HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY

A survey of philosophy from the Presocratics through the Medieval Period. The philosophies of such figures as Socrates, Plato, Aristotle, Augustine, Aquinas and William of Occam will be studied.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 206—HISTORY OF MODERN PHILOSOPHY

A survey of philosophy from the Renaissance period through Hegel. The philosophies of Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant and Hegel will be studied.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 301—PHILOSOPHY OF RELIGION

A critical analysis of certain ideas relevant to philosophy of religion. The course will focus on classroom discussion of religious ideas and on the philosophical problems confronting certain of these ideas.

CLASSIFICATION: Elective

PREREQUISITE: Phil. 104 or by consent of instructor

CREDIT: Three semester hours—three class hours

PHIL. 302—PHILOSOPHY OF HISTORY

A critical analysis of leading classical and contemporary philosophies of history. A study of selected philosophical problems connected with the various types of historical discourse.

CLASSIFICATION: Elective
PREREQUISITE: Phil. 104 or by consent of instructor
CREDIT: Three semester hours—three class hours

PHIL. 303—SOCIAL AND POLITICAL PHILOSOPHY

A critical analysis of the major classical and contemporary social and political philosophies. A philosophical analysis of such concepts as "state," "liberty," "law," and "justice."

CLASSIFICATION: Elective
PREREQUISITE: Phil. 104 or by consent of instructor
CREDIT: Three semester hours—three class hours

PHIL. 304—PROBLEMS OF PHILOSOPHY

An analysis of selected problems in epistemology, metaphysics, ethics and of certain movements in contemporary philosophy.

CLASSIFICATION: Elective
PREREQUISITE: Phil. 104 or by consent of instructor
CREDIT: Three semester hours—three class hours

PHIL. 305—CONTEMPORARY PHILOSOPHY

A critical analysis of the major movements in 20th Century Philosophy including Existentialism, Linguistic Analysis, Logical Positivism and Pragmatism.

CLASSIFICATION: Elective
PREREQUISITE: Phil. 104 or by consent of instructor
CREDIT: Three semester hours—three class hours

PHIL. 306—CONTEMPORARY PHILOSOPHY

A critical analysis of the major movements in 20th Century Philosophy including Existentialism, Linguistic Analysis, Logical Positivism and Pragmatism.

CLASSIFICATION: Elective
PREREQUISITE: Phil. 104 or by consent of instructor
CREDIT: Three semester hours—three class hours

PHIL. 401—SEMINAR IN PHILOSOPHY

Intensive analysis of selected topics in philosophy.

CLASSIFICATION: Elective
PREREQUISITE: Consent of instructor
CREDIT: Three semester hours—three class hours

PHIL. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen
CREDIT: One to six semester hours
SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

SCIENCE DEPARTMENT

Theodore E. Eckert, Chairman

Faculty: Ainsworth, Alam, Barron, Bartholomew, Beery, Bennett, Calkin, Collins, Dubois, Dupre, Gillooly, Greenberg, Harman, Himmel, Lampkin, Laug, Lengel, MacKnight, Maravelas, Marsh, L. 'Moisan*, Nadolinski*, Reuss, Ritz, Scheffler, Seeber, Sengbusch, Simmons, Tesmer, Thielking, Tomaka, Tuan, Urban, Wickland, Yalkovsky, Young, Zingaro.

Secondary School Science

Students entering in 1963 or later who wish to prepare for science teaching in the secondary schools, grades 7-12, may enroll in one of the programs leading to certification in secondary school science. Such students are required to complete a basic core program that includes a full year of prescribed courses in each of the following: mathematics, biology, chemistry, earth sciences, and physics. In addition, each student shall select one of the four science fields as an area of concentration, and shall complete 18 semester hours of courses in that science beyond the core program. Details of the program may be obtained from the Chairman of the Science Department.

CORE PROGRAM

Mathematics as advised	6-8 sem. hrs.
Biology 111-112	8 sem. hrs.
Chemistry 111-112	8 sem. hrs.
Earth Science 111-112	8 sem. hrs.
Physics 111-112	8 sem. hrs.

AREAS OF CONCENTRATION—18 Semester Hours

Biology: Biology 201, 203, 301, 401, 402

Chemistry: Chemistry 201, 202, 301, 404, 405, 406

Earth Sciences: Earth Science 201, 204, 301, 302, 303, 402

Physics: Physics 201, 202, 404, 405, 406, elective

Students concentrating in Chemistry, Earth Science, or Physics, must complete successfully courses in integral and differential calculus. Those concentrating in Biology must take either the calculus courses or Biometrics.

* On leave, 1964-65.

Science Courses

BIOLOGY

BIOL. 101—GENERAL BIOLOGY

Principles of basic cellular and tissue physiology; fundamentals of taxonomy; survey of the plant and animal kingdoms.

CLASSIFICATION: Required of students in Elementary Education and Exceptional Education

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

BIOL. 102—GENERAL BIOLOGY

Principles of reproduction, heredity, evolution, ecology and conservation.

CLASSIFICATION: Required of students in Elementary Education and Exceptional Education

PREREQUISITE: Biol. 101

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory, one all-day field trip

BIOL. 105—BIOLOGY FOR HOME ECONOMIC STUDENTS

Human anatomy, metabolism, reproduction, embryology and heredity; man's relationships with the microorganisms; infectious and non-infectious diseases; effects of drugs, tobacco and alcohol on the human body.

CLASSIFICATION: Required of Home Economics sophomores

PREREQUISITE: Chem. 103-104, or the equivalent

CREDIT: Four semester hours; two 1-hour lectures and two 2-hour laboratories

BIOL. 111—GENERAL BIOLOGY

Biochemical and physiological aspects of life; anatomy and morphology of selected organisms; and principles of systematics.

CLASSIFICATION: Required of Secondary Science Majors

CREDIT: Four semester hours; three 1-hour lectures and one 3-hour laboratory, one all-day field trip

BIOL. 112—GENERAL BIOLOGY

Reproduction and development; and an introduction to the principles of genetics, evolution and ecology.

CLASSIFICATION: Required of Secondary Science Majors

PREREQUISITE: Biol. 111

CREDIT: Four semester hours; three 1-hour lectures and one 3-hour laboratory, one all-day field trip

BIOL. 201—MICROBIOLOGY

Microorganisms and the techniques of observing their morphology, growth characteristics, and distribution; the relationship of microorganisms to man and his activities.

CLASSIFICATION: Required of Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or the equivalent

CREDIT: Four semester hours; two 1-hour lectures and two 2-hour laboratories

BIOL. 203—GENETICS

Principles of heredity; inheritance of specific plant, animal, and human traits; biochemical aspects of the gene; relationship to evolution.

CLASSIFICATION: Required of Secondary Biology Majors; others by permission of the instructor

PREREQUISITE: Biol. 111-112, or the equivalent

CREDIT: Four semester hours; three 1-hour lectures and one 2-hour laboratory

BIOL. 301—GENERAL PHYSIOLOGY

Life phenomena of plants and animals. Physiological processes at the cellular level.

CLASSIFICATION: Required of Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or equivalent, and Chem. 112

CREDIT: Three semester hours; two 1-hour lectures and one 3-hour laboratory

BIOL. 302—ZOOLOGY

Morphology, physiology, adaptation, reproduction, genetics and ecology of animals. Lectures, demonstrations, laboratory work.

CLASSIFICATION: Elective, Biology Majors excluded

PREREQUISITE: Biol. 111-112; otherwise by permission of instructor

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

BIOL. 304—BOTANY

Structure and physiology of plants in relation to practical problems; observations, experiments, and laboratory work centering around control of plant life.

CLASSIFICATION: Elective, Biology Majors excluded

PREREQUISITE: Biol. 111-112

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

BIOL. 401—ECOLOGY

Natural communities as ecosystems, interspecific and intraspecific relationships, population changes, biogeochemical cycles, limiting factors, and energy transformations in natural communities, recognition of plants and animals in selected habitats, introduction to analysis of community composition, effects of man in modifying natural environments.

CLASSIFICATION: Required of Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or the equivalent

CREDIT: Four semester hours; six hours per week, including one 3-hour laboratory; one 4-day field session and two half-day field trips may be required

BIOL. 402—HUMAN BIOLOGY

Origin and development of the human species; anatomy, physiology, reproduction, embryology and life cycle of man; conservation of human resources; new problem in human biology.

CLASSIFICATION: Required of Secondary Biology Majors; others with permission of instructor

PREREQUISITE: Biol. 111-112, or the equivalent, Biol. 301, Chem. 111-112

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

BIOL. 403—ECONOMIC BIOLOGY AND CONSERVATION

Control of organisms of economic importance; man as a link in the chain of life.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Biol. 111-112 and Biol. 401

CREDIT: Three semester hours; lectures, field trips, and laboratory

BIOL. 404—PLANT MORPHOLOGY

A study of the comparative structure, reproductive cycles, and phyletic implications in the vascular and nonvascular plants; emphasis on the organization, developmental anatomy, and morphogenesis of vascular plants.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or the equivalent

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

BIOL. 405—ORGANIC EVOLUTION

A study of the empirical foundation of evolutionary theory; emphasis will be on the dynamics of the process of evolution, especially as it relates to individual variation within an interbreeding population, to

the variation pattern on the population level, and to the origin of species; more recent trends in evolutionary theory, such as introgressive hybridization, polyploidy, structural hybridity, apomixis, and genetic homeostasis, will be developed.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or the equivalent; Biol. 203 and Biol. 401 desirable

CREDIT: Three semester hours; three 1-hour lectures

SPECIAL NOTE: Must be taken at the graduate level if not previously taken

BIOL. 406—BIOMETRICS

Collection and presentation of biological data, sampling of attributes, chi-square, sampling from a normal distribution, measurement of central tendency, tests of null hypotheses, comparison of paired groups, linear regression, and correlation.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Math. 106, or the equivalent depending upon high school preparation

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

SPECIAL NOTE: Biol. 406-407 required for permanent certification. May be taken at the graduate level. Calculus (differential and integral) may be substituted.

BIOL. 407—BIOMETRICS

Enumeration data with more than one degree of freedom, analysis of variance in two or more groups of measurement data and with two or more criteria of classification, covariance, multiple regression and covariance, binomial and Poisson distributions, and principles of experimental design.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Biol. 406

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

SPECIAL NOTE: Biol. 406-407 required for permanent certification. May be taken at the graduate level. Calculus (differential and integral) may be substituted.

BIOL. 408—SPECIAL PROBLEMS IN BIOLOGY

Individual research in a specific biological problem selected by the student.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Senior status or 18 hours in Biology and permission of the instructor

CREDIT: One semester hour

SPECIAL NOTE: May be elected for a maximum of three semester hours of credit

BIOL. 409—FIELD BIOLOGY

Field identification, growth characteristics, reproduction, movement, habitats and nutrition of organisms; distribution and man's effect on distribution.

CLASSIFICATION: Elective, Biology Majors excluded

PREREQUISITE: Biol. 101-102, or the equivalent

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory, occasional field trips

BIOL. 411—PARASITOLOGY

Principles of parasitology; morphology, life cycles, identification and pathological effects of representative parasites; control and treatment of parasitic infection; significance of parasitism in relation to human health.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or the equivalent and Biol. 201

CREDIT: Three semester hours; 2 lectures and one 2-hour laboratory

BIOL. 413—ORNITHOLOGY

Birds, their structure, functions, origins, and development; their identification and peculiar habits.

CLASSIFICATION: Elective for Secondary Biology Majors

PREREQUISITE: Biol. 111-112, or the equivalent

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory, field work required

CHEMISTRY

CHEM. 103—CHEMISTRY APPLIED TO HOME ECONOMICS

Basic principles of inorganic chemistry; atomic structure; classification of the elements; valence, bonds, and chemical equations; colligative properties of solutions; colloids; acids, bases, and salts; electrolytes and ionizations; properties and laws of gases.

CLASSIFICATION: Required of Home Economics freshmen

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

CHEM. 104—CHEMISTRY APPLIED TO HOME ECONOMICS

Basic principles of organic and biological chemistry as applied to foods, nutrition, and textiles.

CLASSIFICATION: Required of Home Economics freshmen

PREREQUISITE: Chem. 103

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

CHEM. 105—CHEMISTRY APPLIED TO INDUSTRIAL ARTS

Chemical nature of materials; atomic structure and valence; radioactivity and nuclear energy.

CLASSIFICATION: Required of Industrial Arts students

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

CHEM. 106—CHEMISTRY APPLIED TO INDUSTRIAL ARTS

Continuation of Chemistry 105; application to the industrial arts.

CLASSIFICATION: Required of Industrial Arts students

PREREQUISITE: Chem. 105

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

CHEM. 111—GENERAL CHEMISTRY

Introduction to chemistry utilizing physico-chemical principles with illustrative laboratory work of a quantitative nature.

CLASSIFICATION: Required of chemistry and other science majors

CREDIT: Four semester hours; three lectures and one 3-hour laboratory

CHEM. 112—GENERAL CHEMISTRY (and QUALITATIVE ANALYSIS)

A continuation of General Chemistry; laboratory work in qualitative inorganic analysis.

CLASSIFICATION: Required of chemistry and other science majors

PREREQUISITE: Chem. 111

CREDIT: Four semester hours; two lectures and two 3-hour laboratories

CHEM. 201—ORGANIC CHEMISTRY

Reactions and physical properties of compounds of carbon; laboratory emphasis on physical techniques; the literature of chemistry.

CLASSIFICATION: Required of Chemistry Majors

PREREQUISITE: Chem. 111-112

CREDIT: Four semester hours; three lectures and one 3-hour laboratory

CHEM. 202—ORGANIC CHEMISTRY

A continuation of Organic Chemistry; laboratory work consisting of sequential syntheses.

CLASSIFICATION: Required of Chemistry Majors

PREREQUISITE: Chem. 201

CREDIT: Three semester hours; two lectures and one 3-hour laboratory

CHEM. 301—ANALYTICAL CHEMISTRY (and INSTRUMENTATION)
Theory and laboratory applications of quantitative and instrumental analysis; utilizing gravimetric, volumetric and physico-chemical methods.

CLASSIFICATION: Required of Chemistry Majors

PREREQUISITE: Chem. 111-112, plus junior standing in chemistry

CREDIT: Three semester hours; one lecture and two 3-hour laboratories

CHEM. 401—BIOCHEMISTRY

Physical and organic chemical studies of proteins, carbohydrates, lipids, and water applicable to cellular and membrane phenomena.

CLASSIFICATION: Elective—Strongly recommended for Chemistry Majors

PREREQUISITE: Chem. 405

CREDIT: Four semester hours; three lectures and one 3-hour laboratory

CHEM. 402—BIOCHEMISTRY

Special topics in biochemistry.

CLASSIFICATION: Elective for Chemistry Majors

PREREQUISITE: Chem. 401

CREDIT: Three semester hours; four hours per week including laboratory

CHEM. 404—CHEMISTRY SEMINAR

Discussion of current chemical research and the profession of chemistry.

CLASSIFICATION: Required of Chemistry Majors

PREREQUISITE: 22 semester hours and/or senior standing in chemistry

CREDIT: One semester hour

CHEM. 405—PHYSICAL CHEMISTRY

Description of physico-chemical systems; properties of gases, liquids, and solids; the nature of chemical reactions; thermodynamics, kinetics, electrochemistry; the structure of matter.

CLASSIFICATION: Required of Chemistry Majors

PREREQUISITE: Two years of chemistry, Phy. 112, Math. 162

CREDIT: Four semester hours; three lectures and one 3-hour laboratory

CHEM. 406—PHYSICAL CHEMISTRY

A continuation of Physical Chemistry.

CLASSIFICATION: Required of Chemistry Majors

PREREQUISITE: Chem. 405

CREDIT: Three semester hours; two lectures and one 3-hour laboratory

EARTH SCIENCES

E.S. 111—EARTH SCIENCE

Earth as part of the solar system; the Milky Way galaxy and other celestial systems; observation of stars and planets; astronomical instruments. The atmosphere; methods of observing and recording weather elements; interpretation of weather maps.

CLASSIFICATION: Required of Secondary Education Science Students; others with permission of instructor

CREDIT: Four semester hours; three 1-hour lectures and one 2-hour laboratory, occasional field trips

E.S. 112—PHYSICAL GEOLOGY

Geologic processes in operation on and beneath the surface of the earth.

CLASSIFICATION: Required of Secondary Education Science Students; others with permission of instructor

CREDIT: Four semester hours; three 1-hour lectures and one 2-hour laboratory, occasional field trips

E.S. 201—PHYSIOGRAPHY

Land forms with particular reference to the physical principles of the processes that produce them.

CLASSIFICATION: Required of Earth Science Majors

PREREQUISITE: E.S. 111, 112

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory, occasional field trips

E.S. 202—METEOROLOGY

The atmosphere; methods of observing and recording weather elements; basic principles of forecasting; interpretation of the weather maps; explanation of weather.

CLASSIFICATION: Elective for Earth Science Majors

CREDIT: Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips

E.S. 204—HISTORICAL GEOLOGY

The physical history of the earth in relationship to the orderly development of life throughout geologic time.

CLASSIFICATION: Required of Earth Science Majors; others with permission of instructor

PREREQUISITE: E.S. 112

CREDIT: Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips

E.S. 301—STRATIGRAPHY

Basic principles governing the interpretation, correlation, classification and nomenclature of stratified rock units.

CLASSIFICATION: Required of Earth Science Majors

PREREQUISITE: E.S. 111, 112, 204

CREDIT: Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips

E.S. 302—PALEONTOLOGY

A general study of fossils and their stratigraphic distribution.

CLASSIFICATION: Required of Earth Science Majors

PREREQUISITE: E.S. 111, 112, 204

CREDIT: Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips

E.S. 303—MINERALOGY AND PETROLOGY

Minerals and their chemical and physical properties; occurrence, identification, and classification; crystallography, origin, structure, composition, classification and identification of igneous, metamorphic, and sedimentary rocks.

CLASSIFICATION: Required of Earth Science Majors

PREREQUISITE: E.S. 111, 112, 204, Chem. 111-112

CREDIT: Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips

E.S. 402—GEOLOGY OF NORTH AMERICA

Major physical provinces of the United States and adjacent areas with reference to their geologic history, structure and topographic development.

CLASSIFICATION: Required of Earth Science Majors; others with permission of instructor

PREREQUISITE: E.S. 111, 112, 204, 201

CREDIT: Three semester hours; two 1-hour lectures, one 2-hour laboratory, occasional field trips

PHYSICS

PHY. 103—INDUSTRIAL ARTS PHYSICS

Mechanics, heat, wave motion, and sound with particular reference to Industrial Arts Education.

CLASSIFICATION: Required of Industrial Arts juniors

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 104—INDUSTRIAL ARTS PHYSICS

Light, magnetism, electricity and atomics with particular reference to Industrial Arts Education.

CLASSIFICATION: Required of Industrial Arts juniors

PREREQUISITE: Phy. 103

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 111—GENERAL PHYSICS

Mechanics, heat, wave motion, and sound; the nature, behavior and transformation of energy.

CLASSIFICATION: Required of Secondary Science Majors

CREDIT: Four semester hours; three 1-hour lectures and one 2-hour laboratory

PHY. 112—GENERAL PHYSICS

Electricity, magnetism, light, atomics and nucleonics; the nature, behavior and transformation of energy; man's control of energy.

CLASSIFICATION: Required of Secondary Science Majors

PREREQUISITE: Phy. 111

CREDIT: Four semester hours; three 1-hour lectures and one 2-hour laboratory

PHY. 201—RADIO ELECTRONICS

Series and parallel resonant circuits power transfer and impedance matching; vacuum tubes, rectifiers, amplifiers; oscillators; modulation and demodulation; radio transmitters and receivers; design and construction of rectifiers, power supplies, amplifiers, and simple receivers.

CLASSIFICATION: Required of Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112, 202

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 202—INTERMEDIATE ELECTRICITY

Application of Kirchoff's Laws to networks; induction, capacitance, and resonance in a.c. currents; solution of a.c. problems by various means including vector algebra; electrical instruments and their use in electrical measurement.

CLASSIFICATION: Required of Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112, or the equivalent

CREDIT: Three semester hours; three 1-hour lectures and one 2-hour laboratory

PHY. 301—LABORATORY IN ELECTRICAL MEASUREMENTS

Direct and low-frequency alternating current measurements by meter deflection methods and by null methods; amplifiers and oscillographs; measurements at radio and high frequencies; applications in thermometry, mechanics, acoustics, and nuclear physics.

CLASSIFICATION: Elective for Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112, 202 and calculus

CREDIT: Three semester hours; two 3-hour laboratories

PHY. 303—HEAT

Transfer, emission, absorption, reflection of heat; thermodynamics; isothermal and adiabatic processes; heat engines.

CLASSIFICATION: Elective for Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 and calculus

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 304—SOUND

Analysis of sound; reflection and refraction; diffraction and interference; the ear and hearing; musical sound, quality, scales; supersonics.

CLASSIFICATION: Elective for Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 and calculus

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 401—LIGHT

Fundamentals of geometrical and physical optics; the nature and propagation of light; experiences with such optical phenomena as interference, diffraction, polarization, and double refraction.

CLASSIFICATION: Elective for Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 and calculus

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 402—LABORATORY IN LIGHT

Principles and practices in making precision measurements using such instruments as the interferometer and spectrometer.

CLASSIFICATION: Elective for Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 and Phy. 401

CREDIT: Three semester hours; two 3-hour laboratories

PHY. 403—X-RAYS

Production and measurement of X-rays; absorption and wave properties; Bragg's Law and crystal lattices; emission and absorption spectra; scattering.

CLASSIFICATION: Elective for Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 and calculus

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 404—LABORATORY PRACTICUM

Construction, operation, and maintenance of laboratory equipment commonly used in secondary school physics instruction; sources of information about famous experiments; tables of physical data; demonstration experiences.

CLASSIFICATION: Required of Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112, or the equivalent

CREDIT: Two semester hours; two 2-hour laboratories

PHY. 405—MODERN ATOMIC PHYSICS

The electron and its properties as shown by experiments; the Bohr-Rutherford theory and atomic spectra; qualitative concepts of the quantum theory; selected topics from nuclear physics.

CLASSIFICATION: Required of Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 and calculus

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

PHY. 406—MODERN PHYSICAL CONCEPTS

Applications and limitations of the basic laws of classical mechanics; the special theory of relativity; electricity and the relationship between electrodynamics and special relativity; introduction to methods of quantum mechanics; methods and simple applications of statistical mechanics.

CLASSIFICATION: Required of Physics Majors; others by permission of instructor

PREREQUISITE: Phy. 111-112 or the equivalent and calculus

CREDIT: Four semester hours; three 1-hour lectures and one 2-hour problem session

OTHER SCIENCE

SCI. 203—MAN AND HIS NATURAL ENVIRONMENT

Basic principles of physics and chemistry; distribution, use and control of matter and energy

CLASSIFICATION: Required of students except those in the Industrial Arts and Secondary Science Programs

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

SCI. 204—MAN AND HIS NATURAL ENVIRONMENT

The astronomical characteristics of the earth; the solar system; structure and changing surface of the earth; atmospheric and meteorological changes.

CLASSIFICATION: Required of students except those in the Industrial Arts and Secondary Science Programs

PREREQUISITE: Sci. 203

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

SCI. 410—SCIENCE IN THE ELEMENTARY SCHOOL CURRICULUM

Background, purposes and present scope of science in the elementary school; professional review of subject matter with demonstrations, experiments, audio-visual aids, reading.

CLASSIFICATION: Elective for Elementary Education and Exceptional Education seniors or graduate students

PREREQUISITE: Six semester hours of biology and six semester hours of physical sciences

CREDIT: Three semester hours; two 1-hour lectures and one 2-hour laboratory

SCI. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

SOCIAL STUDIES DEPARTMENT

Richard C. Brown, Chairman

Faculty: Aiken, Ansel, Boyd, J., Brown, E., Brunger, Cho, DeBord, Desai, Drzewieniecki, El-Behairy, Falk, G., Foladare, Grigory, Hollister, Leopard, Lerner, Martorella, McDonnell, Min, Moyer,* Nash, Peterson,* Putzey, Rabow, Roesser, Rothman, Seel, Sexton, Slavenas,* Smith, E., Stone, Trees, Vogler, Weaver, N., Welborn,* Wright.

TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL

Students wishing to teach Social Studies in the secondary schools, grades 7-12, may enroll in the program leading to certification in secondary school Social Studies. Each student is required to complete a total of at least 39 semester hours of work in the Social Studies, in addition to S.S. 101, 102 and Hist. 301. This includes 6 hours in United States History, 6 hours in European History, 6 hours in Geography, 3 hours in the Geography or History and Government of New York State, and 6 hours in each of three of the following: Anthropology, Economics, History other than United States or European, Political Science, Sociology.

ANTH. 201—GENERAL ANTHROPOLOGY

The Study of Man—the animal and the culture-maker; analysis of human evolution; development of races and their significance; human pre-history; the production of culture; human institutions; cultural change.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

ANTH. 301—INDIANS OF NORTH AMERICA

Summary of the racial and archaeological background; linguistics; description of Indian life in the nine sub-cultural areas of North America; contribution to, and the effect of Indians on, American culture; current Indian problems.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

ANTH. 302—ETHNOGRAPHY OF MESOAMERICA

Indians of Mexico, Belize, Guatemala, El Salvador, and Honduras; racial types, language, and culture. Tribal groups are distinguished: Zapotecs, Maya, Tarascans, Aztech, Seri, etc. Impact of Mesoamerican

* On leave 1964-65

culture on Indian cultures of the American Southwest, American Southeast, the Andes, Central America, and the Caribbean.

CLASSIFICATION: Anth. 302 or 303 required for Latin American Studies majors and for students electing this area for 24-hour concentration. Elective for juniors and seniors.

CREDIT: Three semester hours—three class hours

ANTH. 303—ETHNOGRAPHY OF SOUTH AMERICA

Indian and Negroid peoples of Nicaragua, Costa Rica, Panama, South America, and the West Indies; racial types, language and culture. Tribal and ethnic groups are distinguished.

CLASSIFICATION: Anth. 302 or Anth. 303 required for Latin American Studies majors in the Liberal Arts program and for students electing this area for 24-hour concentration. Elective for juniors and seniors.

CREDIT: Three semester hours—three class hours

ANTH. 402—CULTURAL ANTHROPOLOGY

The study of the nature of culture, its processes, and its content; anthropological thought; language; cultural psychology; practical anthropology.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

*ECON. 201—PRINCIPLES AND PROBLEMS OF ECONOMICS
PART I, MACRO-ECONOMICS*

Basic concepts of the economic system; analysis of national income components; determination of the level of national income; money and banking; role of monetary and fiscal policies in promoting economic growth; analysis of selected problems in economic development.

CLASSIFICATION: Required of secondary Social Studies majors. Elective for sophomores, juniors and seniors.

CREDIT: Three semester hours—three class hours

*ECON. 203—PRINCIPLES AND PROBLEMS OF ECONOMICS
PART II, MICRO-ECONOMICS*

Nature of micro-economics; the composition and pricing of national output; distribution of income and the pricing of productive factors; supply and demand analysis as applied to agriculture, the firm, and the consumer; determination of price under various market conditions; international trade and finance; the elementary mathematics of price theory.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

ECON. 301—ECONOMICS OF LABOR-MANAGEMENT RELATIONS

Significance of labor and labor institutions in the development of the American economy; background, growth, structure and objectives of trade unions in the United States; nature, scope, issues and enforcement of collective bargaining; economic theory of the labor market; role of government in labor-management relations; current problems of labor-management relations.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

ECON. 401—INTERNATIONAL ECONOMIC RELATIONS OF THE UNITED STATES

Importance of international trade to the economy; basic theory of international trade, specialization, and exchange; survey of foreign economic policy; relationship between foreign and domestic objectives, implementation of foreign economic policy; evaluation of present policy and recommendations for the future.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 200—COLONIAL HISTORY OF THE AMERICAN PEOPLE

Establishment and development of English, Spanish, French, Dutch and Swedish colonies in North America; American Revolutionary period; colonial influence on early culture and institutions of the United States; subsequent contributions to the American heritage.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 201—SOCIAL AND INTELLECTUAL DEVELOPMENT OF THE AMERICAN PEOPLE TO 1900

Colonial society and thought; American Revolution as a social movement; equalitarian ideas and transcendentalism in the Jacksonian Period; impact of immigration on American religious groups; Civil War and social change; rise of the city; Social Darwinism at home and abroad.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group A (Hist. 201, 202, or 203). Elementary Education sophomores extending certification to Junior High School Social Studies must elect either Hist. 201 or Hist. 202. Elective for sophomores, juniors, and seniors.

CREDIT: Three semester hours—three class hours

HIST. 202—POLITICAL AND ECONOMIC GROWTH OF THE UNITED STATES TO 1900

European expansion in the New World; colonial life and problems of revolution and independence; the constitution and political parties; national growth and the common man; continental expansion; sectional economic systems and the Civil War; impact of industrialization; party politics; imperialism and world power.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group A (Hist. 201, 202, or 203). Elementary Education sophomores extending certification to Junior High School Social Studies must elect either Hist. 201 or Hist. 202. Elective for sophomores, juniors, and seniors.

CREDIT: Three semester hours—three class hours

HIST. 203—UNITED STATES IN THE TWENTIETH CENTURY

Political reform and reaction; isolationism, interventionism, and internationalism in foreign relations; big government, industry, and labor; revolution in foreign policy; national security in the nuclear age; social and intellectual ferment in a pluralistic society.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group A (Hist. 201, 202, or 203). Required of Elementary Education sophomores extending certification to Junior High School Studies. Elective for sophomores, juniors, and seniors in all divisions.

CREDIT: Three semester hours—three class hours

HIST. 204—TWENTIETH CENTURY WORLD

Patterns of government and political ideologies; developments in social and economic theory and institutions; interaction of nationalism in relations between western civilization and non-European world; international politics and institutions.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 205—TWENTIETH CENTURY EUROPE

A study of the political, social, cultural and intellectual history of Twentieth Century Europe, emphasizing the factors contributory to World War I; the Versailles settlement and reconstruction; the Russian Revolution and the rise of Communism; collapse of collective security and the rise of Fascism and National Socialism; the Western Democracies between the War; the road to World War II; the course of the War; restoration of the Atlantic Community, and; the challenge of the Nuclear Age.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for sophomores, juniors, and seniors.

CREDIT: Three semester hours—three class hours

HIST. 206—FOUNDATIONS OF WESTERN CIVILIZATION

Major contributions of three civilizations—Greek, Roman and Medieval—to the Western heritage in philosophy, art, literature, science, government, law and economy.

CLASSIFICATION: Required of secondary Social Studies majors. Elective for sophomores, juniors and seniors.

CREDIT: Three semester hours—three class hours

HIST. 301—IDEAS AND SOCIAL CHANGE IN WESTERN CIVILIZATION

The growth of man's conception of himself and his world, the evolution of the concepts of freedom and democracy, the growth of science and the scientific spirit of inquiry, and the development of technology and man's reactions to it; such ideas as Rationalism, Nationalism, Materialism, Liberalism, and Anti-intellectualism are treated as forming the broad contexts out of which specific ideas and actions have come.

CLASSIFICATION: Required of all students

CREDIT: Three semester hours—three class hours

HIST. 302—HISTORY AND GOVERNMENT OF NEW YORK STATE

Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth to the present time.

CLASSIFICATION: Hist. 302 or Geog. 206 required of secondary Social Studies majors

PREREQUISITE: Limited to students in secondary Social Studies Program

CREDIT: Three semester hours—three class hours

HIST. 304—EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR

Major influences in nineteenth century Europe; nationalism, imperialism, Industrial Revolution, democracy and socialism; causes of World War I.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 305—HISTORY OF ENGLAND SINCE 1485

Rise and transition of representative, parliamentary government; commercial revolution; rise of industrial economy; social, intellectual and economic trends manifested through literature, art, the press and other social agencies; transition from Empire to Commonwealth of Nations; impact abroad of such concepts as mercantilism, laissez-faire, classical economics, and collectivism.

CLASSIFICATION: Required of Secondary English majors. Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 306—HISTORY OF THE FAR EAST

China, Japan and Southeast Asia in modern times; traditional cultures; impact of Western ideas; problems of modernization and industrialization; cultural changes; rise of nationalism and communism.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 307—HISTORY OF MODERN AFRICA

Historical approach to Africa and its relations with other areas; partition of Africa among colonial powers; types of colonial administration and influences on native peoples; cultural and social change; the march to independence.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for juniors and seniors.

CREDIT: Three semester hours—three class hours

HIST. 308—HISTORY OF CANADA

French and English colonization; confederation; national development; role in British Commonwealth; contemporary trends.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 309—AMERICAN LEADERS

Study of selected leaders in critical periods or areas of American Civilization, such as: Benjamin Franklin and Revolutionary America; John Marshall and Federal Power; Booker T. Washington and W.E. DuBois—Contrasting Negro Leaders; Lincoln Steffens and the Muckrakers; Henry Ford and Mass Production.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

HIST. 313—HISTORY OF LATIN AMERICA: THE COLONIAL ERA

Physical, Indian, and European backgrounds; Hispanic conquest and colonization; colonial administration; spread of Christianity; society and social life; transmission and diffusion of culture; conflict of empires.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Required of Elementary Education and Liberal Arts students concentrating in Latin American Studies. Elective for sophomores, juniors, and seniors.

CREDIT: Three semester hours—three class hours

HIST. 314—HISTORY OF LATIN AMERICA: THE NATIONAL ERA

Movements for independence; early political apprenticeship; age of dictators; nationalism and national development; Hispanic-American interrelations; growth of Inter-American System; Latin America in world politics; growth of culture; contemporary problems.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group B (Hist. 205, 304, 306, 307, 313, 314, S.S. 300). Required of Elementary Education and Liberal Arts students concentrating in Latin American Studies. Elective for sophomores, juniors, and seniors.

CREDIT: Three semester hours—three class hours

HIST. 401—AMERICAN EXPANSION SINCE 1783

Territorial acquisitions through annexation, purchase, conquest, occupation and diplomatic negotiation; policies of government administration; imperialism—economic, strategic and benevolent.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 402—HISTORY OF THE SOVIET UNION

Economic and Historical forces behind the Communist Revolution of 1917; the governmental system and its political, social and economic theories; the evolving economic system; Soviet foreign policy; impact of the Revolution and World War II; the church, the educational system and other cultural developments.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 403—HISTORY OF AMERICAN FOREIGN RELATIONS

Independence from Britain and alliance with France; the Constitution and the formation of foreign policies; commercial and territorial expansion; diplomacy of slavery and the Civil War; diplomacy of World Wars I and II; Inter-American relations; leadership in the United Nations and in the world.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 404—THE SOUTH, SECTIONALISM, AND THE CIVIL WAR

Sectional life and sectionalism; pro-slavery and anti-slavery crusades; military conduct of the war; constitutional and diplomatic problems; life behind the lines; political, social and economic reconstruction.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 405—THE RENAISSANCE AND REFORMATION

Impact of the Renaissance and Reformation on intellectual, artistic, economic, political, religious and social development of Europe; humanism, secularism, classicism, individualism in Italy and Northern Europe; Protestant reform and reformers; Catholic Reformation.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 406—THE FRENCH REVOLUTION AND NAPOLEON

Political, social, economic and intellectual fabric of the Old Regime; the Revolution; dictatorship of Napoleon and spread of revolutionary ideas; rise of modern nationalism.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 407—GERMANY SINCE 1871

History, government and political thought; anti-democratic forces; economic and cultural developments; rise and impact of Nazi totalitarianism.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 408—HISTORY OF AMERICAN THOUGHT

Sources of major bodies of thought and ideas in American History; their impact upon American culture; the role that ideas have played in producing a distinctive culture.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

HIST. 409—SEMINAR IN PROBLEMS OF AMERICAN HISTORY

Readings, discussion and research on such selected problems as internal and external causes of the American Revolution; the frontier thesis; the causes of the Civil War; restrictions on immigration; isolationism in America.

CLASSIFICATION: Required of secondary social studies majors

PREREQUISITE: Senior status and official standing in secondary social studies program

CREDIT: Three semester hours—three class hours

HIST. 413—HISTORY OF RUSSIA TO 1917

A survey of the social, political, and economic history of Russia from the Varangians state to the October 1917 Revolution, emphasizing the effects of geographic location, the Mongol conquest, and retarded reorientation toward the West in the 18th and 19th Centuries, participation in world politics, expansion in Europe and in the East, participation in World War I.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

P.S. 201—PRINCIPLES AND PROBLEMS OF INTERNATIONAL RELATIONS

Factors affecting national power; pressures in the making of national policy; international political system; conduct of foreign relations; international law in war and peace; problems of international organizations.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

P.S. 206—AMERICAN POLITICS AND POLITICAL PARTIES

Framework of American political system; major and minor parties; party organization; party bosses and machines; pressure politics; public opinion and propaganda; party finance; what the citizen can do in politics; talks and interviews by local political leaders.

CLASSIFICATION: P.S. 206 or P.S. 207 required of secondary Social Studies majors. Elective for sophomores, juniors and seniors.

CREDIT: Three semester hours—three class hours

P.S. 207—AMERICAN POLITICAL INSTITUTIONS AND PROBLEMS

The Constitution and its principles; functions and roles of the federal executive, legislative, and judicial branches; problems of individual liberty and governmental authority; problems of national security, economic regulations and social welfare.

CLASSIFICATION: P.S. 206 or P.S. 207 required of secondary Social Studies majors. Elective for sophomores, juniors and seniors.

CREDIT: Three semester hours—three class hours

P.S. 301—COMPARATIVE GOVERNMENT

Twentieth-century setting of politics; structure and function of ideologies underlying government; political elites; policy-making, administrative and judicial processes; illustrations and comparisons among major nations.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

P.S. 403—HISTORY OF POLITICAL THEORY

Chief modern contributors to the political ideologies of democracy, liberalism, conservatism, nationalism, socialism, communism, Fascism, and Nazism.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

S.S. 101—MAN AND HIS INSTITUTIONS: SOCIAL, ECONOMIC AND POLITICAL

Man as a member of his society and culture; personality development as a product of group living; systems of values; the Family, Church, School, Economy and State as means for the pursuit of values, for satisfying basic needs, and for social control.

CLASSIFICATION: Required of all students

CREDIT: Three semester hours—three class hours

S.S. 102—MAN AND HIS INSTITUTIONS: SOCIAL, ECONOMIC AND POLITICAL

Man as a member of his society and culture; personality development as a product of group living; systems of values; the Family, Church, School, Economy and State as means for the pursuit of values, for satisfying basic needs, and for social control.

CLASSIFICATION: Required of all students

PREREQUISITE: S.S. 101

CREDIT: Three semester hours—three class hours

S.S. 300—HISTORY AND CULTURE OF THE MIDDLE EAST

Definition of the Middle East; geographically, economically and politically; history of the peoples; nature of Moslem and other cultures; contemporary way of life.

CLASSIFICATION: Elementary Education sophomores must elect one course from Group B (Hist. 205, 306, 307, 313, 314, S.S. 300). Elective for juniors and seniors.

CREDIT: Three semester hours—three class hours

S.S. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

SOC. 201—THE AMERICAN COMMUNITY

Social and economic structure and problems of contemporary American communities; rural-agriculture in an industrial economy, farm surpluses, taxation and education; urban-group behavior and social control, health and welfare, taxation and education, conflicting economic interests of business, labor and the consumer; inter-relationship of rural and urban communities—population trends, centralization and decentralization, mass communications.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

SOC. 202—ANALYZING SOCIAL PROBLEMS

Problem areas of American society; sources of information; techniques for discovering and analyzing social problems; analysis of several major problems selected in accordance with student desires, needs and interests.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

SOC. 301—NATIONALITY GROUPS IN AMERICAN CULTURE

Problems and cultural contributions of largest immigrant ethnic groups; patterns of immigration; immigrant institutions; community life; problems of assimilation and of the "second generation."

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SOC. 303—SOCIAL PSYCHOLOGY

Determinants of human behavior; influence of the individual upon society; influence of society upon the individual; social change; psychology of social movements.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SOC. 304—SOCIAL STRATIFICATION

Analysis of social structure, particularly as it applies to stratification as a determinant of human behavior; nature and function of social stratification; kinds of stratification systems; differences in class interests, values and behaviors; power relationships among classes; social mobility.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SOC. 401—JUVENILE DELINQUENCY

Current trends in juvenile delinquency; causes, nature and extent of deviant behavior; resources of the clinician; children's court; methods of treatment.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

Elementary Education Division

Lorraine A. Lange, Director

The curriculum provides for all aspects of a professional program and leads to a teaching career in the elementary schools. Graduates receive a Bachelor of Science Degree, which gives them provisional certification to teach in the area of their specialization. Permanent certification will be earned by completing thirty semester hours of approved advanced courses. The fifth year must be completed within a five year period.

ELEMENTARY EDUCATION (GRADES K-6)

Students in the Elementary curriculum receive a comprehensive program of supervised teaching experiences with children of various age levels in different types of schools. Their professional education consists of a study of human growth and development, sociological backgrounds of elementary school children, and understanding of the learning process, and the necessary skills in teaching the common branch subjects, participation in classroom situations, and student teaching under the supervision of a master teacher and a college supervisor.

Student teaching experiences are provided in cooperating public schools in the college community. Students are required to reside in some communities during student teaching assignments.

An academic concentration is required for elementary teachers. For the four-year provisional certification, the requirement is "a minimum of 24 semester hours of study . . . in a department or a planned interdepartmental program of studies." To obtain permanent certification (a fifth year of study) the candidate must have a *total* of 30 semester hours". . . in a department or a planned interdepartmental program. . . ."

The areas of concentration are: Art, English, Foreign Language, Geography, Latin American Studies, Mathematics, Music, Science, Social Studies, Social Studies-Geography, and The Arts.

A student may extend his certification to teach in grades 7-9 in the areas of English, General Science, Foreign Language, Mathematics or Social Studies. The specific requirement in the five areas for extension of provisional certification is:

English	30 semester hours
General Science	36 semester hours
Foreign Language	24 semester hours
Mathematics	18 semester hours
Social Studies	30 semester hours

The student wishing to extend certification will complete the following professional education courses in elementary education curriculum: Ed. 101, 102, 201, 202, 301, 401, 402. He will take the three-hour methods course pertaining to his area of concentration. In addition, the student must complete a minimum of eighty clock hours in teaching the selected academic subject in the early secondary grades.

The student working for permanent certification to teach grades 7-8 must have:

English	36 semester hours
General Science	42 semester hours
Foreign Language	30 semester hours
Mathematics	24 semester hours
Social Studies	36 semester hours

ELEMENTARY EDUCATION CURRICULUM

JUNIOR TEACHING SECTION*

FIRST YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Ed. 101	Human Growth and Development	4	3
S.S. 101	Man and His Institutions: Social, Economic, and Political	3	3
Biol. 101	General Biology	4	3
Eng. 101	Effective Communication	3	3
Art 100	Essentials of Visual Art	3	3
P.Ed. 100	Physical Education Activities	2	1
Or. 100	Orientation	1	0
		20	16

Second Semester

Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 102	Human Growth and Development	4	3
S.S. 102	Man and His Institutions: Social, Economic, and Political	3	3
Biol. 102	General Biology	4	3
Eng. 102	Effective Communication	3	3
Mus. 100	The Listener's Orientation to Music	3	3
P.Ed. 100	Physical Education Activities	2	1
		20	16

* Students whose last name begins with A-L.

SECOND YEAR

Course Titles		First Semester	
Class	Credit	Hours	Hours
Ed. 201	School and Society	3	3
Eng. 210	Children's Literature	3	3
Math. 203	Fundamental Principles of Mathematics	3	3
Elective	.....	3	3
Phil. 104	Ways of Knowing	3	3
S.S. Group B:—Select one	.....	3	3
Hist. 205	Twentieth Century Europe		
Hist. 313	History of Latin America—The Colonial Era		
Hist. 314	History of Latin America—The National Era		
Hist. 306	History of the Far East		
Hist. 307	History of Modern Africa		
S.S. 300	History and Culture of the Middle East		
		18	18

Course Titles		Second Semester	
Class	Credit	Hours	Hours
Ed. 202	Teaching the Language Arts	4	3
Sci. 203	Man and His Natural Environment	4	3
Elective	.....	3	3
Math. 204	Fundamental Principles of Mathematics	3	3
Eng. 301	Ideas of Man and His World in Literature	3	3
S.S. Group A:—Select one	.....	3	3
Hist. 201	Social and Intellectual Development of the American People to 1900		
Hist. 202	Political and Economic Growth of the U.S. to 1900		
Hist. 203	United States in the Twentieth Century		
		20	18

THIRD YEAR

Course Titles		First Semester	
Class	Credit	Hours	Hours
Ed. 301	The Teaching of Social Studies, Science and Mathematics	9	6
Elective	.....	3	3
Geog. 201	General Geography	3	3
Sci. 204	Man and His Natural Environment	4	3
		19	15

Course Titles		Second Semester	
Class	Credit	Hours	Hours
Ed. 401	Practicum in Elementary School Teaching	30	15

FOURTH YEAR

Course Titles		First Semester	
Class	Credit	Hours	Hours
Ed. 402	Seminar in Education	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Electives	.....	6	6
Math. 310	Fundamental Principles of Mathematics	3	3
H.Ed. 204	Personal and Community Health	2	2
		17	17

Course Titles		Second Semester	
Class	Credit	Hours	Hours
Electives	.....	9	9
Geog. 301	General Geography	3	3
Eng. 302	Ideas of Man and His World in Literature	3	3
		15	15

SENIOR TEACHING SECTION*

FIRST YEAR

Course Titles		First Semester	
		Class	Credit
		Hours	Hours
Ed. 101	Human Growth and Development	4	3
S.S. 101	Man and His Institutions: Social, Economic and Political	3	3
Biol. 101	General Biology	4	3
Eng. 101	Effective Communication	3	3
Mus. 100	The Listener's Orientation to Music	3	3
P.Ed. 100	Physical Education Activities	2	1
Or. 100	Orientation	1	0
		20	16

Course Titles		Second Semester	
		Class	Credit
		Hours	Hours
Ed. 102	Human Growth and Development	4	3
S.S. 102	Man and His Institutions: Social, Economic and Political	3	3
Biol. 102	General Biology	4	3
Eng. 102	Effective Communication	3	3
Art 100	Essentials of Visual Art	3	3
P.Ed. 100	Physical Education Activities	2	1
		19	16

* Students whose last name begins with M to Z.

SECOND YEAR

Course Titles		First Semester	
		Class	Credit
		Hours	Hours
Sci. 203	Man and His Natural Environment	4	3
Math. 203	Fundamental Principles of Mathematics	3	3
Elective	.....	3	3
Eng. 301	Ideas of Man and His World in Literature	3	3
S.S. Group A:	Select one—	3	3
Hist. 201	Social and Intellectual Development of the American People to 1900		
Hist. 202	Political and Economic Growth of the U.S. to 1900		
Hist. 203	United States in the Twentieth Century		
		16	15

Course Titles		Second Semester	
		Class	Credit
		Hours	Hours
Ed. 201	School and Society	3	3
Eng. 210	Children's Literature	3	3
Sci. 204	Man and His Natural Environment	4	3
Math. 204	Fundamental Principles of Mathematics	3	3
Elective	.....	3	3
S.S. Group B:	Select One—	3	3
Hist. 205	Twentieth Century Europe		
Hist. 313	History of Latin America—The Colonial Era		
Hist. 314	History of Latin America—The National Era		
Hist. 306	History of the Far East		
Hist. 307	History of Modern Africa		
S.S. 300	History and Culture of the Middle East		
		19	18

THIRD YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Ed. 202	Teaching the Language Arts	4	3
Geog. 201	General Geography	3	3
Elective	.....	6	6
Math. 310	Fundamental Principles of Mathematics	3	3
Eng. 302	Ideas of Man and His World in Literature	3	3
		19	18

Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 301	The Teaching of Social Studies, Science and Mathematics	9	6
Phil. 104	Ways of Knowing	3	3
Electives	.....	9	9
		21	18

FOURTH YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Ed. 401	Practicum in Elementary School Teaching	30	15

Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 402	Seminar in Education	3	3
Geog. 301	General Geography	3	3
Elective	.....	3	3
H.Ed. 204	Personal and Community Health	2	2
Hist. 301	Ideas and Social Change in Western Civilization	3	3
		14	14

EDUCATION DEPARTMENT

Eddie E. Sage, Chairman

Faculty: Amershek, Barnett, Bilsky, Brown, M., Burrell, Carroll, Carter, Cherkauer, A., Converse, Conway, Crayton, Dettre, Dixon, Dockery, Dullaert, Ecker, Eddins, Ferm, Fink,* Fitzpatrick, Frey, Glatt, Goldberg, Harvin, Hemink, Hughes,* Kaltsounis, Kaplan, Kelly, Licata, Martorana, McComb, Milanovich, Myers, O'Brien, Pearce, Pearson, Penn, Peo, Robison, L., Schreiber, Segal, Shea, Steffen, Sugarman,* Sullivan, Turner, Tursi, Walker, Ware, Wells, Young, Zimmerman, G.

The Education Department is a unit of the Division of Elementary Education and serves all curricula of the college in their professional course sequence requirements.

ED. 101—HUMAN GROWTH AND DEVELOPMENT

Processes of development and learning in childhood, hereditary and environmental factors influencing physical, motor, mental, social, emotional and personality development; effect of home, school, and community; evaluation of development and learning; directed observations.

CLASSIFICATION: Required of Art sophomores, E.E. and Ex.Ed. freshmen majoring in Mentally Retarded and Physically Handicapped fields

CREDIT: Three semester hours—four class hours

ED. 102—HUMAN GROWTH AND DEVELOPMENT

Processes of development and learning in preadolescence and adolescence; hereditary and environment factors influencing physical, motor, mental, social, emotional and personality development; effect of home, school, and community; evaluation of development and learning; directed observations.

CLASSIFICATION: Required of Art sophomores, E.E. and Ex.Ed. freshmen majoring in Mentally Retarded and Physically Handicapped fields

PREREQUISITE: Ed. 101

CREDIT: Three semester hours—four class hours

ED. 103—HUMAN GROWTH AND DEVELOPMENT

Processes of development and learning in childhood and preadolescence; learning theory and application; motivation; preludes to adolescence; directed observations.

CLASSIFICATION: Required of I.A., Secondary Eng., Math., S.S., Sci., and For. Lang. sophomores

CREDIT: Three semester hours—four class hours

* On leave, 1964-65

ED. 104—HUMAN GROWTH AND DEVELOPMENT

Processes of development and learning in adolescence; effects of physique, family, peer group, school, neighborhood; problems of adolescents; drop-outs; deviates; evaluation; theory and application; directed observations.

CLASSIFICATION: Required of I.A., Secondary Eng., Math., S.S., Sci., and For. Lang. sophomores

PREREQUISITE: Ed. 103

CREDIT: Three semester hours—four class hours

ED. 201—SCHOOL AND SOCIETY

Education as a function of a democratic society; sociological and historical backgrounds of the schools; current issues and problems affecting the schools; objectives, control and financial support of education in the State of New York and the U.S.; directed observation.

CLASSIFICATION: Required of E.E. and Ex.Ed. sophomores in Mentally Retarded and Physically Handicapped fields

PREREQUISITE: Ed. 101, 102

CREDIT: Three semester hours—three class hours

ED. 202—TEACHING THE LANGUAGE ARTS

Teaching the language arts in the elementary school with special emphasis on the teaching of reading: foundations of learning; language development; various aspects of the language arts in elementary education. Directed observation and participation in elementary school classrooms and Child Study Center; laboratory experiences for developing specific professional competencies.

CLASSIFICATION: Required of E.E. and Ex.Ed. sophomores in Mentally Retarded and Physically Handicapped fields

PREREQUISITE: Ed. 101, 102, 201

CREDIT: Three semester hours—four class hours

ED. 203—EDUCATIONAL PSYCHOLOGY

Psychological principles underlying learning and effective teaching; the effect of social and personality factors on learning; assessment and evaluation of individual progress; diagnosis of difficulties in learning; discipline, programming, and planning as related to instruction; directed observations.

CLASSIFICATION: Required of H.Ec. sophomores. Elective for sophomores, juniors, and seniors

PREREQUISITE: Psy. 101, H.Ec. 109; or Ed. 101, 102; or Ed. 103, 104

CREDIT: Three semester hours—four class hours

ED. 205—OUTDOOR EDUCATION IN THE PUBLIC SCHOOL

Principles, procedure, and purposes of outdoor education programs in public schools; short field trips; camping experiences; observations and participation in outdoor teaching methods and techniques.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—three class hours

ED. 301—THE TEACHING OF SOCIAL STUDIES, SCIENCE AND MATHEMATICS

Selecting, organizing and presenting elementary school science, mathematics, and social studies materials; evaluating pupil progress; further experience in elementary school teaching; observation and classroom participation.

CLASSIFICATION: Required of E.E. juniors

PREREQUISITE: Ed. 101, 102, 201, 202; cumulative average of 2:00 or higher

CREDIT: Six semester hours—nine class hours

ED. 305—THE CHILD AND THE CURRICULUM

Selecting, organizing and presenting curriculum materials on different grade levels; teacher-pupil relationships; evaluating pupil progress; observation, participation and conferences with instructors and classroom teachers.

CLASSIFICATION: Required of Ex.Ed. juniors majoring in Mentally Retarded and Physically Handicapped fields

PREREQUISITE: Ed. 101, 102, 201, 202; cumulative average of 2:00 or higher

CREDIT: Three semester hours—nine class hours

SPECIAL NOTE: One-half semester

ED. 306—METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL ENGLISH

Selecting, organizing, and presenting curriculum materials; teacher-pupil relationships; evaluating pupil progress; introduction to classroom teaching; observation and participation in the secondary school; class discussion; conferences with instructors and classroom teachers.

CLASSIFICATION: Required of juniors majoring in secondary school English

PREREQUISITE: Ed. 103, 104

CREDIT: Three semester hours—four class hours

ED. 307—METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL MATHEMATICS

Objectives of secondary education; secondary curriculum; adaptation of programs to adolescent needs; interrelationships of elementary and

secondary school programs; planning and presenting classroom learning experiences for students; introduction to classroom teaching. Secondary school classroom observations.

CLASSIFICATION: Required of juniors majoring in secondary school Mathematics

PREREQUISITE: Ed. 103, 104; cumulative average of 2.00 or higher; approval by Mathematics Department chairman

CREDIT: Three semester hours—three class hours

ED. 308—METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL SCIENCE

Objectives of secondary education; adaptation of programs to adolescent needs; interrelationships of elementary and secondary school programs; introduction to classroom teaching in the field of secondary science; teacher-pupil relationships; problems involved in laboratory and demonstration experiences; planning and presenting classroom learning experiences for students, including laboratory experiences.

CLASSIFICATION: Required of juniors majoring in secondary school Science

PREREQUISITE: Ed. 103, 104; cumulative average of 2.00 or higher; approval by Science Department chairman

CREDIT: Three semester hours—four class hours

ED. 309—METHODS AND MATERIALS IN TEACHING SECONDARY SCHOOL SOCIAL STUDIES

Selecting, organizing and presenting curriculum materials; teacher-pupil relationships; evaluating pupil progress; introduction to classroom teaching; observation and participation in the secondary school; conferences with instructor and classroom teachers.

CLASSIFICATION: Required of juniors majoring in secondary school social studies

PREREQUISITE: Ed. 103, 104; cumulative average of 2.00 or higher; approval by Social Studies Department chairman

CREDIT: Three semester hours—four class hours

ED. 310—METHODS AND MATERIALS IN TEACHING FOREIGN LANGUAGES IN THE SECONDARY SCHOOL

Selecting, organizing and presenting curriculum materials; interrelationship of elementary and secondary school programs; teacher-pupil relationships; evaluating pupil progress; introduction to classroom teaching; observation and participation in the secondary school; conferences with instructors and classroom teachers.

CLASSIFICATION: Required of juniors majoring in secondary school Foreign Languages

PREREQUISITE: Ed. 103, 104; cumulative average of 2.00 or higher; approval by Foreign Language Department chairman

CREDIT: Three semester hours—four class hours

ED. 400—ELEMENTARY STATISTICS

Terminology and notation of common statistical concepts; computation of elementary educational statistics; application of statistical methods to educational and psychological problems; interpretation of educational and psychological data.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 401—PRACTICUM IN TEACHING

Teaching under supervision in elementary grades five days per week; group and individual conferences; individual and group instruction; daily and long-view planning; teacher-pupil planning; unit teaching; classroom management; routine procedures; audio-visual aids; community resources; record keeping; evaluation techniques; participation in total school program.

CLASSIFICATION: Required of E.E. juniors or seniors

PREREQUISITE: 1. A cumulative average of 2.00 or higher and pre-semester average of 2.00 or higher
2. A grade of "C" or higher in Education 301
3. An average of "C" or higher in the professional education sequence
4. A passing grade in Eng. 101-102
5. Satisfactory completion or exemption in Ex.Ed. 100 (Student Speech Clinic)

CREDIT: Fifteen semester hours—thirty (30) hours of teaching and conferences per week

ED. 402—SEMINAR IN EDUCATION

Nature and function of a philosophy of education; scientific movement in education; research methods and techniques; crucial issues in education; problems of beginning teachers.

CLASSIFICATION: Required of E.E. seniors

PREREQUISITE: Ed. 401

CREDIT: Three semester hours—three class hours

ED. 403—HISTORICAL AND PHILOSOPHICAL FORCES INFLUENCING SECONDARY EDUCATION

European influences in American education; religious influences in American education; religious influences on education; secular influences in education; evolving concepts of education in a democracy; social and economic pressures in education; development of the secondary school; conflicting philosophies in current education.

CLASSIFICATION: Required of secondary education majors in English, mathematics, science, and social studies

PREREQUISITE: Ed. 306, or 307, or 308, or 309
 CREDIT: Three semester hours—three class hours
 SPECIAL NOTE: Taken concurrently with student teaching. May be elected by graduate students

ED. 404—PRACTICUM IN ELEMENTARY SCHOOL TEACHING

Full-time teaching under supervision five days per week; group and individual conferences at college two days during nine-week assignment; individual and group instruction; daily and long-view planning; teacher-pupil planning; unit teaching; classroom management; routine procedures; audio-visual aids; community resources; record keeping; evaluation techniques; participation in total school program.

CLASSIFICATION: Required of Ex.Ed. seniors majoring in Mentally Retarded and Physically Handicapped fields

PREREQUISITE: Passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (Speech Clinic); grade of "C" or higher in Ed. 315; cumulative and previous semester average of "C" or higher. Each student is required to maintain a "C" or better average in his professional education sequence as a prerequisite for student teaching and as a requirement for graduation

CREDIT: Six semester hours—thirty (30) hours of teaching and conferences per week

SPECIAL NOTE: One-half semester

ED. 405—PRACTICUM IN ELEMENTARY SCHOOL TEACHING

Full-time teaching under supervision five days per week; group and individual conferences at college two days during nine-week assignment; individual and group instruction; daily and long-view planning; teacher-pupil planning; unit teaching; classroom management; routine procedures; audio-visual aids; community resources; record keeping; evaluation techniques; participation in total school program.

CLASSIFICATION: Required of Ex.Ed. seniors majoring in Mentally Retarded and Physically Handicapped fields

PREREQUISITE: Passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (Speech Clinic); grade of "C" or higher in Ed. 305; cumulative and previous semester average of "C" or higher. Each student is required to maintain a "C" or better average in his professional education sequence as a prerequisite for student teaching and as a requirement for graduation

CREDIT: Eight semester hours—thirty (30) hours of teaching and conferences per week

SPECIAL NOTE: One-half semester

ED. 406—PRACTICUM IN TEACHING ENGLISH IN THE SECONDARY SCHOOL

Full-time teaching under supervision five days per week; group and individual conferences at college two days during each of two teaching assignments; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedures; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program.

CLASSIFICATION: Required of juniors or seniors majoring in Secondary School English

PREREQUISITE: Ed. 306. Passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (Speech Clinic); grade of "C" or higher in Ed. 306; cumulative and previous semester average of "C" or higher; each student with an academic area of major study is required to maintain a better than "C" average (higher than 2.00) in that area as a prerequisite for student teaching and as a requirement for graduation; approval by English Department chairman

CREDIT: Twelve semester hours—thirty (30) hours of teaching and conferences per week

ED. 407—PRACTICUM IN TEACHING MATHEMATICS IN THE SECONDARY SCHOOL

Teaching under supervision five days per week for two eight-week assignments; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedure; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program.

CLASSIFICATION: Required of juniors or seniors majoring in Secondary School Mathematics

PREREQUISITE: Ed. 307; passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (Speech Clinic); grade of "C" or higher in Ed. 307; cumulative and previous semester average of "C" or higher; each student with an academic area of major study is required to maintain a better than "C" average (higher than 2.00) in that area as a prerequisite for student teaching and as a requirement for graduation; approval by Mathematics Department chairman

CREDIT: Twelve semester hours—thirty (30) hours of teaching and conferences per week

SPECIAL NOTE: Taken concurrently with Ed. 403

ED. 408—PRACTICUM IN TEACHING SCIENCE IN THE SECONDARY SCHOOL

Teaching under supervision five days per week for two eight-week assignments; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedure; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program.

CLASSIFICATION: Required of juniors or seniors majoring in Secondary School Science

PREREQUISITE: Satisfactory completion of Ed. 308; passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (Speech Clinic); grade of "C" or higher in Ed. 308; cumulative and previous semester average of "C" or higher; each student with an academic area of major study is required to maintain a better than "C" average (higher than 2.00) in that area as a prerequisite for student teaching and as a requirement for graduation; approval by Science Department chairman

CREDIT: Twelve semester hours—thirty (30) hours of teaching and conferences per week

ED. 409—PRACTICUM IN THE TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOL

Teaching under supervision at least four days per week; group and individual conferences at college two days during each of two nine-week assignments; individual and group instruction; daily and long-view planning; unit teaching; classroom management, routine procedures; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program.

CLASSIFICATION: Required of juniors or seniors majoring in Secondary School Social Studies

PREREQUISITE: Ed. 309. Passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (speech clinic); grade of "C" or higher in Ed. 309, cumulative average and previous semester average of "C" or higher; each student with an academic area of major study is required to maintain a better than "C" average (higher than 2.00) in that area as a prerequisite for student teaching and as a requirement for graduation; approval by Social Studies Department chairman.

CREDIT: Twelve semester hours—thirty (30) hours of teaching and conferences per week

ED. 410—PHILOSOPHY OF EDUCATION

Examination and evaluation of the more influential theories of education and their effect upon education, past and present; effect of democratic, as opposed to authoritarian, concepts of the good life upon school policy and practice; nature and function of academic freedom; the public school and the religious dimension of life; importance of continuity between avowed values and actual school practices.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 411—EVALUATION IN THE ELEMENTARY SCHOOL

Principles and procedures of evaluation in the elementary school; selection, administration, scoring and interpretation of standardized tests; the use and construction of teacher-made measurement instruments; the effective use of observation in appraising pupil growth; cumulative records and their uses; effective methods of reporting pupil progress; basic statistical concepts.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 412—COMPARATIVE EDUCATION

Education as an influence in world affairs; comparison of educational problems and their solutions in various countries; relationship of educational programs to the cultural heritage and its future. Countries studied in terms of student interests and current developments.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 413—PRACTICUM IN THE TEACHING OF FOREIGN LANGUAGES IN THE SECONDARY SCHOOL

Teaching under supervision at least four days per week; group and individual conferences at college two days during each of two nine-week assignments; individual and group instruction; daily and long-view planning; unit teaching; classroom management, routine procedures; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program.

CLASSIFICATION: Required of juniors or seniors majoring in secondary school Foreign Languages

PREREQUISITE: Ed. 310. Passing grade in Eng. 101-102 (Effective Communication); satisfactory completion or exemption in Ex.Ed. 100 (speech clinic); grade of "C" or higher in Ed. 310, cumulative average and previous

semester average of "C" or higher; each student with an academic area of major study is required to maintain a better than "C" average (higher than 2.00) in that area as a prerequisite for student teaching and as a requirement for graduation; approval by Foreign Language Department chairman

CREDIT: Twelve semester hours—thirty (30) hours of teaching and conferences per week

ED. 414—THE TEACHING OF READING

Importance of reading in present day society, research in child development and learning and its implication for the teaching of reading; trends in the teaching of reading; developmental levels of reading; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading.

CLASSIFICATION: Elective for juniors and seniors

PREREQUISITE: Ed. 202 or equivalent

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 415—SEMINAR IN EARLY CHILDHOOD EDUCATION

Curriculum development for children from three to eight; current problems and research; instructional materials and procedures; equipment; school, home, and community relationships; evaluating children's progress: "action research" on individual school problems.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 416—SAFETY EDUCATION

Kinds and frequency of accidents; psychology in accident prevention; safety in home, school, shop, playground and community; water, traffic and fire safety; recreation safety; poisons and emergency treatment; teaching safety in the public schools.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 417—DRIVER EDUCATION

Behind-the-wheel instruction; instructing a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law, accident statistics; accident prevention; traffic engineering; negligence and liability; insurance interpretation; effects of alcohol; theory and maintenance of automobile; administration of the program.

CLASSIFICATION: Elective for juniors and seniors

PREREQUISITE: A good driving record (a licensed operator for at least two years)

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students. Required for certification to teach driver education in New York State

ED. 418—AUDIO-VISUAL EDUCATION

Audio-visual materials in teaching; audio-visual equipment; selecting, securing, and using films and other materials; audio-visual programs in the school; teacher and pupil-produced materials; photography.

CLASSIFICATION: Elective for sophomores, juniors and seniors

CREDIT: Three semester hours—four class hours

SPECIAL NOTE: May be elected by graduate students

ED. 419—METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL

School curriculum in the common branch subjects; selecting, organizing and presenting curriculum material; adapting the curriculum to the varying needs, interests, and abilities of pupils; evaluating pupil progress in terms of school objectives.

CLASSIFICATION: Elective for juniors and seniors

PREREQUISITE: Ed. 301 or equivalent

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 420—TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL

Objectives in an effective language arts program; factors that influence language growth; interrelationship of the language arts, skills of spelling, reading, speaking, writing, handwriting, listening; factors affecting creative writing, creative dramatics, choral speaking, and leisure reading; developmental language arts program; evaluation in a total language arts program.

CLASSIFICATION: Elective for seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students. Not to be taken for credit after completion of Ed. 202.

ED. 421—WORKSHOPS IN THE TEACHING OF READING IN THE ELEMENTARY SCHOOL

Objectives of an effective reading program; reading in relation to language arts; principles of child development and learning and their relation to reading; the developmental reading program; development

of reading skills; development of vocabulary; reading materials; evaluation of growth in and through reading.

CLASSIFICATION: Elective for normal school graduates and for students working for certification

CREDIT: Two semester hours—two class hours

ED. 423—*COMPARATIVE EDUCATIONAL SYSTEMS OF WESTERN EUROPE*

International living tour; approximately eight weeks spent in Western Europe; homestay with family in one country for three weeks; study and comparison of selected educational systems; visits to university, library, cultural, and historical centers.

CLASSIFICATION: Elective for seniors and graduate students

PREREQUISITE: Participants must meet entrance requirements of State University College at Buffalo, and must meet the standards applied by the State University of New York and the Experiment in International Living

CREDIT: Eight semester hours. By special arrangement, up to four hours of credit may be applied as Social Studies credit

SPECIAL NOTE: Permission of instructor to be obtained before enrollment in course

ED. 424—*PEOPLE AND INSTITUTIONS IN INDIA*

International living tour; approximately eight weeks spent in India; three-week homestay with an Indian family; study of family patterns, educational programs, and culture of India; visits to university, cultural, and historical centers.

CLASSIFICATION: Elective for seniors and graduate students

PREREQUISITE: Participants must meet entrance requirements of State University College, and must meet the standards applied by the State University of New York and the Experiment in International Living

CREDIT: Eight semester hours. By arrangement, up to four hours of credit may be applied as social studies credit.

SPECIAL NOTE: Permission of instructor to be obtained before enrollment in course

ED. 426—*SPECIAL PROJECT*

Research or investigation of a particular problem, to be planned and carried out by student, with consultation and guidance of instructor.

CLASSIFICATION: Elective for juniors and seniors

CREDIT: Three semester hours—three class hours

SPECIAL NOTE: May be elected by graduate students

ED. 495—*INDEPENDENT PROJECT OR STUDY*

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

Exceptional Children Education Division

Horace Mann, Director

Faculty: Bloustein, Condron, Dickson, Gallagher, Hess, Lawrence, E., Lawrence, T.,* Nikoloff, Olshin, Page, Reidell, Strauch, Thomas, D., Van Hattum, Wakshull, Winschel, Yormak.

This division provides courses which develop competencies necessary to work with children who present exceptional problems of learning. Graduates of this program receive the Bachelor of Science degree. In mental retardation, deaf, emotionally disturbed and physical handicap they receive certificates permitting them to teach in both the elementary schools and to teach children who have impairments in intelligence or general physical structure. In speech and hearing they receive a certificate permitting them to give speech and hearing therapy to children and adults in schools and clinics.

Students majoring in this division may specialize in one of these five fields.

1. Emotionally Disturbed**
2. Retarded Mental Development
3. Physical Handicap
4. Speech Pathology and Audiology
5. Deaf Education**

Applicants for this division must be able to meet the general requirements listed in this catalog under Admissions. A limited number of students with advanced standing, able to meet all general requirements, will be admitted each semester; they must complete a minimum of one year in residence, however, to qualify for graduation. Further, those students enrolled in Elementary Education interested in this specialization, may register in the Exceptional Children Education Division as freshmen or not later than their sophomore year.

There are often grants of financial assistance to students majoring in mental retardation and physical handicap from parent organizations and the State Education Department.

The division's professional program includes experiences which develop understandings, skills and attitudes needed in appraising the nature and origin of disabilities in children as well as the types of school adjustments that might be made to educate them. To enhance the theoretical phases of the curriculum the laboratory facilities of the College and the division are supplemented by those of the public schools, Meyer Memorial and Children's Hospitals, Roswell Park, Crippled Children's Guild, Psychiatric Center of Buffalo, West Seneca Institution for Retarded Children, and the Cerebral Palsy Center and Hearing and Speech Center of Buffalo. Several of these are affiliated with our college program in exceptional children.

* On leave, 1964-65

** In process

EXCEPTIONAL CHILDREN EDUCATION DIVISION CURRICULUM

CURRICULUM FOR MAJORS IN MENTAL RETARDATION AND PHYSICAL HANDICAP

FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ed. 101-102 Human Growth and Development	4	3	4	3
Ex.Ed. 101 Nature and Needs of Exceptional Children	—	—	4	3
S.S. 101-102 Man and His Institutions	3	3	3	3
Math. 203 Fundamental Principles of Mathematics	3	3	—	—
Phil. 104 Ways of Knowing	3	3	—	—
Eng. 101-102 Effective Communication	3	3	3	3
Or. 100 Orientation	1	0	—	—
P.Ed. 100 Physical Education Activities	2	1	2	1
Biol. 101-102 General Biology	4	3	4	3
Total Hours	23	19	20	16

SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 100 Essentials of Visual Art	3	3	—	—
Ed. 201-202 School and Society	3	3	4	3
Ex.Ed. 209 Psychology of Exceptional Children	4	3	—	—
*Concentration	3	3	6	6
Sci. 203-204 Man and His Natural Environment	4	3	4	3
Math. 204 Fundamental Principles of Mathematics	3	3	—	—
Mus. 100 Listener's Orientation to Music ..	—	—	3	3
(I.A. 305 or	—	—	—	—
Art 217	—	—	4	3
Total Hours	20	18	21	18

* "CONCENTRATION" is the major the student selects from any one of the following liberal arts fields: Social Studies, English, Math., Science.

CURRICULUM FOR MAJORS IN MENTAL RETARDATION

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ex.Ed. 301 Observation—Participation in Mental Retardation	—	—	9	3
Ed. 414 Teaching Reading	—	—	—	—
Ed. 418 Audio-Visual Aids	3	3	—	—
Ed. 419 Elementary Methods	—	—	—	—
Ed. 420 Teaching Language Art	—	—	—	—
Ed. 305 Observation—Participation with Typical Children	—	—	9	3
Ex.Ed. 403 Mental Measurement	4	3	—	—
Ex.Ed. 404 Curriculum Practices for the Mentally Retarded	4	3	—	—
Concentration	3	3	6	6
Elective	3	3	—	—
Eng. 301-302 Ideas of Man and His World in Literature	3	3	3	3
Total Hours	20	18	27	15

FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ed. 404 Practicum in El.Ed.	30	6	—	—
Ex.Ed. 418 Practicum in M.R.	30	6	—	—
Hist. 301 Ideas and Social Change	—	—	3	3
H.Ed. 204 Personal and Community Health	—	—	2	2
Geog. 305 General Geography	—	—	3	3
Concentration	—	—	6	6
Total Hours	60	12	14	14

CURRICULUM FOR MAJORS IN PHYSICAL HANDICAP

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ex.Ed. 417 Curriculum Practices for the Physically Handicapped	4	3	—	—
Ed. 414 Teaching Reading	—	—	—	—
Ed. 418 Audio-Visual Aids	3	3	—	—
Ed. 419 Elementary Methods	—	—	—	—
Ed. 420 Teaching Language Arts	—	—	—	—
Ed. 305 Observation—Participation with Typical Children	—	—	9	3
Ex.Ed. 403 Mental Measurement	4	3	—	—
Ex.Ed. 404 Curriculum Practices for the Mentally Retarded	4	3	—	—
Ex.Ed. 311 Observation—Participation with the Physically Handicapped	—	—	9	3
Concentration	3	3	6	6
Eng. 301-302 Ideas of Man and His World in Literature	3	3	3	3
Total Hours	21	18	27	15

FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ed. 404 Practicum in El.Ed.	30	6	—	—
Ex.Ed. 408 Practicum in Physically Handicapped	30	6	—	—
Hist. 301 Ideas and Social Change	—	—	3	3
H.Ed. 204 Personal and Community Health	—	—	2	2
Geog. 305 General Geography	—	—	3	3
Concentration	—	—	6	6
Total Hours	60	12	14	14

CURRICULUM FOR MAJORS IN SPEECH PATHOLOGY AND AUDIOLOGY

FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Art 200 Essentials of Art	3	2	—	—
Ed. 101-102 Human Growth and Development	4	3	4	3
S.S. 101-102 Man and His Institutions: Social, Economic, and Political	3	3	3	3
Math. 103 Mathematics and Modern Life	2	2	—	—
Phil. 104 Ways of Knowing	—	—	3	3
Eng. 101-102 Effective Communication	3	3	3	3
Ex.Ed. 101 Nature and Needs of Exceptional Children	—	—	4	3
Or. 100 Orientation	1	0	—	—
P.Ed. 100 Physical Education Activities	2	1	2	1
Biol. 101-102 General Biology	4	3	4	3
	—	—	—	—
Total Hours	22	17	23	19

SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Eng. 103 English Literature	3	3	—	—
Eng. 104 American Literature	—	—	3	3
Ex.Ed. 204 Science of Speech and Hearing	4	3	—	—
Ex.Ed. 205 Phonetics	4	3	—	—
Sci. 203-204 Man and His Natural Environment	4	3	4	3
Math. 210 Elements of Mathematics	3	3	—	—
Mus. 100 Listener's Orientation to Music ..	—	—	3	3
S.S.—(Selected from Elective Group A or B) ..	3	3	3	3
	—	—	—	—
Total Hours	21	18	13	12

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Elective (A-S)	3	3	3	3
Elective	3	3	—	—
Ex.Ed. 306 Speech Pathology	5	3	—	—
Ex.Ed. 307 Speech Pathology	—	—	4	3
Ex.Ed. 416 Stuttering	—	—	4	3
Ex.Ed. 414 Introduction to Audiology	5	3	—	—
Ex.Ed. 415 Speech Reading and Auditory Training	—	—	5	3
Eng. 301-302 Ideas of Man and His World in Literature	3	3	3	3
Geog. 305 General Geography	3	3	—	—
H.Ed. 204 Personal and Community Health ..	—	—	2	2
	—	—	—	—
Total Hours	22	18	21	17

FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Elective	3	3	—	—
Ex.Ed. 410 Psychology of Speech	3	3	—	—
Ex.Ed. 406 Public Speaking in Speech-Hearing	2	1	—	—
Ex.Ed. 402 Clinical Procedures and Organization of Schools and Clinics ..	—	—	18	8
Ex.Ed. 405 Practicum in Speech and Hearing	—	—	30	6
Ex.Ed. 412 Audiometry and Hearing Aids ..	5	3	—	—
Ex.Ed. 411 Seminar in Speech and Hearing ..	4	3	—	—
Hist. 301 Ideas and Social Change in Western Civilization	3	3	—	—
	—	—	—	—
Total Hours	20	16	48	14

EXCEPTIONAL CHILDREN EDUCATION COURSES

EX.ED. 100—STUDENT SPEECH CLINIC

Speech therapy for students found defective in speech production. Students enrolled must complete this course in order to be eligible for student teaching and graduation.

CLASSIFICATION: Open to all students

CREDIT: None

SPECIAL NOTE: Hours by arrangement

EX.ED. 101—NATURE AND NEEDS OF CHILDREN WHO PRESENT EXCEPTIONAL PROBLEMS OF LEARNING

Examination of the causes, characteristics and implications—educational, social and vocational—of children who are exceptional because of intelligence, physical development, behavior, speech and hearing. Observation one hour per week.

CLASSIFICATION: Required of freshmen in Exceptional Children

CREDIT: Three semester hours—four class hours

EX.ED. 204—SCIENCE OF SPEECH AND HEARING

Anatomy and physiology of the ear and the organs of speech beginning with embryological development; production and reception of spoken language. Observation in Speech and Hearing Clinic.

CLASSIFICATION: Required of sophomores in speech and hearing

CREDIT: Three semester hours—four class hours

EX.ED. 205—INTRODUCTION TO PHONETICS

Production and representation of English (American) speech sounds; application of phonetics to the correction of deviations in children's speech. Observation in Speech and Hearing Clinic.

CLASSIFICATION: Required of sophomores in Speech and Hearing

CREDIT: Three semester hours—four class hours

EX.ED. 209—PSYCHOLOGY OF EXCEPTIONAL CHILDREN

Study of common tendencies found in fields of mental retardation and physical handicap; characteristics and implications of tendencies are developed with view to enhancing understandings in these fields.

CLASSIFICATION: Required of sophomores in Mental Retardation and Physically Handicapped

PREREQUISITE: Ex.Ed. 101

CREDIT: Three semester hours—four class hours

EX.ED. 301—OBSERVATION AND PARTICIPATION IN MENTAL RETARDATION

Observation, classroom participation, class discussion and conference

with instructors; teacher-pupil relationships, selecting, organizing and presenting curriculum materials on different grade levels; evaluating pupil progress in classes for the mentally retarded.

CLASSIFICATION: Required for juniors in Mental Retardation

PREREQUISITE: Ex.Ed. 404

CREDIT: Three semester hours—nine class hours

EX.ED. 306—SPEECH PATHOLOGY

Introduction to the defects of speech; etiology and therapeutic procedures for treatment of functional and mild organic speech problems; observation and treatment of minor disorders. Laboratory two hours per week.

CLASSIFICATION: Required of juniors in Speech and Hearing

PREREQUISITE: Ex.Ed. 205

CREDIT: Three semester hours—five class hours

EX.ED. 307—SPEECH PATHOLOGY

Etiology and therapy of more severe speech defects particularly extensive organic problems; observation of diagnosis and treatment. Laboratory two hours per week.

CLASSIFICATION: Required of juniors in Speech and Hearing

PREREQUISITE: Ex.Ed. 306

CREDIT: Three semester hours—four class hours

EX.ED. 311—OBSERVATION AND PARTICIPATION IN PHYSICAL HANDICAP

Observation, classroom participation, class discussion, and conference with instructors; teacher-pupil relationships, selecting, organizing, and presenting curriculum materials on different grade levels; evaluating pupil progress in classes for the physically handicapped.

CLASSIFICATION: Required of juniors in Physically Handicapped

PREREQUISITE: Ex.Ed. 417

CREDIT: Three semester hours—nine class hours

EX.ED. 402—CLINICAL PROCEDURES AND ORGANIZATION AND ADMINISTRATION OF SCHOOL SPEECH AND HEARING PROGRAMS

Study of organization and administration of speech and hearing programs and clinical procedures in schools with participation in and observation of such programs.

CLASSIFICATION: Required of seniors in Speech and Hearing

PREREQUISITE: Eighteen hours in Speech and Hearing courses

CREDIT: Eight semester hours—all day, three days a week

EX.ED. 403—MENTAL AND EDUCATIONAL MEASUREMENT

Survey course examining general measurement and evaluation principles relative to instruments of capacity, achievement, interest patterns, attitudes, personality and adjustment; examination of elementary descriptive statistical concepts as they facilitate selection, administration, scoring and interpretation of standardized tests and construction of teacher-made instruments.

CLASSIFICATION: Required of juniors in emotionally disturbed, mental retardation and physical handicap

CREDIT: Three semester hours—four class hours

EX.ED. 404—CURRICULUM PRACTICES FOR THE MENTALLY RETARDED

Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and for teachers of regular classes who must provide adjustments for slow learning children.

CLASSIFICATION: Required of juniors in Mental Retardation and Physically Handicapped

PREREQUISITE: Ex.Ed. 209

CREDIT: Three semester hours—four class hours

EX.ED. 405—PRACTICUM IN SPEECH AND HEARING

Teaching under supervision of a public school speech and hearing therapist.

CLASSIFICATION: Required of all seniors in Speech and Hearing

PREREQUISITE: Eighteen hours in Speech and Hearing

CREDIT: Six semester hours—all day, five days a week

EX.ED. 406—PUBLIC SPEAKING IN SPEECH AND HEARING

Emphasis on the communication of speech and hearing information to lay and professional audiences.

CLASSIFICATION: Required of seniors in Speech and Hearing

CREDIT: One semester hour—two class hours

EX.ED. 408—PRACTICUM IN TEACHING CHILDREN WITH PHYSICAL HANDICAP

Student teaching under supervision in a special class for orthopedically handicapped children.

CLASSIFICATION: Required of seniors in Physically Handicapped

PREREQUISITE: Ex.Ed. 311

CREDIT: Six semester hours—all day, five days a week

EX.ED. 410—PSYCHOLOGY OF SPEECH

Consideration of speech as a communication code. Limits and safety factors in the code. Speech as used by individuals and groups, pathological breakdown in speech.

CLASSIFICATION: Required of seniors in Speech and Hearing

CREDIT: Three semester hours—three class hours

EX.ED. 411—SEMINAR IN SPEECH AND HEARING

Advanced clinical practice in speech and hearing therapy; investigation and application of recent research.

CLASSIFICATION: Required of seniors in Speech and Hearing

CREDIT: Three semester hours—four class hours

EX.ED. 412—AUDIOMETRY AND HEARING AIDS

Study and measurement of hearing; administration of individual and group audiometric examinations, interpreting audiograms; principles of construction, fitting and use of individual hearing aids.

CLASSIFICATION: Required of seniors in Speech and Hearing

PREREQUISITE: Ex.Ed. 414

CREDIT: Three semester hours—five class hours

EX.ED. 414—INTRODUCTION TO AUDIOLOGY

The clinical treatment of hearing problems particularly to assist the speech correctionist; hearing testing, hearing aid construction, and research in the field of audiology.

CLASSIFICATION: Required of juniors in Speech and Hearing

PREREQUISITE: Ex.Ed. 204

CREDIT: Three semester hours—five class hours

EX.ED. 415—SPEECH READING AND AUDITORY TRAINING

Principles and techniques of remedial procedures for hearing handicapped; examination of clinical practices; evaluation of recent research in field; practice work in speech reading and auditory training instruction.

CLASSIFICATION: Required of juniors in Speech and Hearing

PREREQUISITE: Ex.Ed. 414

CREDIT: Three semester hours—five class hours

EX.ED. 416—STUTTERING

Theoretical concepts related to etiology of stuttering and therapeutic approaches to the problem presented.

CLASSIFICATION: Required of seniors in Speech and Hearing

PREREQUISITE: Ex.Ed. 306

CREDIT: Three semester hours—five class hours

EX.ED. 417—CURRICULUM PRACTICES FOR THE PHYSICALLY HANDICAPPED

Organizing a school program for orthopedically handicapped children; selecting and evaluating suitable group and individual activities for the teaching of basic school subjects; observations of special classes for the crippled child.

CLASSIFICATION: Required of juniors in Physically Handicapped

PREREQUISITE: Ex.Ed. 209

CREDIT: Three semester hours—four class hours

EX.ED. 418—PRACTICUM IN TEACHING CHILDREN WITH RETARDED MENTAL DEVELOPMENT

Practice teaching under supervision in a special class for children with retarded mental development.

CLASSIFICATION: Required of seniors in Mental Retardation

PREREQUISITE: Ex.Ed. 301

CREDIT: Six semester hours—all day, five days a week

EX.ED. 419—TEACHING THE TRAINABLE RETARDED

Nature and needs of children, curriculum, methods and materials; special problems encountered in educating the trainable retarded child (below 50 IQ) in public day-school classes.

CLASSIFICATION: Required of juniors planning to teach trainable children; elective to majors in mental retardation and physical handicap

PREREQUISITE: Ex.Ed. 101

CREDIT: Three semester hours—four class hours

EX.ED. 420—SPEECH PROBLEMS OF CHILDREN

Types and causes of speech defects and disorders found in elementary school children; methods of treatment of minor disorders by the classroom teacher; some phonetic and speech science; observation of children presenting various speech problems.

CLASSIFICATION: All college elective

CREDIT: Three semester hours—three class hours

EX.ED. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

Home Economics Education Division

Margaret A. Grant, Director

Faculty: *Adams, Buddenhagen, Butler, Cawley, Clarke, Cragun, Douglas, Evenson, Fick, Kane, Meagher, O'Neil, Ostermeier, Rippie, Roudebush, Schasel, Schrader, Stewart, F., Stewart, R., Stoner, and Weaver, P.*

The Home Economics Division prepares students to teach Home Economics in the public schools of New York State. Graduates receive a Bachelor of Science degree and are qualified to teach in elementary, junior high, and senior high schools, and in adult education programs. A curriculum leading to the Master of Science degree is explained in the Graduate Catalog.

Students graduating from a high school or approved private secondary school in New York State, able to meet the general requirements of the College may apply for admission. Tests in foods and clothing are given to incoming students.

Students will need to purchase uniforms, fabrics, books and some miscellaneous supplies amounting to approximately \$130.00 per year in addition to the regular college fees.

Graduates teach clothing and costume design, foods and nutrition, and management of the home and its physical equipment. They teach girls and women to care for very young children, to understand the relations between the various members of the family, to bring about happy and harmonious living within the home, to recognize the importance of beauty in clothing and in the home. The influence of Home Economics extends beyond the classroom into the community where they serve as members of civic groups and committees interested in social improvements.

The Home Economics field is a rapidly growing area of education, creating a continuing need for teachers and providing opportunity for professional advancement to those prepared for it.

The four-year program prepares teachers who will be physically and mentally healthy, socially mature and effective, intelligent and informed in economic affairs, efficient vocationally and professionally, and cultured in gracious living.

Laboratory facilities are provided by the Home Economics Division in the areas of food preparation and service, nutrition, selection and construction of clothing, textiles, household equipment, housing and home furnishings, and child development and family life.

The College maintains an attractive, well-equipped residence, the Home Management House, located nearby where senior students live for a five-week period under faculty supervision to gain experience in the social and economic management of a home.

Home Economics students observe and participate in teaching one semester during their junior year. In the senior year, they teach for one semester in

pecially selected junior-senior high schools. During this time they gain maturing experience by residing in these communities.

The Home Economics Division is affiliated with the Merrill-Palmer Institute in Detroit, Michigan. Each year two seniors during the first semester, and two juniors during the second semester have the opportunity with students from many states and countries, to attend this school which provides intensive work in child development, parent education, social service work, and home and family living. Students are selected to attend this school by a faculty committee; they receive full credit toward their degree for work taken.

A provisional certificate is granted for a ten year period to graduates from this division. A permanent certificate is issued to those who finish an approved program of thirty hours of graduate study.

Applicants for admission to advance standing will be informed of the requirements for the degree upon evaluation of transcripts by the Registrar. A college student wishing to complete certification requirements only, should send transcripts to the Bureau of Certification, State Education Department, Albany, New York, for evaluation.

A student who, in any semester, desires to strengthen her professional preparation may plan a supplementary experience with her adviser for such enrichment as outlined in the supplementary experience forms, which are available in the Home Economics Office.

HOME ECONOMICS EDUCATION CURRICULUM

For Students Entering As of September 1964

FIRST YEAR (Group A)

First Semester

<i>Course Titles</i>	<i>Class Hours</i>	<i>Credit Hours</i>
S.S. 101 Man and His Institutions: Social, Economic and Political	3	3
English (Speaking)	3	3
Chem. 103 Chemistry Applied to Home Economics	4	3
H.Ec. 107 Clothing	5	3
OR		
H.Ec. 108 Introductory Foods and Nutrition	5	3
Psych. 101	4	3
H.Ec. 100 Introduction to Home Economics	1	1
Or. 100 Orientation	1	0
P.Ed. 100 Physical Education Activities	2	1
Total	23	17

Second Semester

<i>Course Titles</i>	<i>Class Hours</i>	<i>Credit Hours</i>
S.S. 102 Man and His Institutions: Social, Economic and Political	3	3
English (Writing)	3	3
Chem. 104 Chemistry Applied to Home Economics	4	3
H.Ec. 107 Clothing	5	3
OR		
H.Ec. 108 Introductory Foods and Nutrition	5	3
H.Ec. 109 Human Development and Family Relations	4	3
P.Ed. 100 Physical Education Activities	2	1
Total	21	16

FIRST YEAR (Group B)

First Semester

Course Titles	Class Hours	Credit Hours
S.S. 101 Man and His Institutions: Social, Economic and Political	3	3
English (Writing)	3	3
Chem. 104 Chemistry Applied to Home Economics	4	3
H.Ec. 107 Clothing	5	3
OR		
H.Ec. 108 Introductory Foods and Nutrition	5	3
H.Ec. 100 Introduction to Home Economics	1	1
Art	3	3
Or. 100 Orientation	1	0
P.Ed. 100 Physical Education Activities	2	1
	—	—
	22	17

Second Semester

Course Titles	Class Hours	Credit Hours
S.S. 102 Man and His Institutions: Social, Economic and Political	3	3
English (Speaking)	3	3
Chem. 104 Chemistry Applied to Home Economics	4	3
H.Ec. 107 Clothing	5	3
OR		
H.Ec. 108 Introductory Foods and Nutrition	5	3
Psych. 101 General Psychology	4	3
P.Ed. 100 Physical Education Activities	2	1
	—	—
	21	16

SECOND YEAR (Group A)

First Semester

Course Titles	Class Hours	Credit Hours
Mathematics	3	3
H.Ec. 206 Family Health and Home Nursing	3	2
H.Ec. 207 Textiles	4	3
OR		
H.Ec. 208 Human Nutrition	4	3
Ed. 203 Educational Psychology	3	3
Art	3	3
H.Ec. 209 Human Development and Family Relations	4	3
	—	—
Total	20	17

Second Semester

Course Titles	Class Hours	Credit Hours
Philosophy	3	3
Biol. 105 Biology for Home Economics Students	6	4
H.Ec. 207 Textiles	4	3
OR		
H.Ec. 208 Human Nutrition	4	3
H.Ec. 221 Housing the Family	4	3
OR		
H.Ec. 220 Household Equipment	4	3
OR		
Elective	3	3
Elective	3	3
	—	—
Total	19 or 20	16

SECOND YEAR (Group B)

First Semester

Course Titles	Class Hours	Credit Hours
Philosophy	3	3
Biol. 105 Biology for Home Economics Students	6	4
H.Ec. 207 Textiles	4	3
OR		
H.Ec. 208 Human Nutrition	4	3
H.Ec. 109 Human Development and Family Relations	4	3
Elective	3	3
Total	20	16

Second Semester

Course Titles	Class Hours	Credit Hours
Mathematics	3	3
H.Ec. 206 Family Health and Home Nursing	3	2
H.Ec. 207 Textiles	4	3
OR		
H.Ec. 208 Human Nutrition	4	3
Ed. 203 Educational Psychology	3	3
H.Ec. 209 Human Development and Family Relations	4	3
H.Ec. 220 Household Equipment	4	3
OR		
H.Ec. 221 Housing the Family	4	3
OR		
Elective	3	3
Total	20 or 21	17

THIRD YEAR (Group A)

First Semester

Course Titles	Class Hours	Credit Hours
English (Literature)	3	3
H.Ec. Ed. 321 Methods and Materials	7	5
H.Ec. 310 Economics for Consumers	3	3
OR		
Elective	3	3
Art 311 Design for the Individual and the Home	4	3
Elective	3	3
OR		
H.Ec. 307 Clothing, Design and Construction	6	3
OR		
H.Ec. 308 Advanced Food Preparation	5	3
Total	22 or 23	17

Second Semester

Course Titles	Class Hours	Credit Hours
English (Literature)	3	3
H.Ec. 220 Household Equipment	4	3
OR		
H.Ec. 221 Housing the Family	4	3
OR		
Elective	3	3
H.Ec. 309 Human Development and Family Relations	2	2
H.Ec. 307 Clothing, Design and Construction	6	3
OR		
H.Ec. 308 Advanced Food Preparation	5	3
OR		
Elective	3	3
Elective	3	3
Elective	3	3
Total	17-20	17

THIRD YEAR (Group B)

First Semester

Course Titles	Class Hours	Credit Hours
English (Literature)	3	3
H.Ec. 220 Household Equipment	4	3
OR		
H.Ec. 221 Housing the Family	3	3
OR		
Elective	3	3
H.Ec. 309 Human Development and Family Relations	2	2
H.Ec. 307 Clothing, Design and Construction	6	3
OR		
H.Ec. 308 Advanced Food Preparation	5	3
OR		
Elective	3	3
Elective	3	3
OR		
Art 311 Design for the Individual and the Home	4	3
Elective	3	3
Total	18-22	17

Second Semester

Course Titles	Class Hours	Credit Hours
English (Literature)	3	3
H.Ec. 321 Methods and Materials	7	5
H.Ec. 310 Economics for Consumers	3	3
OR		
Elective	3	3
Art 311 Design for the Individual and the Home	4	3
OR		
Elective	3	3
H.Ec. 207 Textiles	4	3
OR		
H.Ec. 208 Human Nutrition	4	3
OR		
Elective	3	3
Total	21-23	17

FOURTH YEAR (Group A)

First Semester

Course Titles	Class Hours	Credit Hours
H.Ec. 423 Student Teaching	20	10
H.Ec. 402 Home Management	20	3
Total	20	13

Second Semester

Course Titles	Class Hours	Credit Hours
H.Ec. 409 Human Development and Family Relations	2	2
Hist. 301 Ideas and Social Change in Western Civilization	3	3
Elective	3	3
OR		
H.Ec. 308 Advanced Food Preparation	5	3
OR		
H.Ec. 307 Clothing, Design and Construction	6	3
Elective	3	3
Elective	3	3
Elective	3	3
Total	17-20	17

FOURTH YEAR (Group B)

First Semester

Course Titles	Class Hours	Credit Hours
H.Ec. 409 Human Development and Family Relations	2	2
Hist. 301 Ideas and Social Change in Western Civilization	3	3
Elective	3	3
OR		
H.Ec. 307 Clothing, Design and Construction	6	3
OR		
H.Ec. 308 Advanced Food Preparation	5	3
Elective	3	3
Elective	3	3
Elective	3	3
Total	17-20	17

Second Semester

Course Titles	Class Hours	Credit Hours
H.Ec. 423 Student Teaching	20	10
H.Ec. 402 Home Management	20	3
Total	20	13

HOME ECONOMICS COURSES

For Students Entering as of September 1964

H.Ec. 100—INTRODUCTION TO HOME ECONOMICS

Orientation to Home Economics. Consideration of history, depth, and scope; exploration of career opportunities within the profession.

CLASSIFICATION: Required of Home Economics freshmen

CREDIT: One semester hour—one class hour

H.Ec. 107—CLOTHING

A course designed to help the student understand the sociological, psychological and economic aspects of clothing; recognize how color, design, texture and line are combined to create individuality; apply these principles in the solution of her own problems; and develop an understanding of some basic construction skills.

CLASSIFICATION: Required of Home Economics freshmen

CREDIT: Three semester hours—five class hours

H.Ec. 108—INTRODUCTORY FOODS AND NUTRITION

Basic principles of planning, purchase, preparation, and the service management of family meals with emphasis upon nutritional aspects. Basic preparation techniques of culturally important foods in relation to science and art.

CLASSIFICATION: Required of Home Economics freshmen

CREDIT: Three semester hours—five class hours

H.Ec. 109—HUMAN DEVELOPMENT AND FAMILY RELATIONS—CONCEPTION THROUGH THE PRE-SCHOOL YEARS

Individual development from conception through the pre-school years within the family setting. Family relationships during the beginning families: expectant phase, childbearing and pre-school family stages of the family life cycle.

CLASSIFICATION: Required of Home Economics freshmen or sophomores

PREREQUISITE: Psych. 101—Introductory Psychology and S.S. 101-102—Man and His Institutions

CREDIT: Three semester hours—four class hours

H.Ec. 207—TEXTILES

A study of plant, animal and synthetic fibers and fabrics as they relate to care, use and consumer satisfaction.

CLASSIFICATION: Required of Home Economics sophomores. May be elected by students from other Divisions.

CREDIT: Three semester hours—four class hours

H.Ec. 208—HUMAN NUTRITION

The science of foods and nutrition in relation to health and disease, and the process by which the nutrients function in the human body.

CLASSIFICATION: Required of Home Economics sophomores

PREREQUISITE: Chem. 104

CREDIT: Three semester hours—four class hours

H.Ec. 209—HUMAN DEVELOPMENT AND FAMILY RELATIONS—SCHOOL AGE THROUGH THE ADOLESCENT YEARS

Individual development from five years through adolescence in the family and community. Family relationships during the families with school children and families with teenagers, stages of the family life cycle.

CLASSIFICATION: Required of all Home Economics students

PREREQUISITE: H.Ec. 109

CREDIT: Three semester hours—four class hours

H.Ec. 220—HOUSEHOLD EQUIPMENT

The study of materials and processes used in the manufacture of household equipment; problems of selection, use, arrangement and safety for satisfying home living.

CLASSIFICATION: Required of Home Economics students

CREDIT: Three semester hours—four class hours

H.Ec. 221—HOUSING THE FAMILY

Study of individual and family needs and values in the selection of shelter; family spending patterns; design, location, fundamental equipment and furnishings of the home.

CLASSIFICATION: Required of Home Economics students

PREREQUISITE: Three semester hours of Art

CREDIT: Three semester hours—four class hours

H.Ec. 307—CLOTHING—DESIGN AND CONSTRUCTION

Creative use of commercial patterns; emphasizing principles of design, fitting and construction; terminating in finished garments.

CLASSIFICATION: Required of Home Economics students

PREREQUISITES: H.Ec. 107 and H.Ec. 207

CREDIT: Three semester hours—six class hours

H.Ec. 308—ADVANCED FOOD PREPARATION

Scientific principles and techniques of food preparation with specific emphasis on baked products, meats, fats, oils, and sugar cookery. Some development of experimental techniques.

CLASSIFICATION: Required of Home Economics students

PREREQUISITES: H.Ec. 108 and H.Ec. 208

CREDIT: Three semester hours—five class hours

*H.Ec. 309—HUMAN DEVELOPMENT AND FAMILY RELATIONS—
YOUNG ADULTHOOD THROUGH OLD AGE*

Individual development from maturity through aging. Family relationships through the families as launching centers, families in the middle years, and aging family stages of the family life cycle.

CLASSIFICATION: Required of Home Economics students

PREREQUISITES: H.D. & F.R. or Ed. 101-102 and S.S. 101-102

CREDIT: Two semester hours—two class hours

H.Ec. 310—ECONOMICS FOR CONSUMERS

Personal and family financial planning in relation to economic conditions; current problems of consumers; evaluation of aids for consumers.

CLASSIFICATION: Required of Home Economics students

PREREQUISITE: Econ. 201

CREDIT: Three semester hours—three class hours

H.Ec. 321—METHODS AND MATERIALS

Aspects of curriculum in both general and home economics education; principles of learning, teaching, evaluating; techniques in selecting, organizing, and using instructional materials; observation and participation in selected schools. Cumulative average of "C" is a prerequisite to H.Ec. 423.

CLASSIFICATION: Required of Home Economics juniors

PREREQUISITE: H.Ec. 109, H.Ec. 209, Psych. 101, and Ed. 203

CREDIT: Five semester hours—seven class hours

H.Ec. 402—HOME MANAGEMENT

Principles of effective home management and their application in a living situation. Residence in the home management house for a five-week period. Students defray own expenses. Emphasis is upon the process of management and inter-relationships of the utilization of human and material resources toward achieving personal and family goals.

CLASSIFICATION: Required of Home Economics seniors

PREREQUISITE: H.Ec. 208 and H.Ec. 310

CREDIT: Three semester hours—eighteen class hours

*H.Ec. 409—HUMAN DEVELOPMENT AND FAMILY RELATIONS—
THE INDIVIDUAL AND FAMILY IN SOCIETY AND
CULTURE*

Historical and comparative study of American and world families. Cultural and social variation in family organization, community relationships, and family and child-rearing practices.

CLASSIFICATION: Required of Home Economics students; elective for students in other Division

PREREQUISITE: H.Ec. 209 or Ed. 101-102 and S.S. 101-102

CREDIT: Two semester hours—two class hours

H.Ec. 420—HOUSING AND THE COMMUNITY

Study of the housing supply, needs, and research related to the area. The place of government in the housing; housing design, urban renewal, community controls.

CLASSIFICATION: Elective for Home Economics juniors or seniors; others by permission of instructor

PREREQUISITE: H.Ec. 221

CREDIT: Three semester hours—three class hours

H.Ec. 423—STUDENT TEACHING

Student teaching experience in the New York State program for home economics education; teaching experience required in two co-operating schools; on campus work periods for consideration of problems in teaching; teacher ethics, placement and professional advancement, graduate programs.

CLASSIFICATION: Required of Home Economics seniors

PREREQUISITE: H.Ec. Ed. 321 with a grade of "C" or higher; cumulative average of "C" or higher in college courses

CREDIT: Ten semester hours—twenty class hours per week

H.Ec. 424—ADULT EXPERIENCE IN HOME ECONOMICS

An introductory course in adult experience in Home Economics. Consideration of the nature, scope, organizational procedures, methods, materials for teaching adults and out-of-school youth.

CLASSIFICATION: Elective for Home Economics juniors and seniors

PREREQUISITE: H.Ec. 309

CREDIT: Three semester hours—three class hours

H.Ec. 425—ADVANCED CLOTHING

Application of principles of costume selection, design and advanced construction techniques.

CLASSIFICATION: Elective for Home Economics juniors and seniors

CREDIT: Three semester hours—five hours per week

*H.Ec. 426—FOOD DEMONSTRATION AND MEALS FOR LARGER
THAN FAMILY GROUPS*

Techniques of demonstrations related to food preparation and nutrition; preparation and service for special occasions and groups other than family size; education program in school lunch, readings in nutrition.

CLASSIFICATION: Elective for Home Economics juniors and seniors

CREDIT: Three semester hours—five class hours

H.Ec. 427—DRAPING AND FLAT PATTERN DESIGN

Alteration of patterns to adapt them to individual needs; designing and modeling garments, using draping and flat patterns methods.

CLASSIFICATION: Elective for Home Economics juniors and seniors

CREDIT: Three semester hours—five class hours

H.Ec. 428—MEAL MANAGEMENT

Family meal planning, preparation, and service in relation to consumer economics, current nutrition knowledge, time and energy management, aesthetic considerations, and regional, racial and religious food customs.

CLASSIFICATION: Elective for Home Economics juniors and seniors

CREDIT: Three semester hours—five class hours

H.Ec. 429—HOME ECONOMICS AND INTERNATIONAL EDUCATION

An exploratory course to increase understanding of the role of Home Economics in world-wide education. Investigation of Home Economics programs in underdeveloped countries, contribution of private and government agencies to international service and education, study of Home Economics programs overseas as sponsored by colleges and universities in the United States. Consideration of opportunities for service abroad by home economists.

CLASSIFICATION: Open to upper division undergraduates and to graduate students. Additional work is required for graduate work

CREDIT: Three semester hours—three class hours

H.Ec. 430—HUMAN DEVELOPMENT AND FAMILY RELATIONS—ISSUES OF THE MODERN AMERICAN FAMILY

Current educational, psychological and social issues and concerns of the modern American family examined and related to changing cultural values.

CLASSIFICATION: Elective for Home Economics students and for students in other Divisions

CREDIT: Three semester hours—three class hours

H.Ec. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

Industrial Arts Education Division

Sherman F. Dreyer, Director

Faculty: Allen, Brooks,* Brown, K., Brueckman, Callan, Capen, Capiello, Chapman, Cook, Cridge, Elsie, Fontana, Hall, Heintz, Hoefert, Kasprzyk,* Keroack, Kirkwood, Levi, Lewis, Lopes, Love, Meyer, Miller, R., Mooney, Neuthardt, Nostrant, Pace, Palmetier, Poleszak, Pollock, Romaniuk, Russell, Scofield, Stafford, Steiger, Stewart, J., Stillman, Trudeau, Waagen, Weaver, Zielinski

Graduates of the Industrial Arts Education Division receive a Bachelor of Science degree and are certified to teach Industrial Arts in the elementary and secondary schools of New York State.

The curriculum deals with the tools, materials, processes, products and occupations of the principal industries. Basic courses are required in drafting, metal, textile, graphic arts, electricity, wood, ceramics and transportation; advanced elective courses permit concentration in two or more areas.

The professional phase of the curriculum includes courses in child growth and development, teaching methods, a period of observation of teaching, and two nine-week periods of student teaching in selected schools.

The influence of industry on American life has added increased importance to the teaching of Industrial Arts. Graduates teach students in the public schools about industry: how it is organized; how it operates; its tools, materials, processes, products, occupations and the problems of life it creates. Industrial Arts teachers inform students regarding the intelligent use of industrial goods and services, and help many of them select careers, and aid others to develop wholesome recreational pursuits.

Many Industrial Arts graduates teach in adult education programs; some enter supervisory and administrative positions in public schools. A graduate program leading to a Master of Science degree prepares students for additional professional advancement.

Applicants must meet the general admission requirements of the College. Preference will be shown those who have two units of high school mathematics (including elementary algebra) and one unit each of physics and chemistry.

A limited number of transfer students, including teachers in other fields wishing to extend their certificates to include Industrial Arts, may be admitted. Courses taken in accredited institutions will be appraised in terms of the requirements of this division and the State Education Department Certification Bulletin.

* On Leave, 1964-65

INDUSTRIAL ARTS EDUCATION CURRICULUM

Students entering as freshmen prior to January 1, 1962, should refer to the 1961-62 General Catalog for the course listings by years of the curriculum. Students entering January 1, 1962, and thereafter, will follow the year by year course sequences as listed below.

FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Art 111 Design	5	2	—	—
Phil. 104 Ways of Knowing	3	3	—	—
Eng. 101 Effective Communication	3	3	—	—
I.A. 103 Mechanical Drawing	5	2	—	—
I.A. 102 Woodwork	10	4	—	—
Math. 102 General Mathematics	3	3	—	—
P.Ed. 100 Physical Education Activities	2	1	—	—
Or. 100 Orientation	1	0	—	—
Art 112 Design	—	—	5	2
Eng. 102 Effective Communication	—	—	3	3
I.A. 104 Mechanical Drawing	—	—	5	2
I.A. 106 Metalwork	—	—	10	4
I.A. 111 Introduction to Industrial Arts Education	—	—	3	2
Math. 104 Applied Mathematics	—	—	3	3
P.Ed. 100 Physical Education Activities	—	—	2	1
	—	—	—	—
Total Hours	32	18	31	17

SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Ed. 103 Human Growth and Development	4	3	—	—
S.S. 101 Man and His Institutions	3	3	—	—
I.A. 203 Electricity	10	4	—	—
I.A. 206 Ceramics	10	4	—	—
Ed. 104 Human Growth and Development	—	—	4	3
S.S. 102 Man and His Institutions	—	—	3	3
I.A. 208 & 209 Graphic Arts	—	—	10	4
I.A. 207 Textiles	—	—	10	4
Eng. 301 Ideas of Man and His World in Literature	—	—	3	3
Total Hours	27	14	30	17

DIVISION A (Junior Teaching Section)

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
I.A. 302 Power Technology or I.A. 303 Plastics Technology	10	4	—	—
I.A. 306 Principles and Practices of Indus- trial Arts	7	3	—	—
Advanced Technical Course	7	3	—	—
Elective	3	3	—	—
Phy. 103 Physics	4	3	—	—
FIRST NINE WEEKS				
I.A. 310 Student Teaching	—	—	30	7
SECOND NINE WEEKS				
I.A. 411 Student Teaching	—	—	30	8
	—	—	—	—
Total Hours	31	16	30	15

FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class	Credit	Class	Credit
	Hours	Hours	Hours	Hours
Phy. 104 Physics	4	3	—	—
Chem. 105 Chemistry	4	3	—	—
Advanced Technical Course	7	3	—	—
I.A. 412 Laboratory in Industrial Arts Teaching	7	3	—	—
Art 315 Design	5	2	—	—
Eng. 302 Ideas of Man and His World in Literature	3	3	—	—
Chem. 106 Chemistry	—	—	4	3
Advanced Technical Course	—	—	7	3
Advanced Technical Course	—	—	7	3
Hist. 301 Ideas and Social Change	—	—	3	3
Elective	—	—	4	4
	—	—	—	—
Total Hours	30	17	25	16

DIVISION B (Senior Teaching Section)

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
I.A. 302 Power Technology or I.A. 303 Plastics Technology	10	4	—	—
Phy. 103 Physics	4	3	—	—
Advanced Technical Course	7	3	—	—
Advanced Technical Course	7	3	—	—
Elective	3	3	—	—
Phy. 104 Physics	—	—	4	3
Chem. 105 Chemistry	—	—	4	3
Eng. 302 Ideas of Man and His World in Literature	—	—	3	3
Art 315 Design	—	—	5	2
I.A. 306 Principles and Practices of Indus- trial Arts	—	—	7	3
Advanced Technical Course	—	—	7	3
Advanced Technical Course	—	—	—	—
Total Hours	31	16	30	17

FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
FIRST NINE WEEKS				
I.A. 310 Student Teaching	30	7	—	—
SECOND NINE WEEKS				
I.A. 411 Student Teaching	30	8	—	—
I.A. 412 Laboratory in Industrial Arts Teaching	—	—	7	3
Advanced Technical Course	—	—	7	3
Chem. 106 Chemistry Applied to Industrial Arts	—	—	4	3
Hist. 301 Ideas and Social Change	—	—	3	3
Elective	—	—	4	4
Elective	—	—	—	—
Total Hours	30	15	25	16

INDUSTRIAL ARTS COURSES

I.A. 102—WOODWORK

Basic operations and processes in the use of hand tools and power equipment; elements of good design; correct construction techniques; suitable wood finishing methods; understanding of industrial practices; student planning; care and maintenance of equipment.

CLASSIFICATION: Required of Industrial Arts freshmen

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours

I.A. 103—TECHNICAL DRAWING

Sketching, shape description, size description, multiview projection, auxiliaries, rotations, sections, and pictorial drawings.

CLASSIFICATION: Required of Industrial Arts freshmen

CREDIT: Two semester hours—five class hours

I.A. 104—TECHNICAL DRAWING

Threads, fasteners, working drawings, developments, intersections, cams, gears.

CLASSIFICATION: Required of Industrial Arts freshmen

PREREQUISITE: I.A. 103

CREDIT: Two semester hours—five class hours

I.A. 106—METALWORK

Fundamentals of foundry work, sheet metal, art metal, oxyacetylene welding, brazing, silver soldering, forging, and heat treatment; machine tool operation on lathes, milling machines, shaper, band saw, surface grinder, and necessary bench work; related lessons in metal work.

CLASSIFICATION: Required of Industrial Arts freshmen

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours credit

I.A. 111—INTRODUCTION TO INDUSTRIAL ARTS EDUCATION

Purposes of education; Industrial Arts in general education; Teaching Industrial Arts; philosophy and objectives; characteristics needed for teaching.

CLASSIFICATION: Required of Industrial Arts freshmen

CREDIT: Two semester hours—three class hours

I.A. 203—ELECTRONICS

Basic electrical and electronic principles; generation, transmission, and use of electric power; electro-chemistry; transportation and commu-

nication; operation, service, and repair of electrical devices and appliances; experimental circuit work and construction of projects suitable for the junior-senior high school.

CLASSIFICATION: Required of Industrial Arts sophomores

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours credit

I.A. 205—SMALL STRUCTURE PLANNING

Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of dwellings; materials, equipment, and methods of construction.

CLASSIFICATION: Elective for Industrial Arts and Art Education students

CREDIT: Three semester hours—four class hours and assigned field trips

I.A. 206—CERAMICS

Materials, processes and products of the ceramic field; clay preparation; mold making, slip casting; throwing and turning; tile making; decorating and glazing; firing.

CLASSIFICATION: Required of Industrial Arts sophomores. Elective for others

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours credit

I.A. 207—TEXTILES

Fibers, processes and products of the textile industry; weaving, dyeing; surface treatment; and finishing of fabrics.

CLASSIFICATION: Required of Industrial Arts sophomores. Elective for others.

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours credit

I.A. 208—GRAPHIC ARTS

Layout and copy preparation, paper and papermaking, general and process photography, photo-offset platemaking, offset litho presswork, screen process printing, duplicating methods.

CLASSIFICATION: Required of Industrial Arts sophomores

CREDIT: Two semester hours—five class hours

SPECIAL NOTE: I.A. 208 and I.A. 209 should be taken concurrently

I.A. 209—GRAPHIC ARTS

Relief and intaglio printing, typographic layout and design, type composition, imposition and presswork, bindery, autographic platemaking.

CLASSIFICATION: Required of Industrial Arts sophomores

CREDIT: Two semester hours—five class hours

SPECIAL NOTE: I.A. 208 and I.A. 209 should be taken concurrently.

I.A. 302—POWER TECHNOLOGY

Principles of operation, design and function of power systems employing various types of engines; mechanisms involved in the development, transmission and control of power with an emphasis on broad understanding.

CLASSIFICATION: Elective for Industrial Arts juniors

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours credit

I.A. 303—PLASTICS TECHNOLOGY

Fundamentals of injection, compression, transfer, rubber, and blow molding; heat sealing; vacuum forming; casting and spraying of foams; welding of plastics; properties of polymers and elastomers; mold construction.

CLASSIFICATION: Elective for Industrial Arts juniors

CREDIT: Four semester hours—ten class hours

SPECIAL NOTE: When offered in Summer Session, five semester hours credit

I.A. 304—GRAPHIC ARTS

Advanced study of graphic arts processes; design, layout, four color printing in letter press; experimentation in graphic arts applicable to junior and senior high school Industrial Arts.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 208, I.A. 209

CREDIT: Three semester hours—seven class hours

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 305—CREATIVE ARTS FOR MENTALLY RETARDED CHILDREN

Instruction in the manual skills needed by children who present exceptional problems of learning; experience in the techniques needed in making job analyses in the fields in which exceptional children find employment.

CLASSIFICATION: For Exceptional Children majors in Mental Retardation and Physical Handicap

CREDIT: Three semester hours—four class hours

I.A. 306—PRINCIPLES & PRACTICES OF INDUSTRIAL ARTS

Designed to prepare student for student teaching experience; study of characteristics of good teachers, methods of teaching, organizing instructional material, lesson planning, actual teaching, visual aids, behavior and discipline problems, objective test construction and study of Student Teacher Guide.

CLASSIFICATION: Required of Industrial Arts juniors

PREREQUISITE: I.A. 111, Ed. 103, Ed. 104

CREDIT: Three semester hours—seven class hours

I.A. 307—TECHNICAL DRAWING AND GRAPHICS

Advanced study in technical sketching, graphics, working drawing, design drafting in selected areas of technology, reproductions, and contemporary drafting practices.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 103-104

CREDIT: Three semester hours—seven class hours

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 308—TEXTILES

Advanced work in textile design, fiber preparation, dyeing, weaving, and surface decoration; textile testing, both physical and chemical.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 207

CREDIT: Three semester hours—seven class hours

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 309—WOODWORKING

Machine woodworking, general production practices; development of higher standards of skills; advanced cabinet making, with projects and problems involving difficult processes in wood turning, millworking, wood finishing; study of equipment and shop planning; maintenance and repair of woodworking machinery.

CLASSIFICATION: Elective for Industrial Arts juniors and seniors

PREREQUISITE: I.A. 102

CREDIT: Three semester hours—seven class hours

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 310—STUDENT TEACHING AND CONFERENCE

Full-time assignment in junior or senior high school with a master teacher, guidance of a college staff member; emphasis on acquiring

ability and experience in organizing instructional materials, devising and administering classroom procedures, preparing lesson plans, and presenting lessons and demonstrations.

CLASSIFICATION: Required of all Industrial Arts students

PREREQUISITE: Junior standing in Industrial Arts curriculum, cumulative average of 2.00 or higher. Cumulative average in Industrial Arts courses of 2.00 or higher, I.A. 306

CREDIT: Seven semester hours—nine weeks

I.A. 313—ELECTRONICS

Advanced study of general electricity with emphasis on alternating current theory; electronic test equipment; service, repair and construction of complex A.C. devices and projects; service, repair and construction of radio receivers and electronic equipment.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 203

CREDIT: Three semester hours—seven class hours

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 314—METALWORK

Advanced study of metal working processes, fine tool and instrument making, heat treatment, jewelry making, repousse, operation of universal grinder, surface grinder, helical milling, gear cutting, internal threading and boring, layout and inspection techniques, individual student problems.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 106

CREDIT: Three semester hours—seven class hours

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 315—CERAMICS

Study in selected areas; hand building; performance on the potter's wheel; mass production methods; decoration; body and glaze compositions; kilns and firing

CLASSIFICATION: Elective for Industrial Arts students and others with appropriate background

PREREQUISITE: I.A. 206

CREDIT: Three semester hours—seven class hours per week

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 316—POWER TECHNOLOGY

Principles of operation, design, function of power systems employing various types of engines; mechanisms involved in the development, transmission and control of power with emphasis on dynamic analysis of specific units and their application.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 302

CREDIT: Three semester hours—seven class hours per week

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 409—ELECTRONICS

Circuit analysis, electronic instrumentation, and electronics techniques. Provides advanced study of electrical and electronic instruments and equipment. Familiarizes the student with the instruments used in the present state of the art, operating principles and applications. The application of instrumentation to enlighten demonstration techniques in the electrical or electronics field.

CLASSIFICATION: Elective for Industrial Arts students

PREREQUISITE: I.A. 203 and I.A. 313

CREDIT: Three semester hours—seven class hours per week

SPECIAL NOTE: When offered in Summer Session, four semester hours credit

I.A. 411—STUDENT TEACHING AND CONFERENCE

Full-time assignment in junior or senior high schools with a master teacher, guidance of college staff member; emphasis on student development to assume total responsibility for teaching, planning, keeping records on materials, and equipment, evaluation of pupil progress, etc.

CLASSIFICATION: Required of Industrial Arts students

PREREQUISITE: Senior standing in Industrial Arts curriculum, cumulative average of 2.00 or higher, cumulative average in Industrial Arts courses of 2.00 or higher. I.A. 306, I.A. 310

CREDIT: Eight semester hours—nine weeks

I.A. 412—LABORATORY OF INDUSTRIAL ARTS TEACHING

Appraisal of the student teaching experience; the teacher and the profession; responsibilities as consultant, supervisor, core-resource person, and specialist; general shop organization and administration; specific planning and preparation for a particular teaching position; planning for and participating in professional meetings, conferences and workshops.

CLASSIFICATION: Required of Industrial Arts seniors

PREREQUISITE: I.A. 310 and I.A. 411

CREDIT: Three semester hours—seven class hours

I.A. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

SECONDARY EDUCATION (GRADES 7-12)

The curriculum for Secondary Education provides for all aspects of the professional program as well as specialization in English, Foreign Languages (French or Spanish), Mathematics, Sciences (Biology, Chemistry, Earth Science, or Physics) and Social Studies.

The program in secondary English prepares teachers of English and American Literature and the English language, both oral and written, and advisers of student groups interested in journalism, debating and dramatics. Thirty semester hours of English are required, beyond the general-liberal required English courses.

The program in secondary French or Spanish requires 30 semester hours in the major language. Additional elective offerings are available in German, Italian, Latin and Russian.

The program in secondary Mathematics prepares for teaching the mathematics of grades 7-12. It requires as undergraduate study twelve semester hours of Analytic Geometry and Calculus and three semester hours each of Modern Algebra and Modern Geometry. The student selects courses from the mathematics electives to fulfill the remainder of the total thirty-hour requirement in mathematics.

The program in secondary Science prepares teachers of Biology, Chemistry, Earth Science, and Physics. One year of study is required in Biology, Chemistry, Earth Science, Physics and Mathematics. Additional study in one of the sciences is also required.

The program in secondary Social Studies requires at least 39 semester hours of work in addition to S.S. 101, 102 and Hist. 301. This includes 6 hours in United States history, 6 hours in European history, 6 hours in Geography, 3 hours in the Geography or History and Government of New York State, and 6 hours in each of three of the following: Anthropology, Economics, History other than United States or European, Political Science, Sociology.

Students completing the requirements of the four-year Secondary Education program will be certified provisionally to teach in grades seven through twelve. The certificate will be made permanent when the requirements of the Fifth Year Program of study are completed. The fifth year must be completed within five years.

SECONDARY EDUCATION CURRICULUM

ENGLISH MAJOR

FIRST YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
S.S. 101	Man and His Institutions: Social, Economic and Political	3	3
Math. 103	Mathematics and Modern Life	3	3
Eng. 101	Effective Communications	3	3
Sci. 203	Man and His Natural Environment	4	3
P.Ed. 100	Physical Education Activities	2	1
Or. 100	Orientation	1	0
Eng. 103	English Literature	3	3
Total		19	16

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
S.S. 102	Man and His Institutions: Social, Economic and Political	3	3
Eng. 102	Effective Communications	3	3
Sci. 204	Man and His Natural Environment	4	3
P.Ed. 100	Physical Education Activities	2	1
S.S. Group A:—select one—		3	3
Hist. 201—Social and Intellectual History of the American People to 1900			
Hist. 202—Political and Economic Growth of the U.S. to 1900			
Hist. 203—U.S. in the Twentieth Century			
Eng. 104	American Literature	3	3
Total		18	16

SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 103	Human Growth and Development	4	3
Phil. 104	Ways of Knowing	3	3
Eng. 201	Advanced Composition	3	3
Eng. 205	World Literature	3	3
Elective in field of emphasis ¹		3	3
Elective in Science		4	3
Total		20	18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 104	Human Growth and Development	4	3
Eng. 202	Public Speaking	3	3
Eng. 213	Secondary School Literature	3	3
Elective in field of emphasis ¹		3	3
Elective in Science		4	3
Elective in Geography, Art or Music ²		3-4	3
Total		20-21	18

¹ Student must select either Social Studies, Foreign Language, or Speech as a field of emphasis within the English major. Social Studies emphasis requires the taking of 9 additional hours of electives in Social Studies; Foreign Language emphasis requires the taking of 9 additional hours in Foreign Language; Speech emphasis requires the taking of English 200 in the first semester of the Second Year, English 207 in the second semester of the Second Year, and an English elective in the second semester of the Fourth Year, for a total of 9 hours.

² Student must take three hours of Geography and six hours of Art and/or music, electing his courses from the following:

Art 109 Contemporary Art (2)	Music 200 American Folk Music (3)
Art 211 History of Art I (2)	Music 201 Afro-American Music (3)
Art 442 Scenography I (2)	Music 320 Music in Living (3)
Art 215 Arts in Living (4)	Music 403 Dramatic Music (3)
Music 100 The Listener's Orientation to Music (3)	Music 404 The Art of Enjoying Music (3)

THIRD YEAR
Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Eng. 301	Ideas of Man and His World in Literature	3	3
Hist. 305	History of England	3	3
Eng. 315	Shakespeare	3	3
Eng. 306	Secondary School Speech Activities	3	3
Ed. 306	Teaching English in Secondary School	4	3
Total		16	15

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Ed. 406	Practicum in Teaching English	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

FOURTH YEAR
Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Eng. 302	Ideas of Man and His World in Literature	3	3
Eng. 312	Contemporary Literature	3	3
Eng. 320	Oral Interpretation of Literature	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Elective in	Geography, Art or Music	3-4	3
Elective	.....	3	3
Total		18-19	18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Elective in Social Studies		3	3
Elective in Geography, Art or Music		3-4	3
Elective in field of emphasis		3	3
Electives		6	6
Total		15-16	15

THIRD YEAR
Senior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Eng. 301	Ideas of Man and His World in Literature	3	3
Eng. 320	Oral Interpretation of Literature	3	3
Eng. 315	Shakespeare	3	3
Eng. 306	Secondary School Speech Activities	3	3
Elective	.....	3	3
Elective in Social Studies		3	3
Total		18	18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Eng. 302	Ideas of Man and His World in Literature	3	3
Hist. 305	History of England	3	3
Eng. 312	Contemporary Literature	3	3
Ed. 306	Teaching English in Secondary School	4	3
Elective in Geography, Art or Music		3-4	3
Total		16-17	15

FOURTH YEAR
Senior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Ed. 406	Practicum in Teaching English	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i> <i>Hours</i>	<i>Credit</i> <i>Hours</i>
Hist. 301	Ideas and Social Chinge in Western Civilization	3	3
Elective in field of emphasis		3	3
Elective in Geography, Art or Music		3-4	3
Electives		6	6
Total		15-16	15

SECONDARY EDUCATION CURRICULUM

FRENCH MAJOR

FIRST YEAR

<i>Course Titles</i>		<i>First Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
S.S. 101	Man and His Institutions	3	3
Art 215	Arts in Living	4	4
Eng. 101	Effective Communication	3	3
Sci. 203	Man and His Natural Environment	4	3
P.Ed. 100	Physical Education Activities	2	1
Or. 100	Orientation	1	0
Fr. 201	Intermediate French	3	3
Total		20	17

<i>Course Titles</i>		<i>Second Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
S.S. 102	Man and His Institutions	3	3
Eng. 102	Effective Communication	3	3
Sci. 204	Man and His Natural Environment	4	3
P.Ed. 100	Physical Education Activities	2	1
Phil. 104	Ways of Knowing	3	3
Fr. 202	Intermediate French	3	3
Total		18	16

SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
Ed. 103	Human Growth and Development	4	3
Eng. 103	English Literature		
OR			
Eng. 104	American Literature	3	3
Fr. 301	French Composition and Conversation	3	3
Fr. 307	History of French Literature	3	3
Elective	.....	3	3
Science or Mathematics Elective	.....	3-4	3
Total		19-20	18

<i>Course Titles</i>		<i>Second Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
Ed. 104	Human Growth and Development	4	3
Math. 103	Mathematics in Modern Life	3	3
Social Science Elective	.....	3	3
Fr. 306	French Civilization	3	3
Fr. 308	History of French Literature	3	3
Science or Mathematics Elective	.....	3-4	3
Total		19-20	18

THIRD YEAR

Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
Ed. 310	Methods and Materials in Teaching Foreign Language in the Secondary Schools	4	3
Eng. 301	Ideas of Man and His World in Literature	3	3
Fr. 302	French Composition and Conversation	3	3
Electives	.....	6	6
Total		16	15

<i>Course Titles</i>		<i>Second Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
Ed. 413	Practicum in Teaching Foreign Languages	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

FOURTH YEAR

Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
<i>Class</i>	<i>Credit</i>	<i>Hours</i>	<i>Hours</i>
Eng. 302	Ideas of Man and His World in Literature	3	3
Fr. 403	Background of Modern French	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Electives	.....	8	8
Total		17	17

Course Titles	Second Semester	
	Class Hours	Credit Hours
French Electives	6	6
Electives	9	9
Total	15	15

THIRD YEAR

Senior Teaching Section

Course Titles	First Semester	
	Class Hours	Credit Hours
Eng. 301 Ideas of Man and His World in Literature	3	3
Hist. 301 Ideas & Social Change in Western Civilization	3	3
Fr. 302 French Composition and Conversation	3	3
Electives	8	8
Total	17	17

Course Titles	Second Semester	
	Class Hours	Credit Hours
Ed. 310 Methods & Materials in Teaching Foreign Languages in the Secondary School	4	3
Eng. 302 Ideas of Man and His World in Literature	3	3
Fr. 403 Background of Modern French	3	3
Electives	6	6
Total	16	15

FOURTH YEAR

Senior Teaching Section

Course Titles	First Semester	
	Class Hours	Credit Hours
Ed. 413 Practicum in Teaching Foreign Languages	24	12
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Total	27	15

Course Titles	Second Semester	
	Class Hours	Credit Hours
French Electives	6	6
Electives	9	9
Total	15	15

SECONDARY EDUCATION CURRICULUM

SPANISH MAJOR

FIRST YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
S.S. 101 Man and His Institutions	3	3
Phil. 104 Ways of Knowing	3	3
Eng. 101 Effective Communication	3	3
Sci. 203 Man and His Natural Environment	4	3
P.Ed. 100 Physical Education Activities	2	1
Or. 100 Orientation	1	0
Span. 201 Intermediate Spanish	3	3
Total	19	16

Course Titles	Second Semester	
	Class Hours	Credit Hours
S.S. 102 Man and His Institutions	3	3
Eng. 102 Effective Communication	3	3
Sci. 204 Man and His Natural Environment	4	3
P.Ed. 100 Physical Education Activities	2	1
Art 215 Arts in Living	4	4
Span. 202 Intermediate Spanish	3	3
Total	19	17

SECOND YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Ed. 103 Human Growth and Development	4	3
Eng. 103 English Literature		
OR		
Eng. 104 American Literature	3	3
Span. 301 Spanish Composition and Conversation	3	3
Span. 307 History of Spanish Literature	3	3
Science or Mathematics Elective	3-4	3
Math. 103 Mathematics in Modern Life	3	3
Total	19-20	18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 104 Human Growth and Development	4	3	
Elective	3	3	
Social Science Elective	3	3	
Span. 308 History of Spanish Literature	3	3	
Span. 306 Hispanic Civilization	3	3	
Science or Mathematics Elective	3-4	3	
Total	19-20	18	

THIRD YEAR

Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 310 Methods and Materials of Teaching Foreign Languages in the Secondary Schools	4	3	
Eng. 301 Ideas of Man and His World in Literature	3	3	
Span. 302 Spanish Composition and Conversation	3	3	
Electives	6	6	
Total	16	15	

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 413 Practicum in Teaching Foreign Languages	24	12	
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3	
Total	27	15	

FOURTH YEAR

Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Eng. 302 Ideas of Man and His World in Literature	3	3	
Span. 403 Background of Modern Spanish	3	3	
Hist. 301 Ideas and Social Change in Western Civilization	3	3	
Electives	8	8	
Total	17	17	

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Spanish Electives	6	6	
Electives	9	9	
Total	15	15	

THIRD YEAR

Senior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Eng. 301 Ideas of Man and His World in Literature	3	3	
Hist. 301 Ideas & Social Change in Western Civilization	3	3	
Span. 302 Spanish Composition and Conversation	3	3	
Electives	8	8	
Total	17	17	

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 310 Methods and Materials in Teaching Foreign Languages in the Secondary School	4	3	
Eng. 302 Ideas of Man and His World in Literature	3	3	
Span. 403 Background of Modern Spanish	3	3	
Electives	6	6	
Total	16	15	

FOURTH YEAR
Senior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 413	Practicum in Teaching Foreign Languages	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
	Spanish Electives	6	6
	Electives	9	9
Total		15	15

SECONDARY EDUCATION CURRICULUM

MATHEMATICS MAJOR

FIRST YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
S.S. 101	Man and His Institutions: Social, Economic, and Political	3	3
Phil. 104	Ways of Knowing	3	3
Eng. 101	Effective Communications	3	3
Math. 107	Analytic Geometry and Calculus	4	4
Sci. 203	Man and His Natural Environment	4	3
Or. 100	Orientation	1	0
P.Ed. 100	Physical Education Activities	2	1
Total		20	17

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
S.S. 102	Man and His Institutions: Social, Economic, and Political	3	3
Eng. 102	Effective Communications	3	3
Math. 108	Analytic Geometry and Calculus	4	4
Sci. 204	Man and His Natural Environment	4	3
	Elective	3	3
P.Ed. 100	Physical Education Activities	2	1
Total		19	17

SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 103	Human Growth and Development	4	3
Math. 202	Analytic Geometry and Calculus	4	4
*Science	Elective	4-6	3-4
Elective	.....	3	3
Elective	.....	3	3
Total		18-20	16-17

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 104	Human Growth and Development	4	3
Math. 301	Introduction to Modern Algebra OR	3	3
	(Math. 302 Linear Algebra—3)		
Math. 308	Modern Geometry	3	3
*Science	Elective	4-6	3-4
Elective	.....	3	3
Total		17-19	15-16

Note: If the Science Electives and the Art Elective are satisfied by courses with the greater of the two indicated credit hours, then one general elective (3 hours) may be omitted.

* Both Science courses are to be selected from one of these areas: Biology, Chemistry, Earth Science, or Physics.

THIRD YEAR

Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Eng. 301	Ideas of Man and His World in Literature	3	3
Ed. 307	Teaching Mathematics in Secondary School	3	3
Mathematics	Elective	3	3
Mathematics	Elective	3	3
Music	Elective	3	3
Elective	.....	3	3
Total		18	18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 407	Practicum in Teaching Mathematics	24	12
Ed. 403	Historical and Philosophical Forces Influencing		
	Secondary Education	3	3
Total		27	15

FOURTH YEAR

Junior Teaching Section

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Eng. 302	Ideas of Man and His World in Literature	3	3
Social Studies	Elective	3	3
Mathematics	Elective	3	3
Art	Elective	3-4	2-3
Elective	.....	3	3
Elective	.....	3	3
Total		18-19	17-18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Mathematics	Elective	3	3
Electives	.....	9	9
Total		15	15

THIRD YEAR
Senior Teaching Section

Course Titles	First Semester	
	Class Hours	Credit Hours
Eng. 301 Ideas of Man and His World in Literature	3	3
Ed. 307 Teaching Mathematics in Secondary School	3	3
Mathematics Elective	3	3
Mathematics Elective	3	3
Music Elective	3	3
Elective	3	3
Total	18	18

Course Titles	Second Semester	
	Class Hours	Credit Hours
Eng. 302 Ideas of Man and His World in Literature	3	3
Social Studies Elective	3	3
Mathematics Elective	3	3
Art Elective	3-4	2-3
Electives	6	6
Total	18-19	17-18

FOURTH YEAR
Senior Teaching Section

Course Titles	First Semester	
	Class Hours	Credit Hours
Ed. 407 Practicum in Teaching Mathematics	24	12
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Total	27	15

Course Titles	Second Semester	
	Class Hours	Credit Hours
Hist. 301 Ideas and Social Change in Western Civilization	3	3
Mathematics Elective	3	3
Electives	9	9
Total	15	15

SECONDARY EDUCATION CURRICULUM

SCIENCE—BIOLOGY

FIRST YEAR

Course Titles	First Semester	
	Class Hours	Credit Hours
Eng. 101 Effective Communication	3	3
Biol. 111 General Biology	6	4
Chem. 111 General Chemistry	6	4
Mathematics by advisement	3-4	3-4
P.Ed. 100 Physical Education Activities	2	1
Or. 100 Orientation	1	0
Total	21-22	15-16

Course Titles	Second Semester	
	Class Hours	Credit Hours
Eng. 102 Effective Communication	3	3
Biol. 112 General Biology	6	4
Chem. 112 General Chemistry	8	4
Mathematics by advisement	3-4	3-4
P.Ed. 100 Physical Education Activities	2	1
Total	22-23	15-16

SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
S.S. 101	Man and His Institutions: Social, Economic, and Political	3	3
Biol. 201	Microbiology	6	4
Phy. 111	General Physics	5	4
Ed. 103	Human Growth and Development	4	3
Mathematics or elective	.....	3-4	3-4
Total		21-22	17-18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
S.S. 102	Man and His Institutions: Social, Economic, and Political	3	3
Biol. 203	Genetics	5	4
Phy. 112	General Physics	5	4
Ed. 104	Human Growth and Development	4	3
Art 215	Arts in Living	4	4
Total		21	18

THIRD YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Phil. 104	Ways of Knowing	3	3
Ed. 308	Methods and Materials in Teaching Secondary School Science	4	3
Biol. 301	General Physiology	5	3
E.S. 111	Earth Science	5	4
Elective	.....	3-4	3-4
Total		20-21	16-17

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Ed. 408	Practicum in Teaching Science in the Secondary School	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

FOURTH YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Eng. 301	Ideas of Man and His World in Literature	3	3
Mathematics by advisement	.....	4	4
Biol. 401	Ecology	6	4
Electives	.....	6-7	6-7
Total		19-20	17-18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class Hours</i>	<i>Credit Hours</i>
Eng. 302	Ideas of Man and His World in Literature	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
E.S. 112	Physical Geology	5	4
Biol. 402	Human Biology	4	3
Elective	.....	3-4	3-4
Total		18-19	16-17

SCIENCE—CHEMISTRY

FIRST YEAR

Course Titles	First Semester	
	Class	Credit
	Hours	Hours
Eng. 101 Effective Communication	3	3
Chem. 111 General Chemistry	6	4
Phy. 111 General Physics	5	4
Mathematics by advisement	3-4	3-4
Or. 100 Orientation	1	0
P.Ed. 100 Physical Education Activities	2	1
Total	20-21	15-16

Course Titles	Second Semester	
	Class	Credit
	Hours	Hours
Eng. 102 Effective Communication	3	3
Chem. 112 General Chemistry	8	4
Phy. 112 General Physics	5	4
Mathematics by advisement	3-4	3-4
P.Ed. 100 Physical Education Activities	2	1
Total	21-22	15-16

SECOND YEAR

Course Titles	First Semester	
	Class	Credit
	Hours	Hours
S.S. 101 Man and His Institutions: Social, Economic, and Political	3	3
Chem. 201 Organic Chemistry	6	4
Biol. 111 General Biology	6	4
Mathematics or elective	3-4	3-4
Phil. 104 Ways of Knowing	3	3
Total	21-22	17-18

Course Titles	Second Semester	
	Class	Credit
	Hours	Hours
S.S. 102 Man and His Institutions: Social, Economic, and Political	3	3
Chem. 202 Organic Chemistry	5	3
Biol. 112 General Biology	6	4
Mathematics or elective	3-4	3-4
Ed. 103 Human Growth and Development	4	3
Total	21-22	16-17

THIRD YEAR

Course Titles	First Semester	
	Class	Credit
	Hours	Hours
Art 215 Arts in Living	4	4
Chem. 405 Physical Chemistry	6	4
E.S. 111 Earth Science	5	4
Ed. 104 Human Growth and Development	4	3
Chem. 301 Analytical Chemistry (& Instrumentation)	7	3
Total	26	18

Course Titles	Second Semester	
	Class	Credit
	Hours	Hours
Eng. 301 Ideas of Man and His World in Literature	3	3
Chem. 406 Physical Chemistry	5	3
E.S. 112 Physical Geology	5	4
Ed. 308 Methods and Materials in Teaching Secondary School Science	4	3
Elective	3	3
Total	20	16

FOURTH YEAR

Course Titles	First Semester	
	Class	Credit
	Hours	Hours
Ed. 408 Practicum in Teaching Science in the Secondary School	24	12
Ed. 403 Historical and Philosophical Forces Influencing Secondary Education	3	3
Total	27	15

Course Titles	Second Semester	
	Class	Credit
	Hours	Hours
Eng. 302 Ideas of Man and His World in Literature	3	3
Hist. 301 Ideas and Social Change in Western Civilization	3	3
Chem. 404 Chemistry Seminar	1	1
Electives	9	9
Total	16	16

SCIENCE—EARTH SCIENCES

FIRST YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Eng. 101	Effective Communication	3	3
E.S. 111	Earth Science	5	4
Biol. 111	General Biology	6	4
Mathematics by advisement		3-4	3-4
P.Ed. 100	Physical Education Activities	2	1
Or. 100	Orientation	1	0
Total		20-21	15-16

Course Titles		Second Semester	
		Class Hours	Credit Hours
Phil. 104	Ways of Knowing	3	3
Eng. 102	Effective Communication	3	3
E.S. 112	Physical Geology	5	4
Biol. 112	General Biology	6	4
P.Ed. 100	Physical Education Activities	2	1
Mathematics by advisement		3-4	3-4
Total		22-23	18-19

SECOND YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
S.S. 101	Man and His Institutions: Social, Economic, and Political	3	3
Ed. 103	Human Growth and Development	4	3
E.S. 204	Historical Geology	4	3
Chem. 111	General Chemistry	6	4
Mathematics or elective		3-4	3-4
Total		20-21	16-17

Course Titles		Second Semester	
		Class Hours	Credit Hours
S.S. 102	Man and His Institutions: Social, Economic, and Political	3	3
Ed. 104	Human Growth and Development	4	3
E.S. 201	Physiography	4	3
Chem. 112	General Chemistry	8	4
Mathematics or elective		3-4	3-4
Total		22-23	16-17

THIRD YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
Ed. 308	Methods and Materials in Teaching Secondary School Science	4	3
Art 215	Arts in Living	4	4
E.S. 302	Paleontology	4	3
Phy. 111	General Physics	5	4
Elective		3	3
Total		20	17

Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 408	Practicum in Teaching Science in the Secondary School	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

FOURTH YEAR

Course Titles		First Semester	
		Class Hours	Credit Hours
E.S. 301	Stratigraphy	4	3
Eng. 301	Ideas of Man and His World in Literature	3	3
E.S. 303	Mineralogy and Petrology	4	3
Electives		6	6
Total		17	15

Course Titles		Second Semester	
		Class Hours	Credit Hours
Eng. 302	Ideas of Man and His World in Literature	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
E.S. 402	Geology of North America	4	3
Phy. 112	General Physics	5	4
Elective		3-4	3-4
Total		18-19	16-17

SCIENCE—PHYSICS

FIRST YEAR

Course Titles		First Semester Class	Credit
Hours	Hours		
Eng. 101	Effective Communication	3	3
Phy. 111	General Physics	5	4
E.S. 111	Earth Science	5	4
Mathematics by advisement		3-4	3-4
P.Ed. 100	Physical Education Activities	2	1
Or. 100	Orientation	1	0
Total		19-20	15-16

Course Titles		Second Semester Class	Credit
Hours	Hours		
Phil. 104	Ways of Knowing	3	3
Eng. 102	Effective Communication	3	3
Phy. 112	General Physics	5	4
E.S. 112	Earth Science	5	4
Mathematics by advisement		3-4	3-4
P.Ed. 100	Physical Education Activities	2	1
Total		21-22	18-19

SECOND YEAR

Course Titles		First Semester Class	Credit
Hours	Hours		
S.S. 101	Man and His Institutions: Social, Economic, and Political	3	3
Phy. 202	Intermediate Electricity	5	3
Chem. 111	General Chemistry	6	4
Mathematics or elective		3-4	3-4
Ed. 103	Human Growth and Development	4	3
Total		21-22	16-17

Course Titles		Second Semester Class	Credit
Hours	Hours		
S.S. 102	Man and His Institutions: Social, Economic, and Political	3	3
Phy. 201	Radio Electronics	4	3
Chem. 112	General Chemistry	8	4
Mathematics or elective		3-4	3-4
Ed. 104	Human Growth and Development	4	3
Total		22-23	16-17

THIRD YEAR

Course Titles		First Semester Class	Credit
Hours	Hours		
Art 215	Arts in Living	4	4
Phy. 406	Modern Physical Concepts	5	4
Physics elective		4	3
Biol. 111	General Biology	6	4
Total		19	15

Course Titles		Second Semester Class	Credit
Hours	Hours		
Eng. 301	Ideas of Man and His World in Literature	3	3
Phy. 405	Modern Atomic Physics	4	3
Biol. 112	General Biology	6	4
Ed. 308	Methods and Materials in Teaching Secondary School Science	4	3
Elective		3	3
Total		20	16

FOURTH YEAR

Course Titles		First Semester Class	Credit
Hours	Hours		
Ed. 408	Practicum in Teaching Science in the Secondary School	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

Course Titles		Second Semester Class	Credit
Hours	Hours		
Eng. 302	Ideas of Man and His World in Literature	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Phy. 404	Laboratory Practicum	4	2
Electives		9	9
Total		19	17

SECONDARY EDUCATION CURRICULUM

SOCIAL STUDIES MAJOR

FIRST YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
S.S. 101	Man and His Institutions: Social, Economic, and Political	3	3
Phil. 104	Ways of Knowing	3	3
Eng. 101	Effective Communication	3	3
P.Ed. 100	Physical Education Activities	2	1
Math. or Science	.....	3-4	3
Hist. 206	Foundations of Western Civilization	3	3
Or. 100	Orientation	2	0
Total		19-20	16

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
S.S. 102	Man and His Institutions: Social, Economic, and Political	3	3
Math. 103	Mathematics and Modern Life	3	3
Eng. 102	Effective Communication	3	3
P.Ed. 100	Physical Education Activities	2	1
Math. or Science	.....	3-4	3
S.S. Group A:—select one—	.....	3	3
Hist. 201	Social and Intellectual Development of the American People to 1900		
Hist. 202	Political and Economic Growth of the U.S. to 1900		
Hist. 203	United States in the Twentieth Century		
Total		17-18	16

SECOND YEAR

<i>Course Titles</i>		<i>First Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 103	Human Growth and Development	4	3
Sci. 203	Man and His Natural Environment	4	3
Elective	.....	3	3
S.S. Group B:—select one—	.....	3	3
Hist. 205	Twentieth Century Europe		
Hist. 313	History of Latin America: The Colonial Era		
Hist. 314	History of Latin America: The National Era		
Hist. 306	History of the Far East		
Hist. 307	History of Modern Africa		
S.S. 300	History and Culture of the Middle East		
Econ. 201	Principles and Problems of Economics	3	3
Social Studies Elective	.....	3	3
Total		20	18

<i>Course Titles</i>		<i>Second Semester</i>	
		<i>Class</i>	<i>Credit</i>
		<i>Hours</i>	<i>Hours</i>
Ed. 104	Human Growth and Development	4	3
Sci. 204	Man and His Natural Environment	4	3
H.Ed. 204	Personal and Community Health	2	2
Eng. 103	English Literature	3	3
P.S. 206	American Politics and Political Parties (3) OR		
P.S. 207	American Political Institutions and Problems	3	3
Social Studies Elective	.....	3	3
Total		19	17

THIRD YEAR

Junior Teaching Section

Course Titles		First Semester	
		Class Hours	Credit Hours
Eng. 301	Ideas of Man and His World in Literature	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Ed. 309	Methods and Materials in Teaching Secondary School Social Studies	4	3
Elective	.....	3	3
Hist. 302	History and Government of New York State OR	3	3
Geog. 201	Geography of New York State—(3)	—	—
Total		16	15

Second Semester

Course Titles		Second Semester	
		Class Hours	Credit Hours
Ed. 409	Practicum in Teaching Secondary School Social Studies	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

FOURTH YEAR

Junior Teaching Section

Course Titles		First Semester	
		Class Hours	Credit Hours
Eng. 302	Ideas of Man and His World in Literature	3	3
Geog. 201	General Geography	3	3
Electives	.....	6	6
Hist. 409	Seminar in Problems of American History	3	3
Social Studies elective	.....	3	3
Total		18	18

Second Semester

Course Titles		Second Semester	
		Class Hours	Credit Hours
Eng. 104	American Literature	3	3
Geog. 301	General Geography	3	3
Electives	.....	6	6
Social Studies Elective	.....	3	3
The Arts ¹	.....	2-4	3
Total		17-19	18

THIRD YEAR

Senior Teaching Section

Course Titles		First Semester	
		Class Hours	Credit Hours
Eng. 301	Ideas of Man and His World in Literature	3	3
Hist. 301	Ideas and Social Change in Western Civilization	3	3
Geog. 201	General Geography	3	3
Elective	.....	3	3
Social Studies Elective	.....	3	3
The Arts ¹	.....	2-4	3
Total		17-19	18

¹ Selection for the Arts from the following:

- Art 109 Contemporary Art (2)
- Art 211 History of Art I (2)
- Art 442 Scenography (2)
- Art 215 Arts in Living (4)
- Music 100 The Listener's Orientation to Music (3)
- Music 200 American Folk Music (3)
- Music 201 Afro-American Music (3)
- Music 320 Music in Living (3)
- Music 403 Dramatic Music (3)
- Music 404 The Art of Enjoying Music (3)
- English 203 Modern Drama (3)
- English 207 Play Production (3)
- English 304 Survey of Drama (3)
- English 315 Shakespeare I (3)
- English 316 Shakespeare II (3)

Second Semester

Course Titles		Second Semester	
		Class Hours	Credit Hours
Eng. 302	Ideas of Man and His World in Literature	3	3
Ed. 309	Methods and Materials in Teaching Secondary School Social Studies	4	3
Electives	.....	6	6
Hist. 302	History and Government of New York State OR	3	3
Geog. 206	Geography of New York State—(3)	—	—
Total		16	15

FOURTH YEAR
Senior Teaching Section

Course Titles		First Semester Class Hours	Credit Hours
Ed. 409	Practicum in Teaching Secondary School Social Studies	24	12
Ed. 403	Historical and Philosophical Forces Influencing Secondary Education	3	3
Total		27	15

Course Titles		Second Semester Class Hours	Credit Hours
Geog. 301	General Geography	3	3
Eng. 104	American Literature	3	3
Electives		6	6
Hist. 409	Seminar in the Problems of American History	3	3
Social Studies Elective		3	3
Total		18	18

Vocational Technical Education Division

Walter J. Zimmerman, Director

Faculty: Adner, Buck, Coughenour, Harris, Pileri, Roeder, Roesch, Ruth,
Schmidle, Spengler, Theurer, F., Theurer, R.

The Vocational Technical Education Division offers programs of studies
leading to:

1. Basic Teacher Certification
2. Bachelor of Science Degree
3. Master of Science Degree

The basic certificate program—formerly known as the Industrial Teacher Training Program, Bureau of Vocational Curriculum Development and Industrial Teacher Training of the State Education Department—prepares accepted candidates to teach Vocational Trade Shop, Related Trade Subjects, Technical Subjects and Related Technical Subjects in the public Vocational and Technical High Schools of New York State, as well as many Technical Institutes and Community College Programs. Graduates of the basic program are eligible for certification in day, evening, extension and apprenticeship programs in accordance with the Regulations of the Commissioner of Education.

Admission to the program is on a selective basis in accordance with the standards of the State Education Department. An Admissions Committee selects candidates from among applicants according to trade and technical proficiency, personal qualification, scores on aptitude tests, and the probable need for teachers in each vocational technical area.

The Bachelor of Science Degree program is designed for Vocational Technical teachers to further meet certification requirements and to extend their original certification to include other subjects and areas of instruction. The total curriculum includes professional courses designed to:

1. Provide orientation to the field of education in general and to vocational and technical education specifically.
2. Assist prospective vocational technical teachers in organizing their knowledge and skill for teaching purposes.
3. Furnish an understanding of, and skill in, methods and techniques of teaching Vocational Technical Subjects.
4. Develop the ability to organize and manage a school shop or laboratory.
5. Provide an opportunity for practice teaching under supervision.

6. Describe the basic concepts of how people learn, the characteristics of students, and the guidance functions of Vocational Technical teachers.
7. Aid prospective Vocational Technical teachers to progress in the profession.

The Master of Science Degree program will qualify candidates for principal, supervisor and administrator certificates in Vocational Technical Education. The requirements for this degree are explained in the graduate catalog.

Interested applicants may acquire additional information by communicating with the Director of the Vocational Technical Division.

VOCATIONAL TECHNICAL EDUCATION CURRICULUM

Unlike other teacher education programs in this catalog, the methods for securing appropriate courses and experiences in a vocational technical education degree program are somewhat unconventional. Continuous advisement by the Vocational Technical Education Division is recommended for candidates in this program of study.

	Course Titles	Credit Hours
V.T. 100	Applied Skill and Technical Information	30
V.T. 200	Introduction to Vocational Education	2
V.T. 201	Trade Analysis and Course Organization	2
V.T. 202	Trade Analysis and Course Organization	2
V.T. 203	Educational Psychology	2
V.T. 204	Methods of Teaching Vocational Technical Subjects	2
V.T. 205	Methods of Teaching Vocational Technical Subjects	2
V.T. 206	Shop Organization and Management	2
V.T. 207	Use of Instructional Materials	2
V.T. 208	Vocational and Educational Guidance	2
V.T. 209	Audiovisual Materials and Devices	2
V.T. 210	Audiovisual Materials and Devices	2
V.T. 211	Evaluation of Instruction	2
V.T. 212	Practice Teaching and Observation	2
V.T. 213	Practice Teaching and Observation	2
V.T. 214	Professional Development Seminar	2
V.T. 215	Professional Development Seminar	2
Eng. 101	Effective Communication	3
Eng. 102	Effective Communication	3
Eng. 301	Ideas of Man and His World in Literature or equivalent	3
SS. 101	Man and His Institutions: Social, Economic and Political	3
S.S. 102	Man and His Institutions: Social, Economic and Political	3
Phil. 104	Ways of Knowing	2
H.Ec. 201	Family Living	2

Mus. 101	Essentials of Music	2
Art 200	Essentials of Art	2
H.Ed. 204	Personal and Community Health	2
*Science	.....	6
Math. 103	Mathematics and Modern Life	2
Math.	Mathematics	4
V.T. 401	Mechanical Drawing	2
V.T. 402	Mechanical Drawing	2
V.T. 495	Independent Study-Project or special technical courses	4-6
Electives	.....	21-23
Total	.....	130

* By advisement

VOCATIONAL TECHNICAL COURSES

V.T. 100—APPLIED SKILL AND TECHNICAL INFORMATION

Satisfied by passing a performance and theoretical examination. (Letters verifying approved and appropriate experience and in addition satisfying other necessary requirements as set forth in the admissions requirements for the Basic Vocational Technical Teacher Education Program.) These credits are acceptable only after the Basic Vocational Technical Teacher Education Program has been completed and requirements for permanent certification have been met.

CREDIT: Thirty semester hours

V.T. 200—INTRODUCTION TO VOCATIONAL TECHNICAL EDUCATION

Objectives of general and vocational education; growth of vocational education; description of the various programs of vocational education—full and part time; characteristics and content of good programs; personal and professional characteristics of teachers and trends in vocational education.

CREDIT: Two semester hours—two class hours

V.T. 201—TRADE ANALYSIS AND COURSE ORGANIZATION

Techniques of analyzing a trade for the purpose of preparing a list of teachable content of a trade, for the selection of skills, operations, tools, equipment and materials, mathematics, science, drawing, terminology, safety and hygiene, and trade judgment.

CREDIT: Two semester hours—two class hours

V.T. 202—TRADE ANALYSIS AND COURSE ORGANIZATION

A continuation of V.T. 201

PREREQUISITE: V.T. 201

CREDIT: Two semester hours—two class hours

V.T. 203—EDUCATIONAL PSYCHOLOGY

Fundamentals of psychology and the application to learning; nature and principles of learning, individual differences, factors influencing learning ability and problems of human behavior in an educational setting; physical, intellectual, and emotional and social development of youth.

CREDIT: Two semester hours—two class hours

V.T. 204—METHODS OF TEACHING VOCATIONAL SUBJECTS

Basic principles and methods of teaching vocational subjects. Prepares the craftsman, technician, or engineer to effectively impart his knowledge to the learner.

CREDIT: Two semester hours—two class hours

V.T. 205—METHODS OF TEACHING VOCATIONAL SUBJECTS

A continuation of V.T. 204.

PREREQUISITE: V.T. 204

CREDIT: Two semester hours—two class hours

V.T. 206—SHOP ORGANIZATION AND MANAGEMENT

Emphasizing the many factors essential to success in the teaching profession. Includes the various planning, supervisory and managerial phases of the vocational teacher's position.

CREDIT: Two semester hours—two class hours

V.T. 207—USE OF INSTRUCTIONAL MATERIALS

Various media for planned meaningful class and student activities. Copyrighted, instructor, student and commercially prepared materials considered, including newer Educational Developments, General Sources, Criteria and Evaluation will be explored and developed for teacher usage.

CREDIT: Two semester hours—two class hours

V.T. 208—VOCATIONAL AND EDUCATIONAL GUIDANCE

Aims, principles and scope of guidance as a pupil personnel service of value to both pupils and teachers; guidance as an integral part of the educational process; a cross-section of the elements of guidance and the function of the teacher in a well organized guidance program.

CREDIT: Two semester hours—two class hours

V.T. 209—AUDIOVISUAL MATERIALS AND DEVICES

Clear concept of the educational need and value of audiovisual materials in vocational technical subjects. Produce materials which lend themselves to simple construction, become acquainted with commercial audiovisual materials and establish evaluation procedures and record keeping for use with materials and equipment.

CREDIT: Two semester hours—two class hours

V.T. 210—AUDIOVISUAL MATERIALS AND DEVICES

A continuation of V.T. 209.

PREREQUISITE: V.T. 209

CREDIT: Two semester hours—two class hours

V.T. 211—EVALUATION OF INSTRUCTION

Types and characteristics of school tests, principles of test construction, practice in the development of tests and interpretation of test data—all related to vocational technical students and classes.

CREDIT: Two semester hours—two class hours

V.T. 212—PRACTICE TEACHING AND OBSERVATION

Supervised observations of vocational technical classes and practice in specially selected, approved vocational schools. Conference and reports based upon teaching assignments will be required.

CREDIT: Two semester hours—two class hours

V.T. 213—PRACTICE TEACHING AND OBSERVATION

A continuation of V.T. 212.

PREREQUISITE: V.T. 212

CREDIT: Two semester hours—two class hours

V.T. 214—PROFESSIONAL DEVELOPMENT SEMINAR

To develop the abilities and competencies of teachers and to analyze and discuss the problems and activities which confront teachers.

CREDIT: Two semester hours—two class hours

V.T. 215—PROFESSIONAL DEVELOPMENT SEMINAR

A continuation of V.T. 214.

PREREQUISITE: V.T. 214

CREDIT: Two semester hours—two class hours

V.T. 401—MECHANICAL DRAFTING

Techniques of drawing, pictorial and orthographic sketching, geometric construction, instrument drawing, 2-view and 3-view drawings, lettering, dimensioning, sectional and auxiliary views, fasteners and reproduction of drawings. Required of all Vocational Technical students except for those who elect Applied Design and Art for Vocational Technical Education as it applies to their needs.

CREDIT: Two semester hours—two class hours

V.T. 402—MECHANICAL DRAFTING

A continuation of V.T. 401.

PREREQUISITE: V.T. 401

CREDIT: Two semester hours—two class hours

V.T. 403—APPLIED DESIGN AND ART

Application and theory of design principles, the methods and approach to the fundamentals of drawing, art and design, emphasizing function, material, and processes in relation to form. Required of all Vocational Technical Education students in lieu of V.T. 401 and V.T. 402.

CREDIT: Two semester hours—two class hours

V.T. 404—APPLIED DESIGN AND ART

A continuation of V.T. 403.

PREREQUISITE: V.T. 403

CREDIT: Two semester hours—two class hours

V.T. 495—INDEPENDENT PROJECT OR STUDY

An individual undertaking by a student under the guidance of a faculty member, involving a special investigative or creative potential not otherwise available through regular course offerings; available to upperclassmen who have demonstrated capacity for independent work.

CLASSIFICATION: Elective for upperclassmen

CREDIT: One to six semester hours

SPECIAL NOTE: Requires the recommendation of a faculty member related to the area of the project, who agrees to supervise the project, and approval of the Division Director

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