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State University of New York

COLLEGE FOR TEACHERS
at BUFFALO

BULLETIN

1958-1959

General Catalog

STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises forty-two colleges. Twenty-eight of them are state-operated and fourteen are locally-sponsored community colleges. Although separated geographically, all are united in the purpose to improve and extend opportunities for youth to continue their education after high school.

State University offers cultural and professional four-year programs in liberal arts, home economics, industrial and labor relations, veterinary medicine, ceramics, agriculture, forestry, maritime service, medicine and teacher preparation, as well as two-year programs in a wide variety of fields, including technical courses in agricultural, industrial, health, and service areas. Several of its colleges offer graduate programs.

Governed by a Board of Trustees appointed by the Governor, State University of New York plans for the total development of State-supported higher education. Each college of State University is locally administered, and students apply directly to the institution for admission.

Although State University of New York is the second largest state university in the country, its students have the additional advantages of attending relatively small colleges.

The State University motto is: "Let Each Become All He Is Capable of Being."

STATE UNIVERSITY OF NEW YORK

College for Teachers at Buffalo

Bulletin

CATALOG ISSUE

1958-1959

BUFFALO, NEW YORK

MARCH 1958

STATE UNIVERSITY COLLEGE FOR TEACHERS BULLETIN
VOLUME XXVI, NUMBER 2

One of Four Publications Issued Four Times Yearly: March, April, August, and October by State University College for Teachers, Buffalo 22, N. Y. Entered as Second Class Mail Matter, November 3, 1932, at the Post Office of Buffalo, N. Y. under the Act of August 24, 1912. Acceptance for mailing at special rate authorized December 13, 1932.

SIGNIFICANT DATES IN THE HISTORY OF THE COLLEGE

- 1867 Legislature created the Normal School at Buffalo
- 1871 Henry B. Buckham appointed first Principal, school opened with three departments, Normal, Collegiate, Scientific
- 1873 First graduating class—23 graduates
- 1886 James M. Cassety appointed second Principal
- 1895 Three-year "Primary and Kindergarten Course" initiated
- 1906 Manual Arts department established
- 1909 Daniel Upton appointed third Principal
- 1910 Household Arts Department established
- 1915 Edward H. Butler, Jr. succeeds Edward H. Butler as President of Local Board
- 1919 Harry W. Rockwell appointed fourth Principal
- 1919 Home Economics Program became four-year course leading to Bachelor of Science in Home Economics
- 1920 Manual Arts Department changed to Industrial Arts Department
- 1925 Normal course became four-year program leading to Bachelor of Science in Education
- 1928 Name changed to New York State College for Teachers, Principal changed to President; accredited by American Association of Teachers Colleges
- 1930 Art Education Department established
- 1931 Moved to present campus
- 1939 Accredited by American Association of University Women
- 1944 Exceptional Children Education Division established
- 1945 Master of Science degree authorized
- 1948 State University of New York established; College accredited by Middle States Association of Colleges and Secondary Schools
- 1951 President Harry W. Rockwell retired; Dean Ralph Horn became Acting President; Harvey M. Rice appointed President

The College is a member of the following organizations:

AMERICAN ASSOCIATION OF COLLEGES FOR TEACHER EDUCATION
AMERICAN ASSOCIATION OF COLLEGIATE REGISTRARS
AMERICAN ASSOCIATION OF UNIVERSITY WOMEN
AMERICAN COUNCIL ON EDUCATION
ASSOCIATION OF COLLEGE UNIONS
MIDDLE STATES ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS
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

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STATE UNIVERSITY OF NEW YORK

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*Secretary of the University and Assistant to the Chairman
of the Board of Trustees*

J. LAWRENCE MURRAY

President

WILLIAM S. CARLSON,
A.B., M.S., Ph.D., LL.D., D.Sc.

Executive Dean for Teacher Education

HERMANN COOPER,
A.B., Mus.B., A.M., Ph.D., LL.D.

College Calendar

SPRING SEMESTER 1958

Wednesday,	January 29	Registration
Thursday,	January 30	
Friday,	January 31	
Monday,	February 3	Classes Begin
Wednesday,	February 12*	Lincoln's Birthday
Wednesday,	April 2*	Easter Recess Begins
Monday,	April 14	Classes Resume
Tuesday,	May 27	Senior Examinations Begin
Friday,	May 30*	Memorial Day
Friday,	June 6	Spring Semester Ends
	June 7, 8	Commencement Week End

SUMMER SESSION 1958

Monday,	June 30	Registration
Monday,	June 30	Classes Begin for Eight Weeks Session
Tuesday,	July 1	Classes Begin for Six Weeks Session
Friday,	July 4*	Independence Day
Saturday,	July 12	College in Session
Friday,	August 8	Six Weeks Session Ends
Monday,	August 11	Post-Session Begins
Friday,	August 22	Eight Weeks Session and Post-Session End

FALL SEMESTER 1958

Monday,	September 8	New Faculty Meeting
		Faculty Meeting
Monday,	September 8	New Student Week Activities
Tuesday,	September 9	
Wednesday,	September 10	
Wednesday,	September 10	Registration
Thursday,	September 11	
Friday,	September 12	Freshman Camp
Friday,	September 12	
Monday,	September 15	Classes Begin
Thursday,	September 25	Last Date for Registration
Thursday,	October 9	State University Faculties
Friday,	October 10	Association Meeting, Syracuse

* Classes not in session.

Friday,	October 24*	Western Zone Conference
Tuesday,	November 4*	Election Day
Tuesday,	November 11*	Veterans' Day
Wednesday,	November 26*	Thanksgiving Recess Begins
Monday,	December 1	Classes Resume
Saturday,	December 20	Christmas Recess Begins
Monday,	January 5	Classes Resume
Monday,	January 26	Final Examination Week Begins
Friday,	January 30	Fall Semester Ends

SPRING SEMESTER 1959

Wednesday,	February 4	Registration
Thursday,	February 5	
Friday,	February 6	
Monday,	February 9	Classes Begin
Thursday,	February 12*	Lincoln's Birthday
Wednesday,	March 25*	Easter Recess Begins
Monday,	April 6	Classes Resume
Wednesday,	June 3	Senior Examinations Begin
Monday,	June 8	Final Examination Week Begins
Friday,	June 12	Spring Semester Ends
	June 13, 14	Commencement Week End

SUMMER SESSION 1959

Monday,	June 29	Registration
Monday,	June 29	Classes Begin for Eight Weeks Session
Tuesday,	June 30	Classes Begin for Six Weeks Session
Friday,	August 7	Six Weeks Session Ends
Monday,	August 10	Post-Session Begins
Friday,	August 21	Eight Weeks Session and Post-Session End

* Classes not in session.

The College

Local Council

	Term Expires
Reid S. Moule (<i>Chairman</i>).....	1960
Joseph L. Fink.....	1961
Joseph F. Higgins.....	1966
Mrs. James C. Lytle.....	1965
Hamilton B. Mizer.....	1958
Philip W. Patti.....	1964
Mrs. James H. Righter.....	1963
Mrs. Jean B. Rogers.....	1959
Mrs. Herbert J. Vogelsang.....	1962

Officers of Administration

Harvey M. Rice, A.B., M.A., Ph.D.....	<i>President</i>
Ralph Horn, A.B., M.A., Ph.D.....	<i>Dean</i>
Stanley A. Czurles, B.F.A., M.F.A., Ph.D...	<i>Director of Art Education</i>
Katheryne T. Whittemore, A.B., A.M., Ph.D....	<i>Director of Arts and Sciences</i>
Robert W. MacVittie, B.E., M.A., Ed.D.....	<i>Director of Elementary Education</i>
Horace Mann, A.B., A.M., Ph.D.....	<i>Director of Exceptional Children Education</i>
William D. Baker, B.A., M.A., Ph.D...	<i>Director of General Education</i>
Robert E. Albright, A.B., M.A., Ph.D.....	<i>Director of Graduate and Extension Education</i>
Margaret A. Grant, B.S., M.S., Ed.D.....	<i>Director of Home Economics Education</i>
Kenneth W. Brown, B.S., M.S., Ph.D.....	<i>Director of Industrial Arts Education</i>
Walter B. Greenwood, A.B., M.A., Ph.D.....	<i>Director of Summer Session and Supervisor of Examinations</i>
Gordon J. Klopff, B.S., Ph.M., Ph.D.....	<i>Dean of Students</i>
Ruth Sugarman, B.S., M.A., Ed.D.....	<i>Principal of Campus School</i>
Charles P. La Morte, A.B., M.A., Ed.D....	<i>Assistant to the President</i>
James R. Spence, B.A., M.A.....	<i>Coordinator of Field Services</i>

Herman Trubov, B.F.A., M.A., Ph.D....	<i>Coordinator of Audio-Visual Education</i>
Anthony Milanovich, B.S., M.S., Ph.D.....	<i>Coordinator of Student Teaching</i>
Theodore C. Moss, B.Ed., M.A., Ed.D.....	<i>Coordinator of Placement</i>
Van E. Quaal, A.B., A.M.....	<i>Assistant to the Dean</i>
Lawrence S. Katzman, B.A., Ed.M.....	<i>Chairman, Department of Athletics</i>
Charles W. Bullock, Ph.B., Pharm.M., A.C., Phar.D.....	<i>Honorary Curator, Natural Science Collection</i>
Nicholas J. Carriero, B.S.....	<i>Registrar</i>
Morton R. Lane, B.S.....	<i>Senior Financial Secretary</i>

Faculty

Emeritus

- Harry W. Rockwell (1919)*.....*President Emeritus*
A.B., A.M. (Brown); A.M. (Columbia); Pd.D. (Albany State); L.L.D. (Brown)
- Charles B. Bradley (1918).....*Director Emeritus of*
Pratt Institute; B.S. (Buffalo State) *Art Education Division*
- Harry J. Steel (1926).....*Director Emeritus of Education*
B.A., A.M., Ph.D. (Minnesota)
- Myrtle V. Caudell (1919).....*Director Emeritus of*
B.S., M.A. (Columbia) *Home Economics Division*
- Mildred Sipp (1918).....*Director Emeritus of Home Economics Division*
B.S., M.A. (Columbia)
- Irving C. Perkins (1920).....*Director Emeritus of*
B.S. (New Hampshire); M.A. (Buffalo) *Industrial Arts Division*
- 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)
- Anna Gemmill (1919).....*Professor Emeritus of Science*
B.S., M.A. (Buffalo); Ph.D. (Columbia)
- Ruth E. Houston (1917).....*Professor Emeritus of*
A.B. (Western); A.M. (California) *Health and Physical Education*
- Ida L. Kempke (1907).....*Professor Emeritus of English*
Pd.B., A.B., A.M. (Buffalo)
- Chester A. Pugsley (1930).....*Professor Emeritus of Education*
B.A. (Dalhousie); M.A., Ed.D. (Columbia)
- Charles Root (1917).....*Professor Emeritus of Education*
Pd.B., Pd.M. (Michigan State); A.B. (Michigan); A.M. (Chicago)
- 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)
- Martha Metz (1927).....*Assistant Professor Emeritus*
B.S. (Buffalo State); A.M. (Michigan) *of Elementary Education*
- Eileen Mulholland (1923).....*Assistant Professor Emeritus of English*
Ph.B. (Chicago); M.A. (Columbia)
- Catherine E. Reed (1920).....*Associate Dean of Students Emeritus*
A.B. (Syracuse); M.A. (Columbia)

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

- 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. (Buffalo State); 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. (Buffalo State); 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 1957 - 1958

- Lois G. Adams (1946).....*Associate Professor of Home Economics*
B.S. (Illinois); M.A. (Columbia)
- Joseph P. Adessa (1948).....*Associate Professor of Health Education*
B.S., M.Ed. (Penn State)
- Henry W. Ahrens** (1952).....*Associate Professor of Art,*
B.F.A. (Pratt Institute); M.A. (Columbia) *Campus School*
- Robert E. Albright (1937).....*Director, Graduate and*
Extension Education Division
A.B. (Nebraska Wesleyan); M.A. (Colorado); Ph.D. (Stanford)
- Grace Ann Aspray (1951).....*Assistant Professor of Home Economics*
B.S. (Syracuse); M.A. (Columbia)
- Pearson Bailey (1952).....*Assistant Professor of Music*
B.S. (Wittenberg); M.A. (Wayne)
- William D. Baker (1956).....*Director, General Education Division*
B.A. (Hobart); M.A. (Chicago); Ph.D. (Northwestern)
- Charles E. Ball (1956).....*Associate Professor of Industrial Arts*
B.S. (Buffalo State); M.A. (New York University)
- Margaret Barkley (1955).....*Professor of Home Economics*
B.S. (Millikin); M.S., Ed.D. (Illinois)
- William J. Barnett (1950).....*Associate Professor of Education*
B.E. (Brockport); Ed.M. (Rochester); Ed.D. (Buffalo)
- Carlton E. Bauer (1956).....*Professor of Art*
B.S., M.A., Ph.D. (New York University)
- Murray Bloustein (1955).....*Associate Professor of*
Exceptional Children Education
B.S.S. (C.C.N.Y.); M.A., Ed.D. (Columbia)

** On leave.

- Allen Bobroff (1957) . . . *Professor of Exceptional Children Education*
B.S. (Michigan); M.Ed. (Wayne)
- Joseph A. Bolinsky (1954) *Associate Professor of Art*
B.S. (New Jersey State); M.A. (Columbia); M.F.A. (Iowa)
- William M. Bowers (1957) *Assistant Professor of Industrial Arts*
B.S. (Oswego); M.A. (Florida)
- Silas L. Boyd (1943) *Professor and Chairman of the
Department of Music*
A.B. (St. Olaf); B.ofMus.Ed. (Northwestern); M.A. (New York University)
- Arthur L. Bradford (1946) *Professor of English*
A.B., M.S. (Missouri); Ph.D. (Peabody)
- Jean D. Bradley (1953) . . . *Assistant Professor of Elementary Education,
Campus School*
B.S. (Buffalo State)
- Raymond S. Bradley (1952) *Associate Professor of Health and
Physical Education, Campus School*
B.S. (Cortland); M.S. (Syracuse)
- George C. Brady (1953) *College Physician*
A.B. (Cornell); M.A., M.D. (Buffalo)
- Sarah R. Brinsmaid (1951) *Assistant Professor of Health and
Physical Education, Campus School*
B.E. (Brockport); M.A. (New York University)
- Donald G. Brossman (1941) *Associate Professor of Industrial Arts*
B.S. (Buffalo State); M.A. (New York University)
- Edmund A. Brown (1948) *Associate Professor of History*
B.A. (Amherst); M.A. (Yale); Ph.D. (Columbia)
- Kenneth W. Brown (1953) *Director, Industrial Arts Education
Division*
B.S., M.S. (Kansas State); Ph.D. (Ohio State)
- Richard C. Brown (1952) *Associate Professor of History*
B.S. (Ohio State); M.A. (Colgate); Ph.D. (Wisconsin)
- Sibyl Browne (1958) *Visiting Professor of Art*
A.B. (Winthrop); B.S., M.S. (Columbia)
- Eric Brunger (1954) *Associate Professor of Social Studies*
B.E. (Oswego); M.S., Ph.D. (Syracuse)
- Ruth M. Buddenhagen (1945) *Associate Professor of
Home Economics*
B.S. (Buffalo State); M.A. (Columbia)
- Anna P. Burrell (1948) *Professor of Education*
B.S., M.S. (Pennsylvania); Ph.D. (New York University)
- H. Virginia Butler (1944) *Associate Professor of Home Economics*
B.S. (Buffalo State); A.M. (Columbia)
- Louis J. Callan (1946) *Professor of Industrial Arts*
B.S. (Buffalo State); M.A., Ph.D. (Ohio State)
- David A. Cappiello (1948) *Assistant Professor of
Industrial Arts*
B.S. (Buffalo State); M.S. (Cornell)
- Nicholas J. Carriero (1955) *Registrar*
B.S. (Canisius)

- Marian Lucia Carroll (1954) . . . *Professor of Education and Director,
Child Study Center*
B.A. (Buffalo); M.A., Ed.D. (Columbia)
- Zella May Case (1950) *Assistant Professor of Art*
B.A., M.A. (Iowa)
- John W. Cataldo (1955) *Assistant Professor of Art*
B.S. (Massachusetts School of Art); M.A. (Columbia)
- Helen Cawley (1955) *Associate Professor of Home Economics*
A.B., B.S. (West Virginia); M.S. (Minnesota); Ed.D. (Pennsylvania)
- Rudolph J. Cherkauer (1948) *Associate Professor of Mathematics*
B.S. (Buffalo State); Ed.M., Ed.D. (Buffalo)
- Mary Edith Cochnower (1947) *Professor of English*
B.S., M.A. (Cincinnati); Ph.D. (Iowa)
- Mildred M. Concannon (1948) *Associate Professor of Elementary
Education, Campus School*
B.S. (Albany State); M.A. (New York University)
- Clarence A. Cook (1947) *Professor of Industrial Arts*
B.S. (Buffalo State); M.S. (Cornell); Ed.D. (Buffalo)
- Hubert E. Coyer (1932) *Associate Professor of Health Education*
B.P.E. (Springfield); Ed.M. (Buffalo)
- Sylvia Arend Cragun (1949) . . . *Assistant Professor of Home Economics*
B.S., M.S. (Buffalo State)
- Sherman G. Crayton (1937) *Professor of Education*
A.B. (Franklin); A.M., Ph.D. (Indiana)
- Robert N. Crossley (1956) *Professor of Social Studies*
B.A. (Oberlin); A.M. (Michigan)
- Stanley A. Czurlis (1931) *Director, Art Education Division*
B.F.A., M.F.A. (Syracuse); Ph.D. (Iowa)
- Eugene L-G Dakin (1947) *Associate Professor of Art*
B.S. (Milwaukee); M.A., Professional Diploma (Columbia)
- Stanley Dickson (1956) *Associate Professor of Exceptional
Children Education*
B.A., M.A. (Brooklyn)
- Edith Batchelder Douglas (1951) *Assistant Professor of
Home Economics*
B.S., M.Ed. (New Hampshire)
- Fraser B. Drew (1945) . . . *Professor and Chairman of the Department
of English*
A.B. (Vermont); A.M. (Duke); Ph.D. (Buffalo)
- Margaret Dupre (1930) *Associate Professor of Science*
B.S. (Texas State College for Women); A.M. (Columbia)
- Richard G. Durnin (1952) *Assistant Professor of Education*
B.S. (Columbia); M.Ed. (Harvard)
- Reuben S. Ebert (1934) *Professor and Chairman of the
Department of Mathematics*
B.E. (Normal, Ill.); A.M. (Columbia); Ph.D. (New York University)
- Theodore E. Eckert (1953) *Professor of Science*
A.B. (Albany State); M.S., Ph.D. (Cornell)
- Doris Kerns Eddins (1947) *Associate Professor of Education*
B.S. (Bowling Green); A.M. (Chicago); Ed.D. (Michigan State)
- Neal R. Edmund (1956) *Associate Professor of Education*
B.A., M.A., Ed.D. (Syracuse)

- Catherine A. English (1953) *Associate Professor of Music*
B.S. (Potsdam); Ed.M. (Temple)
- Janet Doub Ericskon (1957) *Assistant Professor of Art*
B.F.A. (Massachusetts School of Art)
- Gerhard J. Falk (1957) *Assistant Professor of Social Studies*
B.A. (Cleveland College); M.A. (Western Reserve)
- Thed E. Farra (1957) *Instructor in General Education*
B.A., M.A. (Columbia); B.D. (Drew)
- Velma J. Febel (1956) *Assistant Professor of Elementary Education, Campus School*
B.Ed., Ed.M. (Buffalo)
- Elsie Michaels Ferm (1956) *Assistant Professor of Education*
B.S., M.S. (Buffalo State)
- Abel King Fink (1956) *Assistant Professor of Education*
B.A. (Brooklyn); M.A., Ed.D. (Columbia)
- John Fontana (1929) *Professor of Industrial Arts*
B.S. (Buffalo State); A.M. (New York University); Ed.D. (Buffalo)
- Lora M. Frazee (1956) *Associate Professor of Education*
B.S. (Georgia State); M.Ed. (Duke); Ed.D. (Peabody)
- Raymond M. Fretz (1929) *Professor of Science*
B.S., A.M. (Columbia); Ph.D. (Niagara)
- Martin B. Fried (1948) *Professor of English*
B.S. (Buffalo State); M.A. (Harvard); Ph.D. (Chicago)
- Betty Gallagher (1946) *Associate Professor of Exceptional Children Education*
B.S. (Buffalo State); M.A. (Michigan)
- Hertha Specht Ganey (1934) *Professor of English, Campus School*
A.B. (Albany State); A.M. (Columbia)
- Meribah S. Gardiner (1947) *Associate Professor of Elementary Education, Campus School*
B.S. (Bucknell); M.S. (Temple)
- Steven Gittler (1955) *Assistant Professor of Education and Associate Dean of Students*
B.A. (Lake Forest); M.A. (Washington State)
- Joan F. Godfrey** (1955) *Assistant Professor of Elementary Education, Campus School*
B.S., M.S. (Buffalo State)
- Mina S. Goossen (1927) *Professor of English and Dramatics*
B.O.E. (Syracuse); A.M. (Southern California)
- Eleanor M. Gover (1926) *Associate Professor of Elementary Education, Campus School*
B.S. (Buffalo); M.A. (Columbia)
- Andrew W. Grabau (1925) *Associate Professor of English*
B.S. (Buffalo); M.A. (Columbia)
- Wilson Barr Gragg (1949) *Professor of English*
A.B. (Illinois); A.M., Ph.D. (Northwestern)
- Margaret A. Grant (1937) *Director, Home Economics Education Division*
B.S. (Buffalo State); M.S. (Cornell); Ed.D. (Buffalo)
- Wallace F. Green (1956) *Associate Professor of Art*
B.S., M.S. (Wisconsin)

** On leave.

- Rhoda Y. Greenwood (1957) *Assistant Professor of English*
A.B. (Transylvania); M.A. (Wittenberg)
- Walter B. Greenwood (1950) *Professor of English and Director of Summer Session*
A.B. (Transylvania); M.A. (Columbia); Ph.D. (Cincinnati)
- Benjamin F. Gronewold (1947) *Professor of English*
B.A. (North Central); M.A. (Wisconsin); Ph.D. (New York University)
- Morton S. Grossman (1956) *Associate Professor of Art*
B.A. (Queens)
- Robert E. Haberer (1956) *Assistant Professor of Art*
B.S. (Buffalo State); M.A. (Columbia)
- Thelma Haines (1955) *Assistant Professor of Elementary Education, Campus School*
B.S., M.S. (Buffalo State)
- Loretta Regan Hanover (1952) *Assistant Professor of Elementary Education, Campus School*
B.S., M.S. (Buffalo State)
- Owen Harlan (1946) *Associate Professor of Industrial Arts*
B.E. (Eastern Illinois); M.A. (Minnesota); Ed.D. (Missouri)
- Frank K. Harman (1955) *Professor of Science*
B.A., B.Sc., M.Sc., Ph.D. (Ohio State)
- Kathryn Harries (1953) *Assistant Dean of Students (College Union)*
B.A. (Iowa State Teachers); M.A. (Northwestern)
- Lloyd H. Heidgerd (1957) *Assistant Professor of Science*
B.A. (Oberlin); M.A. (Columbia)
- Lyle H. Hemink (1956) *Associate Professor of Education*
Ed.B. (Fredonia); Ed.M., Ed.D. (Buffalo)
- Frances G. Hepinstall (1930) *College Librarian*
B.S. (Syracuse); M.S. (Columbia)
- Oscar E. Hertzberg (1930) *Professor and Chairman of the Department of Education*
A.B. (Wisconsin); A.M., Ph.D. (Columbia)
- Carolyn W. Heyman (1930) *Associate Professor of Art*
B.S. (Western Reserve); A.M. (New York University)
- Paul A. Hilaire (1956) *Associate Professor of Mathematics*
B.S. (Buffalo State); M.Ed. (Pittsburgh)
- Harlan E. Hoffa (1953) *Assistant Professor of Art*
B.S., M.Ed. (Wayne)
- Charles R. Hoffer (1956) *Associate Professor of Music*
B.M. (Michigan State); M.M. (Eastman); Ph.D. (Michigan State)
- Frederick J. Hollister (1948) *Professor of Sociology*
A.B. (Union); M.A. (Albany State); Ph.D. (Syracuse)
- Katherine S. Holmes (1955) *Assistant Professor of Science*
B.S., B.S. in L.S., Ed.M. (Buffalo)
- Paul Homer (1954) *Assistant Professor of Music*
B.A., M.A. (Columbia)
- Ralph Horn (1936) *Dean*
A.B. (Ashland); M.A., Ph.D. (Ohio State)
- Julius J. Hubler (1948) *Professor of Art*
B.S. (Southeast Missouri); M.A., Ed.D. (Columbia)

- E. Eugene Irish (1957) *Associate Professor of Science*
B.A. (Wisconsin State); M.A., Ph.D. (Michigan)
- Mary L. Jamison (1928) *Associate Professor of Elementary Education, Campus School*
B.S., M.A., Professional Diploma (Columbia)
- Bernard A. Jenson (1956) *Assistant Professor of English and Publicity Officer*
B.S. (New Jersey State); M.A. (Columbia)
- Otto A. Jiskra (1952) *Assistant Professor of Art*
B.S., M.A. (Ohio State)
- Lloyd M. Jones (1957) *Professor and Chairman of the Department of Health Education*
A.B. (Wichita); M.A. (Kansas State Teachers); Ph.D. (Columbia)
- Ruth McLean Karcher (1930) *Associate Professor of Art*
A.B. (Ohio Wesleyan); A.M. (Columbia)
- Lawrence S. Katzman (1954) *Assistant Professor of Health Education and Chairman, Department of Athletics*
B.A. (Syracuse); Ed.M. (Buffalo)
- Eleanor G. Kelly (1947) *Associate Professor of Education*
B.S. (Buffalo State); M.A., Professional Diploma (Columbia)
- Lenore Kemp (1950) *Assistant College Librarian*
B.S. (Buffalo State); B.S. in L.S. (Buffalo)
- Edgar King (1948) *Associate Professor of Elementary Education, Campus School*
B.A. (Alfred); M.Ed. (Rochester); Ed.D. (Buffalo)
- Henry Klomp (1955) *Assistant Professor of English*
A.B. (Calvin); M.A., Ph.D. (Michigan)
- Gordon J. Klopff (1952) *Dean of Students*
B.S., Ph.M., Ph.D. (Wisconsin)
- Inez M. Knapp (1934) *Associate Professor of Elementary Education, Campus School*
B.S. (Buffalo); M.A. (Columbia)
- Charles P. La Morte (1955) *Assistant Professor of Administration and Assistant to the President*
A.B., M.A., Ed.D. (Columbia)
- Richard H. Lampkin (1950) *Professor of Science*
A.B., B.Ed., M.Ed. (Cincinnati); Ph.D. (Columbia)
- Morton R. Lane (1955) *Senior Financial Secretary*
B.S. (New York University)
- Lorraine A. Lange (1948) *Professor of Education*
B.A. (Iowa State); M.A., Ph.D. (Ohio State)
- M. Jane Morris La Rocque (1956) *Assistant Professor of Health and Physical Education*
B.S. (Brockport); Ed.M. (Buffalo)
- George Laug (1949) *Associate Professor of Science*
B.S., M.S. (Syracuse)
- Wilma Laux (1949) *Assistant Professor of Geography, Campus School*
B.S. (Buffalo State); M.A. (Ohio State)
- Edna Meibohm Lindemann (1946) *Associate Professor of Art*
B.S. (Buffalo); M.A. (Northwestern); Ed.D. (Columbia)

- Harold R. Lofgren (1949) *Professor of Art*
B.S. (Miami); M.A. (Columbia)
- Robert W. MacVittie (1953) *Director, Elementary Education Division*
B.E. (Oneonta); M.A., Ed.D. (New York University)
- Angela M. Manetti (1957) *Assistant Dean of Students*
B.S. (California (Pa.) State); M.S. (Indiana)
- Horace Mann (1953) *Director, Exceptional Children Education Division*
A.B. (Brooklyn College); A.M. (Columbia); Ph.D. (Penn State)
- Anna A. Martorana (1946) *Associate Professor of Education*
B.S. (Buffalo State); M.A. (Columbia); Ph.D. (Minnesota)
- Lester B. Mason** (1940) *Professor of History*
A.B. (Dartmouth); A.M. (Columbia); Ph.D. (Cornell)
- T. Dolores Rousseau Mason (1943) *Associate Professor of Elementary Education, Campus School*
B.S., M.A. (Columbia)
- F. Patrick McCabe (1956) *Assistant Professor of Elementary Education, Campus School*
B.S., M.S. (Buffalo State)
- John R. Y. McRae (1954) *Associate Professor of English*
B.A. (Western Ontario); M.A., Ph.D. (Toronto)
- Charles A. Messner (1926) *Professor and Chairman of the Department of Foreign Languages*
A.B. (Wabash); A.M. (Chicago); A.M., Ph.D. (Harvard)
- Howard J. Meyer (1950) *Assistant Professor of Industrial Arts*
B.S. (Buffalo State); Ed.M. (Buffalo)
- Anthony Milanovich (1950) *Professor of Education and Coordinator of Student Teaching*
B.S., M.S. (Indiana State); Ph.D. (Ohio State)
- Rex Miller (1957) *Assistant Professor of Industrial Arts*
B.A. (Iowa State Teachers); M.A. (Colorado State)
- Edward L. Morrice (1926) *Associate Professor of Industrial Arts*
B.S. (Buffalo State); M.A. (Buffalo)
- Theodore C. Moss (1955) *Professor of Education and Coordinator of Placement*
B.Ed. (Fredonia); M.A. (Columbia); Ed.D. (Buffalo)
- Ruth Slacer Muck (1942) *Associate Professor of Elementary Education, Campus School*
B.S., M.S. (Buffalo State)
- Valentine J. Nadolinski (1947) *Assistant Professor of Science*
B.A., M.A. (Buffalo)
- Emerson E. Neuthardt (1946) *Professor of Industrial Arts*
B.S. (Oswego); M.A. (New York University); Ed.D. (Buffalo)
- Meta Norenberg** (1947) *Assistant Professor of English*
B.A. (Western Union); M.A. (Nebraska)
- Mae O'Brien (1931) *Professor of Education*
B.S., M.A., Ph.D. (Columbia)
- George D. O'Connell (1954) *Assistant Professor of Art*
B.S., M.S. (Wisconsin)
- William C. Palmeter, Jr. (1948) *Assistant Professor of Industrial Arts*
B.S., M.S. (Buffalo State)

** On leave.

Elizabeth Goode Penn (1947) *Professor of Education*
B.S. (New Jersey State); M.A., Ed.D. (Columbia)

Harold F. Peterson (1933) *Professor of History and Chairman of
the Department of Social Studies*
A.B. (Knox); M.A. (Minnesota); Ph.D. (Duke)

Julia C. Piquette (1952) ... *Assistant Professor of English and Speech*
B.S., M.A. (Northwestern)

Leonard J. Poleszak (1956) *Assistant Professor of Industrial Arts*
B.S. (Buffalo State)

Mary Elizabeth Pratt (1952) *Assistant Professor of Education*
B.E. (Cortland); M.A. (Columbia)

June Bosworth Provenzano (1948) *Assistant Professor of Health
Education*
B.S. (Indiana); M.Ed. (Penn State)

Bernard P. Prudhomme (1956) ... *Associate Professor of Geography*
Baccalauréat ès Arts (University of Paris); License ès Lettres (University
of Montreal); Doctorat ès Lettres (University of Grenoble)

Wilton Pruitt (1956) *Associate Dean of Students*
B.A. (Winthrop); M.A., Ed.D. (Columbia)

Van E. Quaal (1957) *Assistant Professor of Education and
Assistant to the Dean*
A.B. (Northern Michigan College); A.M. (Michigan)

Loraine M. Raps (1951) *Nurse-Assistant Professor*
R.N. (Buffalo General); B.S. (Buffalo)

Robert T. Redden (1950) *Associate Professor of Geography
and Chairman of the Department*
B.E. (Geneseo); M.Ed. (Rochester)

Richard B. Reinholtz (1956) *Assistant Professor of Art*
B.S., M.Ed. (Minnesota)

Harvey M. Rice (1951) *President*
A.B. (Concord); M.A. (West Virginia); Ph.D. (Ohio State)

Edward W. Richards (1957) *Instructor in History*
A.B. (Oberlin); M.A. (Wisconsin)

Gertrude E. Roach (1925) ... *Associate Professor of Health Education*
R.N. (Buffalo General); B.S. (Buffalo State); M.A. (New York Uni-
versity)

Darrol E. Robinson (1957) *Assistant Professor of Education*
B.A., M.A. (Maine)

Houston T. Robison (1949) *Professor of History*
B.S., M.S. (Oregon); Ph.D. (Chicago)

Cecil T. Rodney (1948) *Professor of Mathematics*
B.S. (St. Lawrence); M.A. (Columbia); Ed.D. (Buffalo)

Mildred Schlei Roeser (1940) *Associate Professor of History*
B.S., M.A., Ed.D. (Buffalo)

David A. Rogers (1950) *Assistant Professor of History*
B.A., M.A. (Buffalo); Ph.D. (Wisconsin)

Leo F. Romaniuk (1956) *Assistant Professor of Elementary
Education, Campus School*
B.S., M.S. (Buffalo State)

Jerry A. Rose (1957) *Assistant Professor of English*
B.A. (John Hopkins); M.A. (State University of Iowa)

Marie L. Rosso (1956) ... *Assistant Professor of Art, Campus School*
B.S. (Buffalo State); M.A. (Ohio State)

Alma R. Roudebush (1934) *Professor of Home Economics*
B.S. (Ohio State); M.A. (Columbia); Ph.D. (Ohio State)

Charles A. Rouse (1957) *Assistant Professor of Science*
B.A. (Alfred); M.A. (Syracuse)

Ellsworth M. Russell (1948) *Professor of Industrial Arts*
B.E. (Eastern Illinois); M.S. (Iowa State); Ed.D. (Penn State)

Conrad J. Schuck (1947) *Associate Professor of English*
A.B. (Dartmouth); M.A. (Harvard)

Marguerite Stockberger Scott (1931) ... *Associate Professor of Social
Studies, Campus School*
A.B. (Indiana); M.A. (Columbia)

Howard G. Sengbusch** (1951) *Professor of Science*
B.S. (Buffalo State); Ed.M. (Buffalo); M.S., Ph.D. (New York Uni-
versity)

Allen G. Sexton (1953) *Associate Professor of History*
B.S. (Buffalo State); M.A., Ed.D. (Buffalo)

Sigurd W. Sheel** (1945) *Associate Professor of Science*
B.A. (Luther); M.S. (Iowa)

George R. Sherrie** (1947) *Professor of Education*
B.S. (Buffalo State); Ed.M. (Buffalo); Ed.D. (Syracuse)

J. Stephen Sherwin (1956) *Associate Professor of English*
B.S. (Wisconsin); M.A. (Columbia); Ed.D. (New York University)

Peter Simonette (1955) *Assistant Professor of Spanish*
A.B. (Salem); A.M. (West Virginia)

Marguerite M. Smith (1954) *Assistant Professor of Elementary
Education, Campus School*
B.S. (Alabama); M.Ed. (Pennsylvania)

Ralph L. Smith (1949) *Associate Professor of English*
B.S. (Buffalo State); M.A. (Iowa)

Miriam L. Spaulding (1948) *Assistant Professor of Health
and Physical Education*
A.B. (Boston); M.A. (Peabody)

James R. Spence (1955) *Coordinator of Field Services*
B.A., M.A. (Albany)

Robert Squeri (1955) *Associate Professor of Art*
B.A. (Brooklyn); M.A., Ed.D. (Columbia)

George K. Stark (1954) *Assistant Professor of Art*
B.S. (Buffalo State); M.A. (Columbia)

Harold J. Steffen (1946) *Associate Professor of Industrial Arts*
B.S. (Buffalo State); Ed.M. (Buffalo); Ph.D. (Cornell)

Benjamin Steinzor (1953) *Associate Professor of Industrial Arts*
B.S. (New York University); M.E. (Alfred)

Bernard Stern (1957) *Assistant Professor of Social Studies*
A.B. (Brooklyn); A.M. (Columbia); M.P.A. (Harvard)

** On leave.

Sarah Sterrett (1949) . . . *Assistant Professor of Elementary Education,*
B.A. (University of Wales); M.S. (Buffalo State) *Campus School*

Lenore H. Stewart (1956) . . . *Nurse, Student Health Service*
R.N. (Buffalo General)

Richard A. D. Stewart (1950) . . . *Professor of Family Life*
B.A., M.A. (Toronto); Ph.D. (Columbia)

Ruth Sugarman (1946) . . . *Principal, Campus School*
B.S. (Buffalo State); M.A. (Northwestern); Ed.D. (Buffalo)

Janet E. Swayne (1957) . . . *Professor of Home Economics*
B.S. (Indiana (Pa.) State); M.Ed. (Pennsylvania State University)

William H. Tallmadge (1949) . . . *Associate Professor of Music*
B.M., M.M. (Oberlin)

Irving H. Tesmer (1957) . . . *Assistant Professor of Science*
B.A., M.A. (Buffalo); Ph.D. (Syracuse)

Clement T. Tetkowski (1949) . . . *Associate Professor of Art*
B.S. (New Jersey State); M.A. (Columbia)

David H. Thielking (1948) . . . *Assistant Professor of Science*
B.S. (St. Lawrence); Ed.M., Ed.D. (Buffalo)

Helen Rimkus Thielking (1946) . . . *Assistant College Librarian*
B.S., M.S. (Albany State)

Trevor Thomas (1957) . . . *Visiting Professor of Art*
B.A. (University of Wales)

LuAnne Thompson (1957) . . . *Assistant Professor of Elementary*
B.S. (Bowling Green) *Education, Campus School*

Bernard A. Thorsell (1955) . . . *Assistant Professor of Sociology*
B.S., M.A. (Illinois)

Donna Smith Tomaka (1957) . . . *Associate Professor of Science*
B.A. (Buffalo); Ed.M. (Rochester); M.S. (Buffalo State)

Doris M. Trafton (1957) . . . *Assistant Professor of Elementary*
B.S. (New Hampshire); M.S. (Syracuse) *Education, Campus School*

Herman Trubov (1957) . . . *Professor of Education and Coordinator*
of Audio-Visual Education
B.F.A. (Ohio University); M.A. (Columbia); Ph.D. (Syracuse)

Donald W. Trueblood (1953) . . . *Assistant Professor of English*
B.S. (Eau Claire); M.A. (Northwestern)

Norman F. Truesdale (1947) . . . *Professor of Art*
B.S. (Buffalo State); Ed.M., Ed.D. (Buffalo)

Eugenia R. Truesdell (1952) . . . *Assistant College Librarian*
A.B. (Elmira); B.S. (Syracuse)

Madeline K. Turner (1953) . . . *Nurse-Assistant Professor*
R.N. (Buffalo General); B.S. (Buffalo)

John Urban (1946) . . . *Professor and Chairman of the*
B.S. (Kent State); A.M., Ph.D. (Columbia) *Department of Science*

Burton S. Waagen (1946) . . . *Associate Professor of Elementary*
B.S. (Duluth); M.A. (Columbia) *Industrial Arts*

Mazie Earle Wagner (1950) . . . *Professor of Education*
B.A., M.A. (Buffalo); Ph.D. (Columbia)

Norman F. Weaver (1950) . . . *Associate Professor of History*
B.A. (Ball State); M.S., Ph.D. (Wisconsin)

Pauline A. Weaver (1948) . . . *Associate Professor of Home Economics*
B.S. (Ohio State); M.A. (Columbia)

Mildred C. Wells (1957) . . . *Professor of Education*
B.A. (State University of Iowa); M.A., Ph.D. (Ohio State)

Katheryne Thomas Whittemore (1925) . . . *Director, Arts and*
A.B. (Vassar); A.M., Ph.D. (Clark) *Sciences Division*

Sherwood Ann Wilson (1956) . . . *Assistant Professor, Child*
B.S., M.A. (Kansas) *Study Clinic*

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

D. Kenneth Winebrenner (1939) . . . *Professor of Art*
B.S. (Indiana (Pa.) State); M.A., Ed.D. (Columbia)

Roland Wise (1955) . . . *Assistant Professor of Art*
B.F.A. (Manitoba)

Anne Zierleyn (1955) . . . *Assistant Dean of Students (Residence Halls)*
B.A., M.A. (Michigan State)

LaVerne R. Zimmer (1952) . . . *Assistant Professor of English and*
B.E. (Geneseo); M.A. (Stanford) *Mathematics, Campus School*

Public School No. 52

(276 Bird Avenue, Buffalo 13, New York)

(Affiliated with the College)

Ford R. Park, Ph.B., Ed.M. *Principal*

Marie Bullock, B.S., Ed.M. *Seventh Grade*

Mary L. Darker, B.S. in Ed. *First Grade*

Mary J. Doe *Third Grade*

Eleanor Ericsson, B.Ed. *Seventh Grade*

Ruth F. Fischer, B.S., M.Ed. *Kindergarten*

Marie Fitzpatrick, B.S., M.Ed. *Third Grade*

Dorothy A. Green, B.S. *Fifth Grade*

Elizabeth Harbison, B.S., M.A. *Eighth Grade*

Barbara J. Harrington, B.S., M.Ed. *Art*

Georgina S. Haskill, B.S., M.A. *First Grade*

Maire Kerr, B.S., M.Ed. *Eighth Grade*

Alice E. Krenning, B.S., M.Ed. *Sixth Grade*

Dolores Desmon Meyer, B.S., M.S., M.Ed. *Fourth Grade*

Ellen C. Mockler, B.A., M.A. *Second Grade*

Martha G. Mulligan, B.S., Ed.M. *Fifth Grade*

Viola Dohrman Pierce, B.S., M.S., M.Ed. *Sixth Grade*

Ruth R. Reiman, B.S., Ed.M. *Eighth Grade*

Irene Striker, B.S., M.A. *Second Grade*

Staff Personnel

Administrative Personnel

Kathryn S. Graham.....*Secretary to the President*
 Thomas Joseph Dewine.....*Custodian of Buildings and Grounds*
 June Halton Truesdale, B.S.....*Placement Secretary*
 Florence Fowler, A.B.....*Library Assistant*
 Monica M. Gensbittel, B.S.....*Junior Librarian*
 Dorismae Kent, B.S.....*Junior Librarian*

Stenographic and Clerical Personnel

Dorothy Adams.....*Typist*
 Barbara Amabile.....*Stenographer*
 Elorie Boll.....*Stenographer*
 Evelyn F. Brennan, B.A.....*Senior Clerk*
 Beatrice Brigante.....*Typist*
 Sylvia Chaplin.....*Stenographer*
 Lorraine J. Cornell.....*Typist*
 Ann Marie Dart.....*Typist*
 Berdena C. Dolberg.....*Stenographer*
 Mabel Draper.....*Clerk*
 Frances Dubner.....*Senior Clerk*
 Eleanor N. Ellis.....*Stenographer*
 Dorothy Faragher.....*Stenographer*
 Eva L. Ferry.....*Account Clerk*
 Shirley Gambin.....*Stenographer*
 Patricia Golden Gerard.....*Stenographer*
 Catherine H. Gerwitz.....*Stenographer*
 Josephine C. Gostomski.....*Stenographer*
 Margel Holst.....*Stenographer*
 Olive Jeacock.....*Telephone Operator*
 Helen M. Johnson.....*Principal Account Clerk*
 Marilyn Jones.....*Stenographer*
 Pauline Katz.....*Stenographer*
 Doris V. Ledwin.....*Stenographer*
 Josephine Lo Curto.....*Typist*
 Mary Ann Lochnicht.....*Stenographer*
 Elizabeth Butor Moyer.....*Telephone Operator*
 Mary Ann Nowak.....*Stenographer*
 Sally M. Nowocin.....*Stenographer*
 Geraldine Ochocinska.....*Typist*
 Mildred Orrange.....*Stenographer*

Jane Di Addario Pauli.....*Senior Stenographer*
 Lucy Rackl Pfister.....*Stenographer*
 Isabelle Polder.....*Senior Stenographer*
 Frances G. Rahn.....*Senior Stenographer*
 Joan M. Saeli.....*Stenographer*
 Sylvia Saglian.....*Stenographer*
 Roberta Sandstone.....*Stenographer*
 Mildred Wieland Stalbird.....*Stenographer*
 Edna M. Swain.....*Typist*
 Ann Tiberia.....*Stenographer*
 Aileen Travers.....*Vari-Type Operator*
 Angela Valvo.....*Stenographer*
 Joan B. Vickerd.....*Typist*
 Ruth B. Walleshauser.....*Stenographer*
 William E. Wilson.....*Dictating Machine Transcriber*
 Cecelia Wood.....*Senior Account Clerk*

Faculty-Student Association Personnel

Food Service Division

Joseph P. Cannamela, A.S., B.S.....*Food Services Manager*
 Dorothy B. Deering, B.S.....*Dietitian*
 Mary Ann Carrig, A.A.S.....*Supervisor*
 Rose Costantino.....*Supervisor*
 Annette Gagola, A.A.S.....*Supervisor*
 Carol Kauderer, A.A.S.....*Supervisor*
 Nellie Stutt.....*Supervisor*
 Barbara Wisniewsik, A.A.S.....*Supervisor*

Book Store Division

Charlot Moehlau Fetterman, B.S.....*Manager*
 Marietta Rindone Ferro.....*Assistant Manager*
 Dorothy Dettman Measer.....*Assistant in Bookstore*
 Alice Wolf Weikel.....*Assistant in Art Store*

Accounting Office

Robert E. Johnson.....*Corporation Supervising Accountant*
 James Manuel.....*Bookkeeper*
 Veronica M. Wielkie.....*Bookkeeper*

The College

THE STATE UNIVERSITY of New York College for Teachers 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:

- a. To give the student a broad cultural background in the principal fields of organized knowledge.
- b. To give the student a mastery of the field to be taught and a supporting knowledge of related fields.
- c. To help the student understand the important position of the teacher in the relationship between education and society.
- d. To aid the student to develop a personality that will prepare him for leadership in the school and the community.
- e. To help the student acquire a knowledge of child growth and development.
- f. To help the student understand and master the professional knowledges and skills needed for successful teaching.
- g. 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 in 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, kindergarten and the primary grades. Additional work will extend the certification to all grades of the elementary school.

3. *Early Secondary Education*—A specialization within the Elementary 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. *Elementary School Administration or Supervision*—A program in the Elementary Education Curriculum leading to certification as an elementary school principal or supervisor. This curriculum may begin on the undergraduate level and be completed in the Graduate Division.
7. *Home Economics Education*—A four-year curriculum leading to the degree of Bachelor of Science for teachers of Home-making in the elementary and secondary schools of New York State.
8. *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.
9. *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, and Industrial Arts.

The Campus and Buildings

The College, with a campus of over fifty acres, located on Elmwood Avenue opposite Delaware Park in the city of Buffalo, consists of thirteen buildings: Administration Building, President's Residence, Campus School, Gymnasium, Science Building, Temporary Classroom Building, Temporary Shop Building, College Union, Pioneer Hall, West Hall, North Hall, a new residence hall to be ready for occupancy September 1958, and the Edward H. Butler Library.

The Administration Building of Georgian Colonial design, facing Elmwood Avenue and Delaware Park, contains the offices of the President, Dean of the College, Registrar, Financial Secretary, Dean of Students, Director of the Graduate Division, Director of Elementary Education, Director of General Education, Director of Art Education and Director of Arts and Sciences. It includes the Admissions Office, Placement Office, Summer Session Office, Public Relations Office, Audio-Visual Office, Child Study Center, Health Center, classrooms and studios.

The Science Building, containing the offices of the Director of Home Economics and the Director of Industrial Arts, includes numerous classrooms, laboratories and shops.

The Campus School contains the offices of the Principal and the Director of Exceptional Children Education, and houses the Campus elementary school which 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.

The College Union contains the offices of the Assistant Deans of Students, Manager of Food Services, and Faculty-Student Association, and the Bookstore, and provides complete recreational facilities for the students, including the Alumni Lounge, Music Rooms, Activity Rooms, Game Room, Snack Bar and Dining Room.

North Hall, West Hall, Pioneer Hall and a newly constructed hall furnish dormitory residence for men and women students.

The Gymnasium provides facilities for instruction in Health Education and Physical Education as well as for intramural and inter-collegiate athletics and recreation. It includes a gymnasium, classroom, swimming pool, lockerrooms, and offices

The Home Management House located near the College, at 5 Granger Place, provides residence for Home Economics seniors gaining first-hand experience in the care and management of a home.

The Buffalo metropolitan area provides many educational and recreational institutions and facilities: the Albright Art Gallery, the Buffalo Historical Museum, the McKinley Vocational High School, and the Erie County Technical Institute (located in the immediate neighborhood of the College), and the Buffalo Museum of Science, Kleinhans Music Hall, the Buffalo and Erie County Libraries, the Studio Theater, Memorial Auditorium, Civic Stadium and Offerman Stadium (accessible by bus service).

The College is readily accessible by bus and car from all parts of the city and suburban areas, and is easily reached from railroad and bus terminals by following these procedures:

1. From the Blue Bus Terminal proceed two blocks west on Clinton Street to Main Street; take a West Utica bus north-bound and transfer at Elmwood and West Utica to an Elmwood bus which comes direct to the College.
2. From the Greyhound Bus Terminal board the West Utica bus opposite the Terminal and transfer to the Elmwood bus at West Utica and Elmwood.
3. From the New York Central Station take the Terminal bus to Franklin and Court Streets and transfer to the Elmwood bus.
4. From the Lackawanna, Baltimore and Ohio, and Lehigh stations take a number eight bus to Swan Street, walk two blocks to Franklin Street and take the Elmwood Avenue bus.

Admissions

ADMISSION TO THIS COLLEGE and to all other colleges of the State University of New York is based on the academic qualifications of the respective applicants, and is made without regard to the race, color, creed, or national origin of individuals.

Applicants for admission, either as freshman students or as students with advanced standing, should be able to meet the following requirements and should proceed as outlined. Application materials are provided for those who are interested and arrangements made for campus visits and conferences.

Freshman Admissions:

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. The completion of sixteen or more units of high school work. There are no specified course requirements other than basic courses required for graduation from an approved high school.
3. Applicants must be at least sixteen years of age.
4. Satisfactory high school grades.
5. Entrance Examinations as provided by the State University of New York.
6. A personal interview at a time and place arranged by the College Admissions Officer.
7. A health report submitted by a physician on a State University Teachers College Medical Examination Form. This report must indicate that the applicant is free from physical defects or diseases which would make him incapable of fulfilling the duties expected of a teacher.

Applicants to the Art Education, Home Economics, or Industrial Arts Divisions should refer to appropriate sections of this catalog for more specific requirements. Final decision on an application is made on the basis of all of the above considerations.

Application Procedure:

1. Fill out first page of the application and submit it to the high school guidance counselor or principal who will complete and forward it to the College. Applications may be filed any time in the senior year of high school; a supplementary report of final grades will be sent to the College by the high school principal. Applications of those who have graduated from high school should contain the complete four-year record. Secure application from the high school principal or from the Admissions Office, State University of New York, College for Teachers, Buffalo 22.
2. Take the State University Teachers College Entrance Examinations. Information about the time and place of these examinations may be secured from the high school guidance counselor or principal.
3. Submit the health report.
4. Request an appointment for a personal interview. Generally, the College Admissions Committee schedules these for the applicants.
5. Complete and return the Personal Inventory Form which records your interests, aptitudes and achievements.

Applicants accepted for admission are expected to 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 Chairman of Admissions. Those absent without permission relinquish their status to those on a waiting list. Rejected applicants who enter other institutions will not be eligible for transfer later to this College.

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.

Admission with Advanced Standing:

1. Applicants for admission with advanced standing must apply to the Chairman of Admissions on an Advanced Credit Application Form which may be secured from his office.

2. Applicants must submit an official transcript* of all college work taken elsewhere and evidence of honorable dismissal. If the applicant is not admitted, the official transcript will be returned upon request, to the college issuing it.
3. Applicants must meet all general requirements including personal interview and health report.
4. Applicants of freshman and sophomore rank are required to take the State University Teachers College Entrance Examinations. All applicants transferring from other State University Teachers Colleges should have copies of their Entrance Examination scores sent to Buffalo from the college previously attended.
5. A graduate of the two or three-year Normal School Course applying for admission to the fourth-year class is required to file an application and have an official transcript of his record sent directly to: Registrar, State University of New York, College for Teachers, Buffalo 22.
6. All candidates for a degree must complete a minimum of one year of work (32 semester hours) in residence at the College. Candidates from other colleges offering three years of credit are required to complete all remaining work in residence. Extension and Summer Session credit earned in classes on campus, as well as credit earned in the Regular Session, is accepted in meeting the residence requirement.
7. To qualify for graduation, a candidate is required to earn an average grade of C or higher in all work completed in the College.

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

Student Expenses

NO TUITION IS CHARGED to residents of New York State, but students from other states pay three hundred dollars each year. Tuition is payable one hundred and fifty dollars each semester.

Required Student Expenses

	<i>First Semester</i>	<i>Second Semester</i>	<i>Total</i>
Registration Fee	\$ 2.50	\$ 2.50	\$ 5.00
Combined Fee	25.00	25.00	50.00
Student Associations Collections	21.50	15.50	37.00
Insurance Premium	8.00	8.00	16.00
	<hr/> \$57.00	<hr/> \$51.00	<hr/> \$108.00

Consult curriculum description section for the additional expenses of books, supplies and equipment.

Room and Board in College Residence Halls

\$300.00 \$300.00 \$600.00

Board includes breakfast and dinner. Lunches average fifty cents in the cafeteria, adding approximately \$100.00 for the year. Room and board payments (subject to change if necessary) may be made in quarterly installments.

Room and Board in Off-Campus Residences

These residences vary in cost from \$15.00 to \$25.00 per week depending upon facilities and location. See section on Student Residence for additional information.

Student Association Collections

The Student Association collects annually from students the Activity Tax, Athletic Tax, College Camp Tax, Health Service Tax, and Class Dues in one combined charge. For 1957-8 this charge totaling \$37.00 was collected at Registration Periods. At the First

Semester \$21.50 was collected and at the Second Semester Registration \$15.50 was collected. Students entering in the Second Semester will pay \$21.50. These funds are apportioned by the Student Congress and the Faculty-Student Association.

1. The College Union Tax 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.
7. The Accident and Sickness Insurance Premium of \$16.00 provides coverage all times during the college year, on or off the campus, including athletic and camp activities.

Payments to the College

Personal checks, money orders or bank drafts may be used for making payments to the College. Remittances for fees and room rent should be made payable to State University College for Teachers at Buffalo. Payments for board should be made payable to the Faculty-Student Association.

The College does not have check cashing facilities. Students are advised to establish an account at a local bank.

Student Services

Office of the Dean of Students

The Staff of the Office of the Dean of Students consists of a Dean, two Associate Deans, three Assistant Deans, College Physician, Health Coordinator, College Nurse, and a Counselor.

This office engages in the following activities:

1. Coordinates the social and recreational program.
2. Provides student counseling services.
3. Supervises all housing and food services.
4. Administers the Veterans' program.
5. Provides health services.
6. Administers the financial aids program.

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

Student Residence

All students who do not live in Buffalo are required to live in Residence Halls on the Campus if space is available.

Residence for Women Students—North Hall, West Hall and South Hall provide living accommodations for five hundred and sixty women students. Most rooms have facilities for two students; a few are equipped for triple occupancy. Each has beds, built-in wardrobes and dressers, and study desks. Lounges and recreational facilities for women living in these halls are provided in West Hall, and laundry rooms with washers and dryers are provided in all halls.

Women students in all Halls provide their own bed linen, pillows, blankets, bedspreads, window draperies, study lamps, and irons. They have breakfast and dinner in the Dining Hall of the College Union. Lunch and snacks are available in the cafeterias and

the Snack Bar. The fees for Residence Halls are listed under Student Expenses. Applications should be addressed to the Assistant Dean of Students in charge of the Residence Halls.

Off-Campus Residences—Off-campus residences for students in nearby private homes approved by the College supplement the facilities on campus. Some of these homes permit students to earn their maintenance. There are also some 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 Office of the Dean of Students.

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 Office of the Dean of Students. 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 Service facilities in the Administration Building where first aid and general health services may be secured Monday through Friday. The College Physician is available for one hour each day.

Preadmission Health Requirements—The College requires all students to secure an examination by a physician, a chest x-ray, a urinalysis and a recent vaccination (within three years) prior to admission to the College.

The Campus Health Program—The College Health Services provide medical examinations without additional charge for all freshmen, transfer students and seniors, as well as for all athletes prior to their engaging in competitive sports, and in such other cases as are needed. Necessary laboratory tests are made whenever advisable. An annual chest x-ray provided free by the Buffalo and Erie County Tuberculosis Association on the College campus is required by all students without exception. Students failing to take and pass all health examinations will not be admitted to class.

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 Tax, 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. These Junior Counselors work in close cooperation with the Faculty Advisers of Freshman students.

Freshman Orientation—The first week of the autumn semester known as Orientation Week 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. A one-hour course, Orientation, is required during the first semester for every new student.

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 is the living room of the College, providing a warm and friendly atmosphere for the College campus, as well as a home for students living in the adjoining Residence Halls. It is the logical and ideal spot for integrating the social, educational, and cultural experiences of the College Community. Here, the relationship between faculty and students is strengthened by informal associations within a social setting. The Union provides many opportunities for democratic living, for student leadership, for creative self-expression, and for the development of a mature sense of social responsibility.

Campus Traditions—Some student activities have been so long a part of the College life that they have become traditions.

Freshman Camps for Women and for Men
Inter-class Sing
Faculty Reception for Freshmen
College Union Open House
Frosh-Soph Daze
The Dean's Tea
College Christmas Week
State Fair
Inter-sorority Sing
Leadership Conference
Alpha Tapping Ceremony
Home Economics Day
Parents' Weekend and Fine Arts Festival
Senior Weekend
Moving-Up Day
Alumni Day
Baccalaureate, Class Day and Commencement

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—Freshman, Sophomore, Junior, and Senior—conduct business and carry out special activities under the guidance of the class cabinets which are executive groups made up of the class officers.

The on-campus residences, North, West and South Halls, have their own elected governing associations. The Residence Centers Council consists of representatives from all student residences including those off campus. This council meets monthly primarily to consider the opportunities and problems involved in dormitory and off-campus living. The council sponsors a variety of activities to supplement and enrich the regular College recreational program.

Professional Groups—The Art Education Club for students of the Art Education Division is both professional and social. Activities of the club include the Annual Art Auction Sale, which not only promotes interest in owning original works but provides scholarship funds. The club sponsors professional trips to art meetings and galleries, including a trip to New York City. 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 (formerly Future Teachers of America) studies professional aspects of teaching, organizes field trips to places of interest and is active in interesting high school seniors in teaching as a career. 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 Associations 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, radio programs, and fashion shows.

The International Council for Exceptional Children is an affiliate of the international 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 special-

ists in the field. Visits are made to special schools and residential institutions.

The Science Society, is an organization for students of all departments having an interest in science activities and science in education.

The Industrial Arts Club promotes high standards and broadened interests in Industrial Arts education. A well-planned yearly program of social and educational activities includes industrial plant field trips, school shop visitations, student discussions, guest speakers, sports nights, and social events.

Cultural Groups—Casting Hall, the student dramatic organization, produces several plays each year, some written by famous playwrights, others written by local students. It offers, in addition to opportunities for acting, experiences in costume and stage set design and construction. Its production of full-length plays given in the fall and spring draw enthusiastic audiences from the student body, the faculty, and the community.

A Cappella Choir membership is determined by an audition, which emphasizes intonation, tone quality and musical ability. Concert engagements are presented annually including a pop concert with the Buffalo Philharmonic Orchestra, the Baccalaureate Service, and Commencement exercises.

Men's Glee Club membership is open to any man on campus who can qualify in an audition. The club participates in convocations, the Spring Musicale, and other concerts on- and off-campus.

Women's Glee Club membership is open to women students who qualify in an audition held at the beginning of each semester. This group performs for convocations, the Christmas play, local schools, Parent-Teacher Associations, and local churches.

Band membership is open to all students who can play an instrument satisfactorily. The band contributes to the life of the College through performance at convocation programs and athletic events. College-owned instruments are available for student use. Associated with the band are the Drillettes, Gunnerettes, and Majorettes.

Orchestra membership is open to all students who can satisfactorily play an instrument. Try-outs are held at the beginning of each semester. Associated with the orchestra are other instrumental ensembles which provide opportunities for solo performances. College-owned instruments are available for student use.

The Foreign Language Club is open to all students with an appreciation of the languages, the customs, and the cultures of the peoples

of the world. Its programs afford an opportunity for expression in dramatics, music, discussions and conversation.

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

The Human Relations Club is concerned with effective inter-group relationships in the campus community as well as on the local and national scene.

Nu Kappa Alpha, a debate and discussion organization, is open to students interested in participating in debate and discussion tournaments and activities on the campus and with other colleges.

Convocations held throughout the year provide special occasions when most of the students and the faculty can come together for a common purpose. The programs include recitals by the Buffalo Philharmonic Orchestra and other excellent musical groups, recognized soloists, distinguished political commentators, literary personages, and other presentations carefully selected for a college audience. There are also student-produced plays, musical programs, and traditional events that together make a rich phase of college life.

Religious Groups—Student Christian Association offers fellowship to men and women of any sect, creed or denomination who seek to gain a broader understanding of the Christian faith. The Association demonstrates faith through action by stimulating serious thought through discussions, study groups, and conferences with students of other colleges.

The Newman Club promotes the spiritual, intellectual and social interests of the Roman Catholic students. Its activities include study clubs, social activities, retreats, corporate communions, lectures, and joint meetings with the Newman Clubs of other colleges. The Newman Club is affiliated with the National Federation of College Catholic Clubs.

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.

Canterbury Club, an organization of Episcopalians or other students interested in the Episcopal Church, holds weekly meetings in the

College Union and celebrates a service of Holy Communion once each month.

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

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.

The Council of Religious Clubs, serving as a co-ordinating group for the six religious organizations on campus, sponsors a number of activities each year, including a Religious Emphasis Week.

Honorary Groups—Alpha Honor Society composed of students from the two upper classes who have been outstanding in extra-curricular work encourages well-directed activities, promotes high standards in existing organizations, and recognizes effective leadership.

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 experiences, and to recognize excellence in the crafts.

Kappa Delta Pi is the Gamma Mu chapter of the national society. Members must be at least 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 development of its members.

Sigma Upsilon, the Alpha Delta chapter of the national fraternity, is open to all men of the College who have shown noteworthy accomplishment in the field of English. Gamma Lambda Chi provides similar opportunity for women interested in creative writing.

Social Groups—Eight social-fraternal organizations on campus, three open to men, five open to women, select their members by invi-

tation. A student must have maintained an academic average of C or higher through a minimum of three semesters to be eligible for initiation. These organizations develop leadership, fellowship, and scholarship among their members. The fraternities are Delta Kappa Alpha, Psi Beta Phi, and Sigma Tau Rho. The sororities are Alpha Sigma Pi, Alpha Tau Sigma, Delta Sigma Upsilon, Pi Kappa Rho, Sigma Sigma.

The Art Kraft Klub is a social and an art activity club. Membership is open to all interested College students. The groups major project is supervision of all poster publicity displayed at the College.

The Veterans' Club is a social group whose membership is open to all students who have been honorably discharged from any military service.

The Boosters of College Morale is a social club open to any male student, graduate, or faculty member 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, is published during the regular and summer sessions. It features current news of campus events and expresses student opinions on many issues, local, national, and international.

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

The Elm Leaves, an annual literary magazine, published in May, contains selected creative writings of the students.

The Handbook, containing brief general information about the College and its programs, is published in September when it is most helpful to new students.

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 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, and 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 N.C.A.A. National Championships as a member school.

Women's athletic activities include intramural competition in archery, basketball, badminton, bowling, fencing, softball, swimming, and volleyball. An opportunity is also given for participation in field hockey, horseback-riding, golf, life-saving, modern dancing, square dancing, synchronized swimming, table tennis, and tennis.

Intramural athletic activities for men 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 additional cost.

Recreational Activities—The College provides an ongoing recreational program throughout the year centered in the Student Union. These activities are for the most part provided for by student activity taxes without additional cost to students. 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.

Sunday Afternoon Music Hours—listening hours featuring serious music, light classics, jam sessions.

Film Showings—favorite films presented on Sunday evenings in the Union.

Fireside Sings—group singing around the fireplace in the Alumni Lounge.

Dances—weekly events, both formal and informal, sponsored by various student organizations.

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

Special Events—Smorgasbords, picnics, barbeques.

Student Financial Aid

Part-Time Employment

The Student Part-Time Employment Service enables students to meet some of their expenses through part-time work either on campus or in the community. Only those students who seriously need the income are expected to take on this additional work. Twenty-one hours of employment is the maximum that will be approved.

Some nearby homes permit students to work 21 hours per week in return for room and board, including lunches, plus three dollars per week. Inquiries should be directed to the Associate Dean of Students in charge of Financial Aids.

Scholarships

Art Education Club Scholarships—Each year since 1948 several outstanding Art Students in financial need are provided with scholarships by the Art Education Club. The recipients are judged on the quality of Art Work submitted to the Art Education Division. Consult the Faculty Adviser to the Art Education Club for further information.

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 Associate Dean of Students in charge of Financial Aids.

College Scholarship Awards—In 1957 the Board of Directors of the Faculty-Student Association established a scholarship fund for the undergraduate students of this College. Awards will be made through the Office of the Dean of Students at a time when sufficient interest has accrued from the principal.

John R. Crespi Scholarship—This scholarship, named in honor of his father, was presented to the College in 1954 by David E. Crespi, Class of January 1951. It will be awarded to a sophomore student in financial need who has achieved a scholastic rating of B or higher. Se-

lection is made by the Awards Committee of the Art Education Division to the President of the College.

Foreign Student Scholarship—A Foreign Student Scholarship Fund was established in 1957 by gifts from Alpha Sigma Pi, Delta Sigma Upsilon, and Sigma Sigma Sororities. Awards are made by the Office of the Dean of Students in consultation with representatives from these sororities.

Raymond M. Fretz Scholarship—This scholarship was 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 were selected by the fraternity for their outstanding citizenship and scholarship.

Phi Upsilon Omicron Scholarship in Home Economics—This scholarship is given by the Mu Alumnae Chapter of Phi Upsilon Omicron to a senior student who is majoring in Home Economics Education. Applications will be received from Juniors in the Home Economics Education Division during the month of April. Application forms are available in the Office of the Director of Home Economics Education.

Grace A. Powell Home Bureau Scholarship—This scholarship is awarded annually to a Home Economics Education student by a committee composed of members of the Home Economics Education Division faculty and representatives of the New York State Federation of Home Bureaus. It consists of the income from an investment of \$5,000 given to the College by the New York State Federation of Home Bureaus in December 1953. Applications may be secured from the Director of the Home Economics Education Division.

Regents Scholarships for Children of Deceased or Disabled Veterans—100 awards are available which provide \$450 for each of four years at an approved college. Selection is based upon the Regents Scholarship Examination. For further information consult the Associate Dean of Students in charge of Financial Aids.

Regents War Service Scholarships for Veterans—1,200 scholarships are established for the benefit of veterans who have served between June 24, 1950 and July 1, 1955 and have been released under honorable conditions. Veterans must have been a legal resident of New York State when they entered the service and must be residents of New York when making application. Other state or federal scholarships may not be used at the same time that benefits are being received

from this scholarship. For further information consult the Associate Dean of Students in charge of Financial Aids.

The Buffalo Council of Parents and Teachers Scholarships—Several scholarships of one hundred dollars each are awarded to students in the Elementary Education Curriculum annually by the Buffalo Council of Parents and Teachers. Candidates must be graduates of Buffalo Public High Schools and residents of Buffalo. Students are recommended by the Student Financial Aids Committee to the Director of the Elementary Education Division. Applications may be secured in the second semester from the Associate Dean of Students in charge of Financial Aids.

Wheelock Scholarship—Since 1931 a cash award is granted annually by the Association of Secondary School Principals to a male student in the Junior Class who shows promise of becoming an outstanding school teacher. The candidate is recommended by the Student Financial Aids Committee to the Director of the Elementary Education Division. Applications may be secured in the second semester from the Associate Dean of Students in charge of Financial Aids.

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 Associate Dean of Students in charge of Financial Aids or a representative of the Veterans Administration.

Awards

Bishop Honor Award—This award is 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—This award was 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—This Gold Medal Award was established in 1935 by Delta Kappa Fraternity. It 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—This award was established in 1953 by the Women's Athletic Association in honor of the former chairman of the Department of Health and Physical Education. It is granted to the senior woman student who is judged to be outstanding in leadership, scholarship and participation in women's health and physical education activities. The recipient is selected by the Health and Physical Education Department from nominations submitted by the Women's Athletic Association.

Hispania Medal—This medal was 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. The award is given by Sigma Tau Rho fraternity to the senior member of that fraternity who has the highest cumulative average.

Arnie Schorno Award—This award is given in memory of Arnie Schorno who was a member of Sigma Tau Rho Fraternity. The award is made to the senior member of this fraternity who has contributed the most to the College and to Sigma Tau Rho Fraternity.

Sigma Upsilon English Award—This award was established in 1932 by Alpha Delta Chapter of Sigma Upsilon, national honorary literary fraternity. It is given to a graduating senior man who has been judged to be the outstanding student in English. The recipient is selected by the Department of English.

Walter B. Weber Honor Award—This award was 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 Athletic 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.

Loan Funds

Alumni Association Loan Fund—This fund, established in 1912 by the College Alumni Association, permits junior and senior students to obtain loans of various amounts depending upon need. These loans are made on the recommendation of a sub-committee of the Executive Committee of the Association. Additional information can be secured from the Associate Dean of Students in charge of Financial Aids.

Alcoa Foundation Loan Fund—The College has established this loan fund from the gifts received from the Alcoa Foundation of Pittsburgh, Pennsylvania. Loans up to one hundred dollars are made to all students in good standing. Applications for loans over fifty dollars must be accompanied by the signature of a co-signer. Applications may be secured from the Associate Dean of Students in charge of Financial Aids.

Faculty Wives Club Emergency Loan Fund—This loan fund was established in 1951 by the Faculty Wives Club to provide short-term loans up to thirty-five dollars. Applications are made through the Associate Dean of Students in charge of Financial Aids.

Faculty Wives Club Loan Fund—This fund was established in 1957 by the Faculty Wives Club to assist students in financial need. It provides interest free loans up to one hundred and fifty dollars for a period not to exceed eighteen months. Applications are made through the Associate Dean of Students in charge of Financial Aids.

Alice Osgood Hamilton Loan Fund—Established in 1956 to grant loans to any student who has been in residence for one semester and

who has a cumulative grade point average of 2.00 or better. Loans up to one hundred and fifty dollars may be granted for a period of eighteen months. Applications are made through the Associate Dean of Students in charge of Financial Aids.

Hube Coyer Loan Fund—Established in 1956 to grant loans to any student who has been in residence for one semester and who has a cumulative grade point average of 2.00 or better. Loans may be granted for a period of eighteen months. Applications are made through the Associate Dean of Students in charge of Financial Aids.

Elizabeth C. Lange Student Loan Fund—This loan fund was established in 1925 by graduates of the Home Economics Education Division as a memorial to the first Director of Home Economics Education. Home Economics Education students other than freshmen may borrow up to two hundred dollars without interest for a maximum period of two years upon the recommendation of a faculty committee. Applications are made through the Home Economics Education Division.

Memorial Student Aid Loan Fund—In 1953 the Office of the Dean of Students established this fund from memorial gifts for students who are in emergency financial need. All loans are made on a short-term basis through the Associate Dean of Students in charge of Financial Aids.

The Catherine E. Reed Loan Fund—Established in 1955 to honor the former Associate Dean of Students, Miss Catherine E. Reed, at her retirement. This loan fund is available to all students of good academic standing who have made a contribution to the civic life of the College community. Applications are made through the Associate Dean of Students in charge of Financial Aids.

The Residence Center Council Loan Fund—Established in 1955 to grant loans to women students who are living away from home. Loans up to fifty dollars may be made from this fund. Applications are made through the Associate Dean of Students in charge of Financial Aids.

The Harry J. Steel Loan Fund—Established in 1955 to honor the former Director of Education. This loan fund is available to students who are or will be practice teaching within the next semester. Additional information may be secured from the Associate Dean of Students in charge of Financial Aids.

Military Affairs

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, United States Marine Corps Reserve. There is no military training during the academic year. Those who are enrolled in this program will be deferred from the draft.

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. 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.

Educational Services

Accelerated Elementary Education Program

The College recognizes the serious need for elementary school teachers. An Accelerated Program of study enables capable students to complete the regular four-year program in three calendar years. This is accomplished by attending three ten-month academic years and three eight-weeks 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. No tuition for Summer Session is required for those who are admitted to the Accelerated Program.

Intensive Teacher Training Program

Graduates of liberal arts colleges, through the Intensive Teacher Training Program, can be certified to teach in the elementary schools by completing one Summer Session in the program which earns for them a one-year renewable certificate. This certificate may be extended by attendance in Summer Session the following summer. Subsequent extension of certification may be secured through registration in either extension or Summer Session courses. The permanent form of elementary school certificate is earned by completing, within a five year period, thirty semester hours of credit (applicable to the Master's degree) and by demonstrating satisfactory teaching ability in a full time public school position for at least two years.

Extension Program

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

Courses in off-campus centers are offered during afternoons or evenings of the school week, if a sufficient demand arises and College

faculty members are available. Requests should be made in the spring, for fall and winter off-campus classes so they can be placed on the program and printed in the Extension Bulletin. Interested applicants should write to Director of Extension for information and the Extension Bulletin.

Summer Session

The Summer Session for 1958 will be held during the six weeks from June 30 through August 8. In 1957, almost 1400 students continued their professional training 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 a 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.

The Graduate Program, leading to a Master's degree offers work in all the areas described in the pages of this bulletin under the caption Graduate Division. The Intensive Teacher Training Program (for graduates of liberal arts colleges) will be continued. Each summer about sixty liberal arts graduates begin this program. Details may be secured from the Director of the Graduate Division.

The Undergraduate Program is planned for teachers working toward the Bachelor's degree or desiring special courses. Regular session undergraduate students may take courses to accelerate their progress or to fill special needs. Summer Session courses are offered according to the demands in all the undergraduate curricula.

Tuition for all students (graduate, undergraduate and out-of-state) is \$15.00 a credit hour. A College Tax of \$1.75 a credit hour (maximum \$10.00) and an Activity Tax of \$2.00 are collected.

A Summer Session Catalog can be obtained from the Director of Summer Session.

College Placement Service

The Placement Office maintains a complete folder of personal data and recommendations for every student who registers for placement. These folders are kept on file at the College, thus providing a continual source of data for use by teacher-graduates seeking new teaching, administrative or supervisory positions. While the chief

function of the Placement Office is to serve as an intermediary agent between candidates and employing officials, the office cannot guarantee to secure positions.

Procedures to follow in registering for placement services, as well as the conditions necessary for the future use of these services, are explained at the annual placement meeting. These meetings are held in May for all juniors expecting to graduate in June, August or January of the following year.

Alumni Relations Program

The Alumni Association, a coordinating agency for all Alumni affairs, maintains a record file of all graduates. It regularly supports a Scholarship Fund and publishes bulletins periodically to keep the alumni informed of Association activities and campus developments.

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 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.

Child Study Center

The Child Study Center provides specialized facilities for supplementing and integrating knowledge related to human development and behavior. Students are given opportunities to observe children, individually or in small groups, engaged in activities that illustrate one or more aspects or principles of child growth and development. Such experiences acquaint students with child study techniques needed by teachers for effective work in the classroom. A large file of tests and other evaluation instruments are available for examination to college students, faculty and community teachers.

The major objectives of the Child Study Center are to develop a better understanding of children, a knowledge of the kinds of infor-

mation needed about a child in order to form hypotheses about his behavior and adjustment problems in a given situation, skill in getting necessary information about individual children and insights into relationships between this information and relevant principles of child development, ability to recognize behavior that is sufficiently deviant to require referral, and a strong code of professional ethics that will govern all dealings with children and parents.

The facilities of the Child Study Center 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 or responses; and offices used for counseling, conferences and administration purposes.

Library Facilities

A collection of more than 67,000 volumes and more than 500 current periodicals is accessible from open shelves in the Edward H. Butler Library. The Reference Reading Room, the Reserve Book Room, and the Recreational Reading 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 out-of-print materials and doctoral dissertations, are available for reading with the necessary specialized equipment. 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 General Education course 105-106. 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 on the second floor of the Library provides a variety of materials of value to student teachers including story books, textbooks, slides, records, filmstrips, pictures, maps, and posters.

The Campus School Library contains more than 7,000 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.

Audio-Visual Facilities

Motion picture projectors and other equipment, available in sixteen areas of the College, provide for the audio-visual needs of the instructional program. Films, slides, tapes and specialized equipment are distributed from the Audio-Visual Office which coordinates the program, maintains the film library (200 titles), and provides necessary advisory services. A Radio Studio and a Photographic Laboratory provide technical facilities and equipment for instructional and production requirements. Supplemental audio-visual materials are secured from museums, art galleries, industrial organizations and film libraries of other universities. Feature films of exceptional history, historical and educational values are shown on selected Friday evenings throughout the year.

Academic Regulations

Grading System

The following grades are used by the faculty of the College to indicate the quality of work performed by students:

- A—Superior work
- B—Work above average
- C—Average work
- D—Work below average, but passing
- E—Failure
- S—Satisfactory
- U—Unsatisfactory
- W—Official withdrawal
- WP—Official withdrawal with passing work
- WE—Official withdrawal with failing work
- WX—Unofficial withdrawal, abandonment of a course or the entire program
- NC—No credit
- Inc.—Work incomplete because of reasons deemed justifiable by the instructor or failure to take a final examination because of unavoidable circumstances.

Quality Point System

The following quality point system is used in determining averages:

- For each hour of A: 4 quality points
- For each hour of B: 3 quality points
- For each hour of C: 2 quality points
- For each hour of D: 1 quality point
- For each hour of E: 0 quality points
- No other grades have quality point value

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 will have no quality point value.

Unit of Credit

The semester hour is the unit of credit in courses. It represents the satisfactory completion of a class period per week, with all required 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 or more hours of preparation for each class hour is the accepted college standard for student study.

Semester Hour Load of a Student

The normal semester hour load of a student is fifteen to seventeen semester hours. A student may register for eighteen semester hours without special permission if:

1. One of the eighteen hours is for participation in a music organization.
2. A regular load of eighteen hours is indicated by the catalog or by the Director of the Division.
3. One's cumulative average is 2.25 or more.

In all other circumstances, a student must have the written permission of his Division Director to register for more than seventeen semester hours, or for less than twelve. This permit must be filed with the Registrar to entitle the student to the extra credit.

The Dean's List

The Dean's List is an honor roll of all students whose scholastic records place them in the upper ten per cent of the student body. The list, issued at the end of each semester, is based on the quality point average earned during the two previous semesters (a minimum of thirty semester credit hours). A student's status on this list will not be affected by his student teaching grade.

Requirement 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 quality point average of 2.00 or higher). A grade of S in Student Teaching must be earned before a student will be recommended for graduation.

A total of 130 semester hours credit is required for graduation. 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 degrees in January or June are required to make application in the Registrar's Office by November 1 of the same academic year. Those completing the requirements for a degree during Summer Session must apply by August 1. Diplomas will be ordered only for students who follow these procedures.

Academic Probation

Students will be placed on probation status in accordance to the following classifications and regulations:

1. Probation

- a. Any student who fails to earn an average of C (2.00) in any semester thereby goes on Probation.
- b. Any student who earns less than 12 semester hours of credit in any semester goes on Probation unless there are special extenuating circumstances.

2. Final Probation

- a. Any sophomore, junior or senior who fails, during the semester he is on Probation, to earn an average of C (2.00) or fails to earn at least 12 semester hours of credit, or has a cumulative record of less than C (2.00), thereby goes on Final Probation.
- b. Any student who makes an average of C (2.00) and earns at least 12 semester hours of credit during the semester he is on Final Probation but fails to attain a cumulative average of C (2.00) shall be continued on Final Probation an additional semester.
- c. Any student on Final Probation shall be ineligible to appear in any public performance or activity of the college.

3. Disqualification for Registration

- a. Any freshman on Probation who fails to make an average of C (2.00) for at least 12 semester hours of credit during the second semester of his freshman year shall be disqualified from registering the following college semester or summer session. He may make an appeal in writing to the Probation Appeals Committee. Upon review of his case the Probation Appeals Committee may
 - (1) Deny him permission to register
 - (2) Grant him permission to register and place him on Final Probation
- b. Any student who fails to earn an average of C (2.00) and earn at least 12 semester hours of credit during the second semester he is on Final Probation disqualifies himself for registration the following college semester or summer session. He may make an appeal in writing to the Probation Appeals Committee. If permission to register is granted by this Committee he will be continued one more semester on Final Probation. Failure to earn a cumulative record of C (2.00) or to pass all courses during the second semester he is on Final Probation will result in disqualification from registration without the right of further appeal.
- c. Any student who makes an average of less than D (.99) in any semester disqualifies himself from registration. Such student may make an appeal in writing to the Probation Appeals Committee. If the Probation Appeals Committee permits him to register he goes on Final Probation.

4. Removal from Probation

Any student who makes an average of C (2.00) and attains a cumulative average of C (2.00) while on Probation or Final Probation shall be removed from all Probation.

Probation Appeals Committee

1. The Probation Appeals Committee shall consist of three members of the faculty who are engaged in full-time teaching. This Committee shall be empowered to review cases of students making appeals and to call for consultation the student concerned and any member

of the instructional or administrative personnel to enable it to reach a fair and just decision.

2. The decisions and recommendations of the Committee shall be enforced by the administrative officers of the College.

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 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 inter-collegiate 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 his behavior and attitude.

Dismissal

A student may be dismissed from the College for any one or more of the following reasons:

1. Failing a required subject for the third time
2. Failing one-half or more of a semester's work
3. Failure to meet the requirements of 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.

Special Requests

Requests for special privileges relating to academic matters such as extra hours of credit, deviations from the prescribed curriculum, credit transfer from other institutions, special examinations, Extension and Summer Session work, and changes in program are to be made to the Director of the division or the Dean of the College.

Removal of an "Incomplete"

A grade of "incomplete" must be made up within the semester in which the student is enrolled, subsequent to the semester in which the grade was received. An "incomplete" not made up during this semester will automatically be recorded as an E thus necessitating a repetition of the course.

It is the student's responsibility to contact his instructor within the first two weeks of a semester and make satisfactory arrangements for the completion of the work necessary for the removal of the "incomplete".

No special examinations will be scheduled by the Dean's office. Those who failed to take a regular examination and received an "incomplete" must arrange with their instructors for the completion of such examinations before the end of the semester as indicated in the first paragraph above.

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 is expected to 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" should 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.

Withdrawals and Honorable Dismissals

Students finding it necessary to withdraw from College should do so officially to maintain good standing and eligibility for honorable dismissal. Withdrawal should proceed as follows:

- a. Consult the Director of the division and obtain a Recommendation for Withdrawal.
- b. Present to the Dean of the College the Recommendation for Withdrawal and obtain an Official Withdrawal Permit.
- c. File the Permit with the Registrar for official cancellation of courses.
- d. Complete Withdrawal Procedure as indicated by the Registrar.

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

All students who officially withdraw from College in good standing are entitled to honorable dismissal.

Grades granted upon official withdrawal before the end of a term will be as follows:

1. W—Before mid-term.
2. WP—After mid-term, if passing work is reported.
3. WE—After mid-term, if failing work is reported.

Transcripts of Record

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, but a charge of \$1.00 is made for each additional transcript. No charge is made to men and women in the armed services.

Students should make application for transcripts several weeks in advance of the date needed.

Registration

All students are required to register on the dates announced by the Registrar. Registration after these dates must have the approval of the Director of the Division. It is advisable that approval for late registration be secured in advance. A late registration fee (\$1.00 per day, maximum \$3.00) is assessed for this privilege. Registration delayed more than one week requires special permission from the Dean

of the College and may result in a reduction of schedule load for the semester.

All students must present three official records on the day of registration, namely, his latest photostatic copy of record, his permit to register, and his Statement of Course Needs.

A student is not officially enrolled until he has completed all of the requirements of registration.

Repeated Courses (Effective September 1, 1958)

When any student repeats any required course in which he has received a mark of "E", or repeats any other course, required or elective, 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.

Cancellation of a Course

If a student finds it necessary to drop a course he should observe the following procedures to make the cancellation official:

- a. Secure a written recommendation from the Director of the division
- b. Present this to the Dean of the College for an official Cancellation Permit
- c. File this with the Registrar

Courses officially cancelled will be recorded as follows:

1. W—Before mid-term.
2. WP—After mid-term, if passing work is reported.
3. WE—After mid-term, if failing work is reported.

Courses abandoned, left without official cancellation, will be given a grade of WX; thus, making one's continuance in College or re-admission highly questionable.

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.

Art Education Division

Stanley A. Czurles, Director

Professors *Bauer, Browne, Hubler, Lofgren, Thomas, Truesdale, Winebrenner*; Associate Professors *Ahrens**, *Bolinsky, Dakin, Green, Grossman, Heyman, Karcher, Lindemann, Squeri, Tetkowski*; Assistant Professors *Case, Cataldo, Erickson, Haberer, Hoffa, Jiskra, O'Connell, Reinholz, Rosso, Stark, Wise*.

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 positions as teachers, supervisors, or consultants. A graduate curriculum leads to the degree of Master of Science.

No particular pattern of high school art courses is required for admission, but candidates are expected to have special interest and ability in art revealed in superior grades in high school art courses, or displayed by participation in other creative activities. General requirements for admission are explained in the catalog section on Admissions.

The student becoming a teacher-artist-citizen by progressing through the art curriculum, develops expressive and creative powers, an ability to teach and a knowledge of the use of art in the community. Aided by faculty advisement, he grows in ability to evaluate his professional progress and to plan the program of specialization for his senior year based upon his interests and abilities. Part of his college work takes him 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. He is encouraged to attend educational conferences where he meets outstanding members of his profession and authorities on Art education.

The College provides extensive facilities for the Art Education program including fourteen studios for a wide variety of art activities including painting, photography, lithography, etching, sculpture, industrial design, theatre design, crafts, home planning and jewelry.

* On leave.

The nearby Albright Art Gallery with its permanent collection and exhibits from other cities and countries affords first-hand opportunities to study original works of art: its educational services and lecture series enable students to meet persons distinguished in art.

No special fees are charged to art students; they pay the same fees and charges required of other students, which are approximately \$108.00 per year. The cost of art supplies and books is about \$140.00 a year.

No scholarships are available exclusively to entering Art Education students but the Art Education Club Scholarships, and the Art Kraft Klub Scholarships are available after the freshman year.

Advanced Standing and Certification

Applicants for admission to advanced standing (including college graduates and others interested in certification only) will be informed of the course requirements for the degree or certification after their transcripts and examples of art work are evaluated.

ART EDUCATION CURRICULUM

Students entering as Freshmen prior to July 1, 1957 should refer to the 1956-57 or 1957-58 General Catalog for the course listings by years of the curriculum.

Students entering July 1, 1957, and thereafter, will follow the year by year course sequences listed below.

FIRST YEAR

<i>Course Titles</i>	<i>First Semester</i>		<i>Second Semester</i>	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 175-176 Fundamentals of Drawing.....	4	2	4	2
Art 177-178 Art Education	3	2	3	2
Art 179-180 Fundamentals of Design.....	4	2	4	2
Art 181 Fundamentals of Photography.....	4	2	..	..
Art 182 Lettering and Design.....	..	..	4	2
G.E. 104 Ways of Knowing.....	..	..	2	2
G.E. 105-106 Effective Communication	3	3	3	3
G.E. 205 Arts in Living.....	5	4	..	..
P.Ed. 101-102 Physical Education.....	2	1	2	1
I.A. 105 Mechanical Drawing.....	..	..	4	2
Advisement	1	0	1	0
Or. 10 Orientation	1	0	..	..
Total hours	27	16	27	16

SECOND YEAR

<i>Course Titles</i>	<i>First Semester</i>		<i>Second Semester</i>	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 275 Art and the Child.....	3	2	..	..
Art 276 Art and the Adolescent.....	..	..	3	2
Art 277 Design with Wood.....	4	2	..	..
Art 278 Painting .....	..	..	4	2
Art 279 Design with Clay.....	4	2	..	..
Art 283 Design with Metal.....	..	..	4	2
Art 284 Art History .....	..	..	2	2
G.E. 101-102 Man and His Institutions.....	3	3	3	3
G.E. 103 Mathematics and Modern Life.....	2	2	..	..
G.E. 203-204 Man and His Natural Environ- ment	4	3	4	3
Ed. 151-152 Human Growth and Development	4	3	4	3
Total hours	24	17	24	17

THIRD YEAR

<i>Course Titles</i>	<i>First Semester</i>		<i>Second Semester</i>	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 351 Pre-Teaching Workshop	4	2	..	..
Art 359 Sculpture .....	..	..	4	2
Art 361 Graphic Arts	6	3	..	..
Art 363 Product Design .....	..	..	4	2
Art 377 Community and Home Planning.....	6	3	..	..
Art 378 Painting .....	..	..	4	2
Art 379 Design with Fibers.....	4	2	..	..
Art 384 Art History .....	..	..	2	2
Art 458 Theatre Design	4	2	..	..
G.E. 201 Family Living	2	2	..	..
G.E. 301 Ideas of Man and His World in Lit- erature .....	..	..	3	3
G.E. 401 Ideas and Social Change in Western Civilization	3	3	..	..
Art Elective .....	..	..	4	2
Non-Art Elective .....	..	..	3	3
Total hours	29	17	24	16
Art 375 Student Teaching and Seminar.....	..	..	30	15

FOURTH YEAR

<i>Course Titles</i>	<i>First Semester</i>		<i>Second Semester</i>	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 359 Sculpture	4	2	..	..
Art 363 Product Design	4	2	..	..
Art 378 Painting	4	2	..	..
Art 384 Art History	2	2	..	..
Art 452 Post-Teaching Seminar .....	..	..	3	2
G.E. 301-302 Ideas of Man and His World in Literature	3	3	2	2
Art Electives	4	2	12	6
Non-Art Electives	3	3	6	6
Total hours	24	16	23	16
Art 375 Student Teaching and Seminar.....	30	15	..	..

Arts and Sciences Division

Katheryne Thomas Whittemore, Director

Faculty members are listed under each department.

The Division of Arts and Sciences is comprised of the departments of English, Foreign Languages, Geography, Health and Physical Education, Mathematics, Music, Science, and Social Studies. The courses offered by each of these departments are listed and described under individual department headings.

The Division of Arts and Sciences provides many courses that are required in the curricula of the divisions of Art Education, Elementary Education, Exceptional Children Education, Home Economics Education, and Industrial Arts Education. These requirements are indicated in the curriculum outlined for each division. In addition, the Division of Arts and Sciences offers a wide variety of elective courses that may be selected by students of all the divisions. Prerequisites for these courses are included in the courses descriptions.

Students interested in science may select a sequence of courses designed to give special preparation in the teaching of science in the elementary grades. This sequence is described under the Science Department.

The departments of English, Mathematics, Science, and Social Studies provide programs of undergraduate and graduate study which permit students to extend their elementary teaching certificates to include these subjects in the early secondary school. These programs are described under the departments in which they are offered.

Elementary Education Division

Robert W. MacVittie, Director

The curriculum of this division 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 in their programs. They acquire excellent personal preparation, professional perspective, technical knowledge and specialized skills, and are certified to teach from kindergarten through sixth grade.

Students in the Elementary Education Division receive a comprehensive program of supervised teaching experiences with children of various ages in different types of schools: the first year, a general study of children to better understand child growth and development; the second year, an expanded study of sociological backgrounds of pupils and teaching reading to small groups; the third year, participation in a variety of teaching situations under close supervision; the fourth year, student teaching responsibility with two or more classes, under supervision of a master teacher.

Student teaching experiences are provided, partly in the Campus Elementary School under a modern philosophy of education, and partly in cooperating schools in nearby cities, suburban areas and rural communities. Students are required to reside in these communities during student teaching assignment.

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 to qualify for graduation.

Students in this division pay only the regular college fees and charges, approximately \$108.00 per year; books, supplies and equipment needs are estimated at seventy dollars per year.

Information concerning scholarships and financial aid is provided under Student Financial Aids in this catalog.

Science Sequence

Students in this division may elect a course sequence preparing them to become consultants or special teachers of elementary school science. (See Science Department.)

Fifth-Year Program for Early Secondary School Grades

The elementary teaching certificate may be extended to include the teaching of English, mathematics, science or social studies through the ninth grade of the junior high school. Graduates may accept positions teaching in the seventh, eighth or ninth grades providing they register in Summer Session for the Fifth-Year Program for the Early Secondary School Grades, qualifying them for a temporary extension of the elementary certificate including teaching in the junior high school, (renewed year to year by study in Extension or Summer Session). This certificate will be made permanent when the requirements of the Fifth Year Program of Study are completed (sixteen semester hours completed within two years, thirty semester hours within five years from the date of graduation). (See English, Mathematics, Science and Social Studies Departments.)

Early Childhood Education Certification

Elementary Education students may earn special certification in Early Childhood Education (teaching young children in the nursery school, kindergarten and primary grades). They follow the regular Elementary Education curriculum, but courses El.Ed. 202C, 301C, and 401C, are modified to apply specifically to teaching in nursery classes through grade three. El.Ed. 308C, Seminar in Early Childhood Education, is required of all students; three of the following courses are to be elected: English 210 Children's Literature, Art 406 Creative Arts Workshop, Music 304 Music for Children, Science 310 Science in the Elementary Grades.

ELEMENTARY EDUCATION CURRICULUM

Students entering as Freshmen prior to July 1, 1957 should refer to the 1956-57 or 1957-58 General Catalog for the course listings by years of the curriculum.

Students entering July 1, 1957 and thereafter will follow the year by year course sequences as listed below.

FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
G.E. 101-102 Man and His Institutions: Social, Economic and Political.....	3	3	3	3
G.E. 105-106 Effective Communication	3	3	3	3
G.E. 103 Mathematics and Modern Life....	..	..	2	2
G.E. 104 Ways of Knowing.....	2	2	..	..
Mus. 101-102 Essentials of Music.....	3	2	3	2
Ed. 151-152 Human Growth and Development	4	3	4	3
Sci. 160-161 General Biology	4	3	3	2
P.Ed. 101-102 Physical Activities	2	1	2	1
Or. 10 Orientation	1	0	..	..
†Foreign Language	(3)	(3)	(3)	(3)
Total hours	22	17	20	16

SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 200 Essentials of Art.....	3	2	..	..
El.Ed. 201-202 The Child and the Curriculum I	4	3	4	3
Eng. 250 Types of British and American Literature I	3	3	..	..
G.E. 201 Family Living .....	..	..	2	2
G.E. 203-204 Man and His Natural Environment	4	3	4	3
Math. 210 Elements of Mathematics.....	..	..	3	3
S.S. — Selected from Elective Group A or B	3	3	3	3
Electives	3	3	3	3
Total hours	20	17	19	17

† Foreign Language is an elective. Those who elect to take a foreign language, postpone G.E. 103 and G.E. 104 until Sophomore year. G.E. 104 to be taken in place of elective first semester of sophomore year.

THIRD YEAR*
(Junior Teaching Sections)

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 300 Essentials of Art.....	3	2	..	..
El. Ed. 301 The Child and the Curriculum II	9	6	..	..
G.E. 301 Ideas of Man and His World of Literature	3	2	..	..
Geog. 301 General Geography I.....	3	3	..	..
P.Ed. 301 Physical Education	2	2	..	..
Elective	2	2	..	..
El.Ed. 401 Practicum in Teaching.....	..	..	30	15
Total hours	22	17	30	15

(Junior Non-Teaching Sections)

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 300 Essentials of Art.....	3	2	..	..
Eng. 451 Types of British and American Literature II	3	3	..	..
El.Ed. 301 The Child and the Curriculum II	..	..	9	6
G.E. 301-302 Ideas of Man and His World of Literature	3	2	3	3
Geog. 301 General Geography I.....	..	..	3	3
H.Ed. 204 Personal and Community Health..	2	2	..	..
P.Ed. 301 Physical Education .....	..	..	2	2
Electives	6	6	2	2
Total hours	17	15	19	16

Those students assigned to the Junior Non-Teaching Sections will be assigned to the Senior Teaching Sections in their Senior Year.

* Those students assigned to the Junior Teaching Sections will be assigned to the Senior Non-Teaching Section in their Senior Year.

FOURTH YEAR
(Senior Non-Teaching Sections)

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
El.Ed. 402 Seminar in Elementary School Teaching	4	3	..	..
G.E. 302 Ideas of Man and His World of Lit.	3	3	..	..
G.E. 401 Ideas and Social Change in Western Civilization	3	3	..	..
Geog. 402 General Geography II.....	..	..	3	3
Eng. 451 Types of British and American Literature II .....	..	..	3	3
H.Ed. 204 Personal and Community Health..	2	2	..	..
I.A. 303 Industrial Arts in the Elementary School .....	..	..	4	2
Electives	3	3	9	9
Total hours	15	14	19	17

(Senior Teaching Sections)

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
El.Ed. 401 Practicum in Teaching.....	30	15	..	..
El.Ed. 402 Seminar in Elementary School Teaching .....	..	..	4	3
G.E. 401 Ideas and Social Change in Western Civilization .....	..	..	3	3
Geog. 402 General Geography II.....	..	..	3	3
I.A. 303 Industrial Arts in the Elementary School .....	..	..	4	2
Electives .....	..	..	6	6
Total hours	30	15	20	17

ELEMENTARY EDUCATION CURRICULUM

ACCELERATED PROGRAM

Students who entered the Accelerated Program as Freshmen in July of 1957, and thereafter, will follow the course sequences as listed below.

FIRST SUMMER SESSION

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 105 Effective Communication	3
G.E. 101 Man and His Institutions: Social, Economic, and Political..	3
G.E. 104 Ways of Knowing.....	2
Or. 10 Orientation	0
Total hours	8

FIRST FALL SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 102 Man and His Institutions: Social, Economic, and Political..	3
G.E. 106 Effective Communication	3
G.E. 103 Mathematics and Modern Life.....	2
Mus. 101 Essentials of Music.....	2
Ed. 151 Human Growth and Development.....	3
Sci. 160 Biology.....	3
P.Ed. 101 Physical Activities	1
Total hours	17

FIRST SPRING SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 203 Man and His Natural Environment.....	3
Ed. 152 Human Growth and Development.....	3
Sci. 161 Biology.....	2
Mus. 102 Essentials of Music.....	2
P.Ed. 102 Physical Activities	1
El.Ed. 201 The Child and the Curriculum I.....	3
S.S. — (selected from elective Group A or B).....	3
Total hours	17

SECOND SUMMER SESSION

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 301 Ideas of Man and His World of Literature.....	3
Art 200 Essentials of Art.....	2
Math. 210 Elements of Mathematics.....	3
H.Ed. 204 Personal and Community Health.....	2
Total hours	10

SECOND FALL SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
El.Ed. 202 The Child and the Curriculum I.....	3
Geog. 301 General Geography I.....	3
Art 300 Essentials of Art.....	2
G.E. 204 Man and His Natural Environment.....	3
Elective	3
S.S. — (selected from elective Group A or B).....	3
Total hours	17

SECOND SPRING SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
Ed. 301 The Child and the Curriculum II.....	6
H.Ed. 301 Physical Education	2
Eng. 250 Types of British and American Literature I.....	3
Electives	6
Total hours	17

THIRD SUMMER SESSION

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 302 Ideas of Man and His World of Literature.....	2
G.E. 201 Family Living	2
G.E. 401 Ideas and Social Change in Western Civilization.....	3
Electives	5
Total hours	12

THIRD FALL SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
Ed. 401 Practicum in Elementary Teaching.....	15

THIRD SPRING SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
Eng. 451 Types of British and American Literature II.....	3
Ed. 402 Seminar in Elementary School Teaching.....	3
I.A. 303 Industrial Arts in the Elementary School.....	2
Geog. 402 General Geography II.....	3
Electives	6
Total hours	17

ELEMENTARY EDUCATION DIVISION

ACCELERATED PROGRAM

Students who enter the Accelerated Program as Sophomores in July 1958 and thereafter will follow the course sequences as listed below.

FIRST SUMMER SESSION

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 201 Family Living	2
G.E. 203 Man and His Natural Environment.....	3
Math. 210 Elements of Mathematics.....	3
Eng. 250 Types of British and American Literature I.....	3
Total hours	11

SECOND FALL SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
G.E. 204 Man and His Natural Environment.....	3
Ed. 201 The Child and the Curriculum I.....	3
Art 200 Essentials of Art.....	2
S.S. — (selected from elective Group A or B).....	3
G.E. 301 Ideas of Man and His World of Literature.....	2
Elective	3
Total hours	16

SECOND SPRING SEMESTER

<i>Course Titles</i>	<i>Credit Hours</i>
El.Ed. 202 The Child and the Curriculum I.....	3
Geog. 301 General Geography I.....	3
I.A. 303 Industrial Arts in the Elementary School.....	2
G.E. 302 Ideas of Man and His World of Literature.....	3
S.S. — (selected from elective Group A or B).....	3
Elective	3
Total hours	17

SECOND SUMMER SESSION

Course Titles	Credit Hours
H.Ed. 204 Personal and Community Health.....	2
Eng. 451 Types of British and American Literature II.....	3
Geog. 402 General Geography II.....	3
Elective	3
Total hours	11

THIRD FALL SEMESTER

Course Titles	Credit Hours
El.Ed. 301 The Child and the Curriculum II.....	6
Electives	6
Art 300 Essentials of Art.....	2
P.Ed. 301 Physical Education	2
Total hours	16

THIRD SPRING SEMESTER

Course Titles	Credit Hours
El.Ed. 401 Practicum in Teaching.....	15

THIRD SUMMER SESSION

Course Titles	Credit Hours
G.E. 401 Ideas and Social Change in Western Civilization.....	3
El.Ed. 402 Seminar in Elementary School Teaching.....	3
Electives	5
Total hours	11

Exceptional Children Education Division

Horace Mann, Director

Professor Bobroff; Associate Professors, Bloustein, Dickson, Gallagher.

The curriculum of 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. They are qualified for certificates permitting them to teach in both the elementary schools *and* to teach children who have impairments in speech, hearing, mentality or general physical structure.

Students majoring in this division may specialize in one of these three fields.

1. Education of Children with Retarded Mental Development
2. Education of Children with Orthopedic Handicap
3. Education of Children with Speech and Hearing Defect

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 the first semester of their sophomore year.

Information concerning scholarships and financial aids is provided under Scholarships in this catalog. There is in addition to these, yearly grants of assistance to students majoring in mental retardation from local parent organizations and the Division of the Handicapped of the State Education Department.

The division's professional program includes those 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, Crippled Children's Guild, Guidance Center of Buffalo, the Edith Hartwell Clinic in LeRoy and the Occupational Education School in Lackawanna.

Student teaching experiences are provided in both elementary and special classes under the direction of qualified supervising teachers and therapists. In some instances, where the student teaching placement is in nearby cities, the student is required to reside in the community during the student teaching assignment.

EXCEPTIONAL CHILDREN EDUCATION DIVISION CURRICULUM

Students entering as Freshmen prior to July 1, 1957 should refer to the 1956-57 or 1957-58 General Catalog for the course listings by years of the curriculum.

Students entering July 1, 1957, and thereafter, will follow the year by year course sequences as listed below.

CURRICULUM FOR MAJORS IN MENTAL RETARDATION

FIRST YEAR

Course No.	Title	First Semester		Second Semester	
		Class Hours	Sem. Hours	Class Hours	Sem. Hours
Ed. 151-152	Human Growth and Development	4	3	4	3
Ex.Ed. 241	Nature and Needs of Exceptional Children .....	..	..	3	3
G.E. 101-102	Man and His Institutions.....	3	3	3	3
G.E. 103	Mathematics and Modern Life	3	2	..	..
G.E. 104	Ways of Knowing.....	2	2	..	..
G.E. 105-106	Effective Communication	3	3	3	3
Mus. 103	Essentials of Music for Exceptional Education .....	..	..	4	3
Or. 10	Orientation	1	0	..	..
P.Ed. 101-102	Physical Activities	2	1	2	1
Sci. 160-161	Biology	4	3	3	2
	Total	22	17	22	18

SECOND YEAR

Art 113	Essentials of Art for Exceptional Education	4	3	..	..
Ed. 201-202	Child and Curriculum I.....	4	3	4	3
Eng. 250	Types of British and American Literature I	3	3	..	..
Ex.Ed. 409	Psychology of Exceptional Children	3	3	—	—
G.E. 201	Family Life .....	..	..	2	2
G.E. 203-204	Natural Environment	4	3	4	3
I.A. 305	Occupational Skills	—	—	4	3
Math. 210	Elements of Mathematics.....	..	..	3	3
S.S. —	(selected from Elective Group A or B)	3	3	3	3
	Total	21	18	20	17

THIRD YEAR

Course No.	Title	First Semester		Second Semester	
		Class Hours	Sem. Hours	Class Hours	Sem. Hours
Ed. 315	Child and Curriculum III....	..	..	(	3)
Ex.Ed. 370	Observation and Participation in Mental Retardation.....	..	..	(9	3)
Elective		3	3	..	..
Eng. 451	Types of British and American Literature II	3	3	..	..
Ex.Ed. 310	Mental Measurement	3	3	..	..
Ex.Ed. 362	Occupational Education	3	3	..	..
G.E. 302-301	Ideas and Literature.....	3	2	3	3
Geog. 301	General Geography I.....	..	..	3	3
H.Ed. 201	Personal Hygiene and Community	2	2	..	..
H.Ed. 301	Physical Education .....	..	..	2	2
	Total	17	16	17	14

FOURTH YEAR

Ed. 402	Seminar in Elementary School Teaching .....	..	..	3	3
Ed. 470	Practicum in Elementary Teaching	(30	8)	..	..
Ex.Ed. 401	Practicum in Mental Retardation .....	(	7)	..	..
Elective		..	..	3	3
Elective		..	..	3	3
Ex.Ed. 449	Seminar in Mental Retardation ..	..	..	3	3
G.E. 401	Ideas and Social Change.....	..	..	3	3
	Total	30	15	15	15

CURRICULUM FOR MAJORS IN PHYSICAL HANDICAP

FIRST YEAR

Course No.	Title	First Semester		Second Semester	
		Class Hours	Sem. Hours	Class Hours	Sem. Hours
Ed. 151-152	Human Growth and Development	4	3	4	3
Ex.Ed. 241	Nature and Needs of Exceptional Children .....	..	..	3	3
G.E. 101-102	Man and His Institutions.....	3	3	3	3
G.E. 103	Mathematics and Modern Life ..	3	2	..	..
G.E. 104	Ways of Knowing.....	2	2	..	..
G.E. 105-106	Effective Communications	3	3	3	3
Mus. 103	Essentials of Music for Exceptional Education .....	..	..	4	3
Or. 10	Orientation	1	0	..	..
P.Ed. 101-102	Physical Activities	2	1	2	1
Sci. 160-161	Biology	4	3	3	2
	Total	22	17	22	18

SECOND YEAR

Art 113	Essentials of Art for Exceptional Education	4	3	..	..
Ed. 201-202	Child and Curriculum I.....	4	3	4	3
Eng. 250	Types of British and American Literature I	3	3	..	..
Ex.Ed. 409	Psychology of Exceptional Children	3	3	..	..
G.E. 201	Family Life .....	..	..	2	2
G.E. 203-204	Natural Environment	4	3	4	3
I.A. 305	Occupational Skills .....	..	..	4	3
Math. 210	Elements of Mathematics.....	..	..	3	3
S.S. — (selected from Elective Group A or B)		3	3	3	3
	Total	21	18	20	17

THIRD YEAR

Course No.	Title	First Semester		Second Semester	
		Class Hours	Sem. Hours	Class Hours	Sem. Hours
Elective		..	..	3	3
Ed. 315	Child and Curriculum III....	..	..	(	3)
Ex.Ed. 371	Observation and Participation in Physical Handicap.....	..	..	(	3)
Eng. 451	Types of British and American Literature II	3	3	..	..
Ex.Ed. 310	Mental Measurement	3	3	..	..
Ex.Ed. 328	Special Class Methods.....	3	3	..	..
Ex.Ed. 362	Occupational Education	3	3	..	..
G.E. 302-301	Ideas of Man and His World in Literature	3	2	3	3
H.Ed. 201	Personal Hygiene	2	2	..	..
H.Ed. 301	Physical Ed. ....	..	..	2	2
Total		17	16	17	14

FOURTH YEAR

Elective		..	..	3	3
Elective		..	..	3	3
Ed. 402	Seminar in Elementary School Teaching .....	..	..	3	3
Ed. 470	Practicum in Elementary Teaching	(30	8)	..	..
Ex. Ed. 407	Practicum in Physical Handicap (	..	7)	..	..
G.E. 401	Ideas and Social Change in Western Civilization .....	..	..	3	3
Geog. 301	General Geography I.....	..	..	3	3
Total		30	15	15	15

CURRICULUM FOR MAJORS IN SPEECH AND HEARING

FIRST YEAR

Course No.	Title	First Semester		Second Semester	
		Class Hours	Sem. Hours	Class Hours	Sem. Hours
Ed. 151-152	Human Growth and Development	4	3	4	3
Ex.Ed. 241	Nature and Needs of Children Who Present Exceptional Problems of Learning.....	..	..	3	3
G.E. 101-102	Man and His Institutions: Social, Economic, and Political	3	3	3	3
G.E. 103	Mathematics and Modern Life	3	2	..	..
G.E. 104	Ways of Knowing.....	2	2	..	..
G.E. 105-106	Effective Communication	3	3	3	3
Mus. 103	Essentials of Music for Exceptional Children Education..	..	..	4	3
Or. 10	Orientation	1	0	..	..
P.Ed. 101-102	Physical Activities	2	1	2	1
Sci. 160-161	Biology	4	3	3	2
Total		22	17	22	18

SECOND YEAR

Art 113	Essentials in Art Education for Exceptional Children Education	4	3	..	..
Ed. 201-202	Child and Curriculum I.....	4	3	4	3
Eng. 250	Types of British and American Literature I	3	3	..	..
Ex.Ed. 204	Science of Speech and Hearing	3	3	..	..
Ex.Ed. 305	Phonetics	3	3	..	..
Ex.Ed. 306	Speech Pathology I.....	..	..	3	3
G.E. 201	Family Life .....	..	..	2	2
G.E. 203-204	Man and His Natural Environment	4	3	4	3
Math. 210	Elements of Mathematics....	3	3
S.S. — (selected from Elective Group A or B)		3	3
Total		21	18	19	17

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THIRD YEAR

Course No.	Title	First Semester		Second Semester	
		Class Hours	Sem. Hours	Class Hours	Sem. Hours
Ed. 315	Child and Curriculum III....	..	..	( 3)	
Ex.Ed. 372	Participation and Clinical Procedures .. ..	..	..	( 9)	(3)
Eng. 451	Types of British and American Literature II	3	3	..	..
Ex.Ed. 307	Speech Pathology II.....	3	3	..	..
Ex.Ed. 312	Introduction to Audiology... ..	3	3	..	..
G.E. 302-301	Ideas of Man and His World in Literature	3	2	3	3
Geog. 301	General Geography I.....	..	..	3	3
H.Ed. 201	Personal Hygiene and Community Health	2	2	..	..
H.Ed. 301	Physical Education .....	..	..	2	2
S.S. —	(selected from Group A or B).....	3	3	..	..
Total		17	16	17	14

FOURTH YEAR

Ed. 402	Seminar in Elementary School Teaching .....	..	..	3	3
Ed. 470	Practicum in Elementary Teaching	(30	8)	..	..
Ex.Ed. 405	Practicum in Speech-Hearing ..	..	7)	..	..
Elective		..	..	3	3
Elective		..	..	3	3
Ex.Ed. 451	Speech and Hearing Laboratory ..	..	..	3	3
G.E. 401	Ideas and Social Change in Western Civilization .....	..	..	3	3
Total		30	15	15	15

General Education Division

William D. Baker, Director

Faculty members from the other Divisions of the College teach in the General Education Division.

The basic philosophy of the General Education program: it should enrich the social, physical, emotional, mental, and moral lives of all the students. To achieve this enrichment, the following concepts are postulated: (1) the primacy of human values; (2) the dignity, worth and integrity of the individual; (3) the opportunity for the fullest development of the individual; (4) individual responsibility for action in behalf of the common good; (5) the consent of the people in all decisions governing general welfare.

The program therefore seeks to achieve for the student the following goals:

1. To understand himself.
2. To build a philosophy of life based on principles fundamental to a democracy and consistent with the moral, ethical, and spiritual values of our society.
3. To cultivate knowledge, attitudes, and behavior characteristics basic to family life.
4. To develop an understanding of the inter-dependence of men and the means of cooperative endeavor.
5. To assume his place as a citizen qualified and willing to participate in public affairs.
6. To understand his environment and to apply this understanding for the greatest good of society.
7. To acquire and use the skills and habits involved in critical and constructive thinking.
8. To acquire the skills and cultivate habits of effective communication.

9. To cultivate an appreciation of beauty and to utilize it in creative self-expression.
10. To develop to the fullest his interests in and understanding of a personally satisfying and socially useful vocation.

Courses developed along lines that lead not to knowledge as an end in itself but to patterns of behavior and that integrate areas of human knowledge will be offered to accomplish the goals of the general (as distinguished from the professional) education program.

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Graduate Division

Robert E. Albright, Director

Graduate Curricula

Graduate courses lead to the Master of Science degree with majors in Art Education, Early Secondary Education, Elementary Education, Elementary Principalship and Supervision, Exceptional Children Education, Home Economics Education, and Industrial Arts Education.

Graduate Work Limited to Summer Session and Extension Classes

At present no graduate work is offered during the Regular Session. Graduate schedules will be planned so that requirements for the Master of Science degree may be completed by attendance at five Summer Sessions. This time may be shortened by registration in Extension Classes.

Admission Requirements

Applicants meeting the following requirements are eligible for admission to the Graduate Division.

A. An acceptable academic and teaching record. An applicant must be able to present an undergraduate scholastic average of 2.3 or higher, an acceptable teaching record testified by a confidential statement from the administrator of the school wherein employed, and recommendations concerning academic and personal qualifications supplied by three persons in a position to make valid statements.

B. One of the following:

1. An approved Bachelor's Degree and eligibility to teach in the elementary school or in a field of specialization in New York State.

An *approved* Bachelor's Degree is one granted by a teachers college, liberal arts college, or university which is

accredited by the American Association of Colleges for Teacher Education, an appropriate regional accrediting agency, a State Board of Education, or a State University.

2. An approved Bachelor's Degree and a desire to become certified to teach in New York State under the requirements of the Bureau of Teacher Education and Certification.
3. An approved Bachelor's Degree and a teaching certificate from another state. Completion of the Master's Degree requirements does not guarantee New York State certification. Applicants interested in New York State certification should secure an evaluation of credit and a statement of prescribed work necessary from the Bureau of Teacher Education and Certification, State Education Department, Albany 1, New York.

Admission Procedures

A. Complete admission blank available from Director of Graduate Division with data required.

B. Return blank before May 1, for registration in Summer Session, before September 1st for registration in first semester, and before January 1st for registration in second semester Extension program.

C. Provide official transcript from college which granted degree, (not necessary for graduates of this college).

Admission to Candidacy

Filing an application for admission to candidacy is the personal responsibility of each student after he has completed a minimum of six hours. At the completion of twelve semester hours of graduate work he *must* apply for candidacy or file with the Director of the Graduate Division a statement that he does not intend to become a candidate for a degree. If subsequently he decides to file for candidacy, he must at that time have an evaluation made of all work completed for the purpose of formulating a program leading to the Master's degree.

Admission to Candidacy Depends Upon:

A. A cumulative average of B or better in courses presented for graduate credit. No work of D grade will be accepted.

B. A recommendation from the adviser of the candidate, the Director of the division, or (in the case of Elementary Education students) the Director of the Graduate Division.

C. A comprehensive written examination may be required by the Graduate Council upon the recommendation of the student's adviser or Director of the division in which application is made.

Requirements for Master of Science Degree

A. Completion of thirty-two semester hour program of graduate courses.

A limited amount of transfer credits can be accepted for courses taken at another college:

1. If they are evaluated as being equal in scope and content to those offered by this college.
2. If they form a coherent part of the required program of study.
3. If they have been completed within seven years prior to registration at this college.

B. A cumulative average of B or better in all graduate courses. Not more than nine hours of C, and no work of D grade, will be accepted.

C. Completion of residence requirements. A course shall satisfy the requirements for residence if it is offered on the Campus, within the city of Buffalo, at a College Camp, or at a branch established by the College.

1. For graduates of this college—a minimum of twenty hours *in-residence* out of the total thirty-two.
2. For graduates of another college—a minimum of twenty-four credit hours *in-residence* out of the total thirty-two.

D. Completion of all course work within six years of registration in first course. Five summer sessions of six weeks each is regarded the usual period of attendance. However, this time may be shortened by registration in Evening and Saturday Extension Classes.

1. Students holding full-time teaching positions are limited to a maximum of four credits per semester or eight per academic year in Extension Classes. No credit will be given for

work taken beyond this maximum at this college or elsewhere.

2. In summer session students are permitted to earn a maximum of two credits for a two-weeks program, six credits for a six-weeks program, and eight credits for an eight-weeks program.

Special Students

Students not intending to apply for admission to candidacy may receive permission to register for courses in the Graduate Division.

Registration Fees

Graduate Division fees are \$15.00 per credit hour.

GRADUATE CURRICULA

ART EDUCATION

Courses in Technical and Related Fields

20-23 Sem. Hrs.

TECHNICAL COURSES:

Art 501	Workshop in Art Education Materials, Processes, and Procedures	3 Sem. Hrs.
Art 503	Workshop in Using the Visual Language	3 Sem. Hrs.
Art 506	Seminar in Contemporary Art	2 Sem. Hrs.
Art 507	Graduate Studio in Drawing and Painting	2-6 Sem. Hrs.
Art 508	Graduate Studio in Design and Spatial Organization	2-6 Sem. Hrs.
Art 509	Graduate Studio in Crafts	2-6 Sem. Hrs.
Art 510	Graduate Studio in Photography	3 Sem. Hrs.
Art 512	Graduate Studio in Sculpture	3 Sem. Hrs.
Art 513	Graduate Studio in Graphic Arts	3 Sem. Hrs.
Art 520	Art Camp	2 Sem. Hrs.
Art 526	Special Study	2-4 Sem. Hrs.
Graduate	Courses in the Practical Arts	2-6 Sem. Hrs.

COURSES IN RELATED FIELDS:

Art 502	Art Education Today	3 Sem. Hrs.
Art 504	Seminar in Art in Human Affairs	2 Sem. Hrs.
Art 505	Seminar in Art Education	3 Sem. Hrs.
Art 514	Workshop in the Folk Arts	2 Sem. Hrs.
Art 526	Special Study	2-4 Sem. Hrs.
Graduate	Courses in Psychology and Education	2-6 Sem. Hrs.

Research:

Ed. 575	Research Techniques	2-6 Sem. Hrs.
Art 550	Project	2 Sem. Hrs.
Art 525	Master's Thesis	4 Sem. Hrs.
		6 Sem. Hrs.

(Each candidate, after a conference with his adviser, may select one of the above requirements. Credit may be applied to the technical or related area, or may be divided between them depending upon the nature of the work done.)

Electives in Arts and Sciences

9-12 Sem. Hrs.

Graduate courses in Music, English, Social Studies, Science, and Mathematics. By advisement.

Total requirements: 32 semester hours.

EARLY SECONDARY EDUCATION

The College, responding to the growing demand for teachers in the seventh, eighth and ninth grades, has developed a program which enables the holder of a Bachelor's degree earned before 1958 and an elementary teaching certificate to extend the validity of such certificate to include teaching in the early secondary (junior high) schools of New York State.

The completion of two courses in one summer session, (one in Early Secondary School Education and one in the subject matter field of specialization), will entitle the elementary teacher to a one-year certificate to teach in the early secondary grades. This certification will be renewed from year to year by continued summer session and extension study, and teaching in the early secondary (junior high school) grades. The permanent form of early secondary certification will be granted upon the completion of thirty semester hours in this graduate program and evidence of satisfactory teaching experience at the early secondary grade level.

A teacher preparing for early secondary (junior high) school teaching who wishes also to become a candidate for the Master of Science degree must complete *thirty-two* semester hours of graduate work. Admission, candidacy, and Master's degree requirements will be found under Graduate Program in this bulletin.

Preparation for teaching in the early secondary grades is offered in four subject matter fields: English, Mathematics, Science, Social Studies.

THE TEACHING OF ENGLISH IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

<i>Prerequisites</i>	21 Sem. Hrs.
Written Composition	6 Sem. Hrs.
Speech	6 Sem. Hrs.
Literature (English, American, Contemporary)	9 Sem. Hrs.

The Graduate Program 30-32 Sem. Hrs.*

Required Courses: (by advisement) within the area of specialization
12 Sem. Hrs.

3 hour course in English Literature to be chosen from: Eng. 504, 505, 509, 511A, 511B, 520, 521, 523.

3 hour course in American Literature to be chosen from: Eng. 503, 510, 518, 519, 522, 524.

3 hour course in general literature to be chosen from: Eng. 506, 508, 512, 515.

3 hour course in language to be chosen from: Eng. 500, 526.

Elective Courses: (by advisement) within the area of specialization or other academic fields
9-10 Sem. Hrs.

Professional Courses: 8-11 Sem. Hrs.

Required courses: Ed. 532; (by advisement) Ed. 529, 536.

Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575 Research Methods and Techniques	2-3 Sem. Hrs.
Ed. 550 Project	4 Sem. Hrs.
Ed. 525 Master's Thesis	5 Sem. Hrs.

THE TEACHING OF MATHEMATICS IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

<i>Prerequisites</i>	12 Sem. Hrs.
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Twelve or more semester hours of undergraduate mathematics (chosen by advisement) from the following: General Mathematics, College Algebra, Plane Trigonometry, Plane Analytic Geometry, Differential Calculus, Integral Calculus.

The Graduate Program 30-32 Sem. Hrs.*

Required courses: within the area of specialization, Math. 503, 504, 505, 506
12 Sem. Hrs.

Elective courses: (by advisement) in the area of specialization or other academic field
9-10 Sem. Hrs.

Professional courses: Required courses: Ed. 532; (by advisement) Ed. 529, 536.
8-11 Sem. Hrs.

Electives courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

* 30 semester hours for certification; 32 semester hours for the Master's degree.

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575 Research Methods and Techniques	2-3 Sem. Hrs.
Ed. 550 Project	4 Sem. Hrs.
Ed. 525 Master's Thesis	5 Sem. Hrs.

THE TEACHING OF SCIENCE IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

<i>Prerequisites</i>	24 Sem. Hrs.
Earth Science	6 Sem. Hrs.
Biology	6 Sem. Hrs.
Physics	6 Sem. Hrs.
Chemistry	6 Sem. Hrs.

The Graduate Program 30-32 Sem. Hrs.*

Required courses within the area of specialization: Sci. 501, 518
3-6 Sem. Hrs.

Elective courses (by advisement) to be chosen from: Sci. 502, 503, 504, 505, 523, 527, 528
6-9 Sem. Hrs.

Elective courses (by advisement) within the area of specialization or other academic fields
9-10 Sem. Hrs.

Professional courses 8-11 Sem. Hrs.

Required courses: Ed. 532; (by advisement) Ed. 529, 536.

Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575 Research Methods and Techniques	2-3 Sem. Hrs.
Ed. 550 Project	4 Sem. Hrs.
Ed. 525 Master's Thesis	5 Sem. Hrs.

THE TEACHING OF SOCIAL STUDIES IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

<i>Prerequisites</i>	21 Sem. Hrs.
American History	6 Sem. Hrs.
European History	6 Sem. Hrs.
Geography	3 Sem. Hrs.
Political Science; Economics; Sociology—Minimum of 2 hrs. each in 2 fields	6 Sem. Hrs.
(Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)	

* 30 semester hours for certification; 32 semester hours for the Master's degree.

The Graduate Program

30-32 Sem. Hrs.*

Required courses: (by advisement) within the area of specialization

12 Sem. Hrs.

a. In related fields:

Political Science such as: S.S. 503, 519; Economics such as: S.S. 505;
Sociology such as: S.S. 506, 521—Minimum of 2 hours each in 2
fields

6 Sem. Hrs.

(If this requirement has been met by electives on the undergraduate level
the student may substitute Social Studies graduate electives.)

b. Concentration in 1 of 3 areas

6 Sem. Hrs.

Community and New York State Studies such as: S.S. 506, 507, 509,
510, 519; American Studies such as: S.S. 500, 502, 504, 512, 513,
515, 521; World Studies such as: S.S. 501A, 501B, 508, 511, 516, 518;
Geog. 500, 501.

Elective courses: (by advisement) within the area of specialization or
other academic fields

9-10 Sem. Hrs.

Professional courses

8-11 Sem. Hrs.

Required courses: Ed. 532; (by advisement) Ed. 529, 536.

Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

Research: Required of all students who are candidates for the Master's
degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser,
may select one of the following requirements in research:

Ed. 575 Research Methods and Techniques

2-3 Sem. Hrs.

Ed. 550 Project

4 Sem. Hrs.

Ed. 525 Master's Thesis

5 Sem. Hrs.

ELEMENTARY EDUCATION

Required Professional Courses

9 Sem. Hrs.

El.Ed. 500 Workshop in Elementary Education

6 Sem. Hrs.

El.Ed. 501 Seminar in Elementary Education

3 Sem. Hrs.

Required Courses in Arts and Sciences

12 Sem. Hrs.

English and/or Social Studies

6 Sem. Hrs.

Academic Electives

6 Sem. Hrs.

Research

2-6 Sem. Hrs.

Ed. 575 Research Techniques

2 Sem. Hrs.

El.Ed. 550 Research Project

4 Sem. Hrs.

El.Ed. 525 Thesis

6 Sem. Hrs.

(Each candidate, after a conference with his adviser, may select one of
the above requirements.)

Unrestricted Electives

5-9 Sem. Hrs.

Maximum of 16 hours in education courses permitted including research,
project, or thesis.

Total requirements: 32 semester hours.

* 30 semester hours for certification; 32 semester hours for the Master's degree.

ELEMENTARY PRINCIPALSHIP AND/OR SUPERVISION

Experienced teachers desiring the elementary school principal's
provisional certificate should complete the bachelor's degree and six
semester hours in El.Ed. 503 and 504. Candidates for the permanent
certificate must complete the bachelor's degree and thirty hours in
approved graduate courses including, in addition to El.Ed. 503 and
504, two to four hours in El.Ed. 507 and 520.

Experienced teachers desiring the elementary school supervisor's
provisional certificate should complete the bachelor's degree and six
semester hours in El.Ed. 530 and 531. Candidates for the permanent
certificate must complete an additional twenty-four semester hours in
approved graduate courses, six of which should be in the area of ele-
mentary school supervision.*

Required Professional Courses

12 Sem. Hrs.

El.Ed. 500 Workshop in Elementary Education

6 Sem. Hrs.

El.Ed. 503 Organization of the Elementary
School

3 Sem. Hrs.

El.Ed. 504 Administration of the Elementary
School

3 Sem. Hrs.

or

El.Ed. 530 Principles of Supervision

3 Sem. Hrs.

El.Ed. 531 Supervision of Teaching

3 Sem. Hrs.—6 Sem. Hrs.

Required Courses in Arts and Sciences

8-10 Sem. Hrs.

Required English and/or Social Studies

6 Sem. Hrs.

Academic Electives

2-4 Sem. Hrs.

Research

2-6 Sem. Hrs.

Ed. 575 Research Methods and Techniques

2-3 Sem. Hrs.

Ed. 550 Research Project

4 Sem. Hrs.

Ed. 525 Master's Thesis

6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of the
above requirements.)

Unrestricted Electives

4-10 Sem. Hrs.

Total requirements: 32 semester hours.

EXCEPTIONAL CHILDREN EDUCATION

EDUCATION OF CHILDREN WITH MENTAL RETARDATION

Required courses in the field of specialization

12 Sem. Hrs.

By advisement, from the following:

Ex.Ed. 527 Guidance of Children Who Are Exceptional

2 Sem. Hrs.

Ex.Ed. 535 Mental Measurement

2 Sem. Hrs.

* For specific course offerings consult Summer Session or Extension bulletins.

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Ex.Ed. 538	Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex.Ed. 551	Practicum in Education of Children with Mental Retardation	4 Sem. Hrs.
Ex.Ed. 561	Occupational Education for Children with Mental Retardation	2 Sem. Hrs.
Ex.Ed. 571	Occupational Skills for Children with Mental Retardation	2 Sem. Hrs.
Ex.Ed. 591	Nature and Needs of Children Who Present Exceptional Problems of Learning	2 Sem. Hrs.

<i>Required Courses in Arts and Sciences</i>		12 Sem. Hrs.
English and/or Social Studies		6 Sem. Hrs.
Academic Electives		6 Sem. Hrs.

<i>Research</i>		2-6 Sem. Hrs.
Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
El.Ed. 550	Research Project	4 Sem. Hrs.
El.Ed. 525	Master's Thesis	6 Sem. Hrs.

<i>Unrestricted Electives</i>		5-9 Sem. Hrs.
<i>Total requirements: 32 semester hours.</i>		

EDUCATION OF CHILDREN WITH ORTHOPEDIC HANDICAP

<i>Required courses in the field of specialization</i>		12 Sem. Hrs.
By advisement, from the following:		
Ex.Ed. 502	Workshop in the Education of Children with Orthopedic Handicap	6 Sem. Hrs.
Ex.Ed. 512	Seminar in Education of Children with Orthopedic Handicap	2 Sem. Hrs.
Ex.Ed. 527	Guidance of Children Who Are Exceptional	2 Sem. Hrs.
Ex.Ed. 538	Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex.Ed. 591	Nature and Needs of Children Who Present Exceptional Problems of Learning	2 Sem. Hrs.

<i>Required Courses in Arts and Sciences</i>		12 Sem. Hrs.
English and/or Social Studies		6 Sem. Hrs.
Academic Electives		6 Sem. Hrs.

<i>Research</i>		2-6 Sem. Hrs.
Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
El.Ed. 550	Research Project	4 Sem. Hrs.
El.Ed. 525	Master's Thesis	6 Sem. Hrs.

<i>Unrestricted Electives</i>		5-9 Sem. Hrs.
<i>Total requirements: 32 semester hours.</i>		

EDUCATION OF CHILDREN WITH SPEECH IMPAIRMENT

<i>Required courses in the field of specialization</i>		12 Sem. Hrs.
By advisement, from the following:		
Ex.Ed. 503	Clinical Procedures in Speech Correction	3 Sem. Hrs.
Ex.Ed. 513	Seminar in Speech Science	3 Sem. Hrs.
Ex.Ed. 520	Speech Correction for Elementary School Teachers	2 Sem. Hrs.
Ex.Ed. 523	Applied Phonetics	2 Sem. Hrs.
Ex.Ed. 524	Introduction to Audiology	2 Sem. Hrs.
Ex.Ed. 527	Guidance of Children Who Are Exceptional	2 Sem. Hrs.
Ex.Ed. 533	Seminar in Speech Pathology	2 Sem. Hrs.
Ex.Ed. 538	Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex.Ed. 591	Nature and Needs of Children Who Present Exceptional Problems of Learning	2 Sem. Hrs.

<i>Required Courses in Arts and Sciences</i>		12 Sem. Hrs.
English and/or Social Studies		6 Sem. Hrs.
Academic Electives		6 Sem. Hrs.

<i>Research</i>		2-6 Sem. Hrs.
Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
El.Ed. 550	Research Project	4 Sem. Hrs.
El.Ed. 525	Master's Thesis	6 Sem. Hrs.

<i>Unrestricted Electives</i>		5-9 Sem. Hrs.
<i>Total requirements: 32 semester hours.</i>		

EDUCATION OF CHILDREN WITH HEARING IMPAIRMENT

<i>Required courses in the field of specialization</i>		12 Sem. Hrs.
Ex.Ed. 506	Workshop in Education of Children with Hearing Impairment	6 Sem. Hrs.
Ex.Ed. 524	Introduction to Audiology	2 Sem. Hrs.
Ex.Ed. 527	Guidance of Children Who Are Exceptional	2 Sem. Hrs.
Ex.Ed. 538	Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex.Ed. 542	Speech Reading	2 Sem. Hrs.
Ex.Ed. 591	Nature and Needs of Children Who Present Problems of Learning	2 Sem. Hrs.

<i>Required Courses in Arts and Sciences</i>		12 Sem. Hrs.
English and/or Social Studies		6 Sem. Hrs.
Academic Electives		6 Sem. Hrs.

<i>Research</i>		2-6 Sem. Hrs.
Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
El.Ed. 550	Research Project	4 Sem. Hrs.
El.Ed. 525	Master's Thesis	6 Sem. Hrs.

Unrestricted Electives

5-9 Sem. Hrs.

Total requirements: 32 semester hours.

EDUCATION OF CHILDREN WITH VISUAL IMPAIRMENT

Required courses in the field of specialization 12 Sem. Hrs.

Ex.Ed. 527 Guidance of Children Who Are Exceptional 2 Sem. Hrs.

Ex.Ed. 532 Workshop in Education of Children with Visual Handicap 6 Sem. Hrs.

Ex.Ed. 538 Understanding the Problem Child in the Classroom 2 Sem. Hrs.

Ex.Ed. 591 Nature and Needs of Children Who Present Problems of Learning 2 Sem. Hrs.

Required Courses in Arts and Sciences 12 Sem. Hrs.

English and/or Social Studies 6 Sem. Hrs.

Academic Electives 6 Sem. Hrs.

Research 2-6 Sem. Hrs.

Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.

El.Ed. 550 Research Project 4 Sem. Hrs.

El.Ed. 525 Master's Thesis 6 Sem. Hrs.

Unrestricted Electives 5-9 Sem. Hrs.

Total requirements: 32 semester hours.

HOME ECONOMICS EDUCATION

Courses in Technical and Related Fields 20-23 Sem. Hrs.

Technical Courses:

Family Life (including Home Management, etc.) 2-6 Sem. Hrs.

Foods and Nutrition and/or Clothing and Textiles 2-6 Sem. Hrs.

Courses in Related Fields:

Seminar in Home Economics Ed. (required) 3 Sem. Hrs.

Workshop in Home Economics Ed. or 3-6 Sem. Hrs.

Electives (by advisement) 2-5 Sem. Hrs.

RESEARCH:

Ed. 575 Research Techniques 2 Sem. Hrs.

H.Ec. 550 Project 4 Sem. Hrs.

H.Ec. 525 Thesis 6 Sem. Hrs.

(Each candidate, after conference with her adviser, may select one of the above requirements. Credit may be applied to technical or related area or may be divided between them depending upon the nature of the work done.)

Graduate Electives in Arts and Sciences 9-12 Sem. Hrs.

Social Studies 2 Sem. Hrs.

Science and/or Art 2-4 Sem. Hrs.

Unrestricted Elective 4-6 Sem. Hrs.

Total requirements: 32 semester hours.

INDUSTRIAL ARTS EDUCATION

Courses in Technical and Related Fields 20-23 Sem. Hrs.

Technical Courses 12 Sem. Hrs.

Specialization in Shop Laboratory 2-4 Sem. Hrs.

Workshop in Industrial Arts Education 2-4 Sem. Hrs.

Seminar in Industrial Arts Education 2-4 Sem. Hrs.

Field Studies in Industrial Areas 3-6 Sem. Hrs.

Courses in Related Fields 10 Sem. Hrs.

Workshop in Industrial Art Education 2-4 Sem. Hrs.

Contemporary Labor Problems and Legislation 2-4 Sem. Hrs.

Occupational Activities for the Handicapped 2-6 Sem. Hrs.

Electives (by advisement) 2-6 Sem. Hrs.

RESEARCH:

Ed. 575 Research Techniques 2 Sem. Hrs.

I.A. 550 Project 4 Sem. Hrs.

I.A. 525 Thesis 6 Sem. Hrs.

(Each candidate, after conference with his adviser, may select one of the above requirements. Credit may be applied to technical or related fields or divided between them depending upon the nature of the work done.)

Graduate Electives in Arts and Sciences 9-12 Sem. Hrs.

English 2-4 Sem. Hrs.

Mathematics and/or Science 3-6 Sem. Hrs.

Social Studies 2-4 Sem. Hrs.

Unrestricted Electives 3-6 Sem. Hrs.

Total requirements: 32 semester hours.

INTENSIVE TEACHER TRAINING PROGRAM

ELEMENTARY TEACHING CERTIFICATION FOR LIBERAL ARTS

COLLEGE GRADUATES

To help relieve the extreme shortage of elementary teachers the College offers an intensive training program through which graduates of other colleges may prepare for elementary school teaching. The completion of a minimum of thirty semester hours, on the graduate level, twenty-four hours of which shall be in education courses approved for elementary school teaching, and evidence of satisfactory teaching, as determined by an approved evaluation program, will entitle the student to a permanent certificate to teach in the elementary grades.

To enter this program college graduates register in the Graduate Division for certain specified Summer Session or Extension courses.

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 Education 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.

Supplementary experiences planned by the student, her adviser and other teachers as an extension of regular college work include: working during the summer as a waitress or cook in a hotel, as an assistant in a tea room, as an assistant dietician in a hospital, or as a teacher in a neighborhood house or playground. The first supplementary experience must be completed by the end of the summer following the sophomore year; the second by the end of the first semester of the senior year.

Home Economics students observe and participate in teaching during their junior year. In the senior year, they teach for one semester in specially selected central and village schools. During this time they gain a maturing experience by residing in these communities.

The Home Economics Education Division is affiliated with the Merrill-Palmer School 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 and who continue to complete six semester hours of approved courses, or the equivalent in approved professional activities, during each successive ten-year period.

Applicants for admission to advance standing will be informed of the requirements for the degree upon evaluation of transcripts by the

Director of the division. A college graduate wishing to complete certification requirements only, should send transcripts to the Bureau of Certification, State Education Department, Albany, New York, for evaluation.

The Grace A. Powell Home Bureau Scholarship, provided by members of the Home Bureau of New York State, and the Elizabeth C. Lange Loan Fund are available to Home Economics students.

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HOME ECONOMICS EDUCATION CURRICULUM

Students entering as Freshmen prior to July 1, 1957 should refer to the 1956-57 or 1957-58 General Catalog for the course listings by years of the curriculum.

Students entering July 1, 1957, and thereafter, will follow the year by year course sequences as listed below.

FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ed. 151-152 Human Growth and Development	4	3	4	3
G.E. 101-102 Man and His Institutions: Social, Economic and Political.....	3	3	3	3
G.E. 105-106 Effective Communication	3	3	3	3
H.Ec. 90 Clothing	2	0	..	..
H.Ec. 91 Foods and Nutrition.....	..	..	2	0
H.Ec. 95 Freshman Seminar .....	..	..	1	0
H.Ec. 101-102 Introduction to Home Economics	6	4	6	4
Or. 10 Orientation	1	0	..	..
P.Ed. 101-102 Physical Education Activities..	2	1	2	1
Sci. 151-152 Chemistry	4	3	4	3
Total hours	25	17	25	17

SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Art 323 Design for the Individual and the Home	4	3	..	..
Elective .....	..	..	3	3
G.E. 103 Mathematics in Modern Life.....	2	2	..	..
G.E. 104 Ways of Knowing.....	..	..	2	2
G.E. 201 Family Living	2	2	..	..
G.E. 203-204 Man and His Natural Environment	3	3	3	3
H.Ec. 203 The Child in the Family.....	..	..	5	3
H.Ec. 204 Clothing and Costume Design.....	6	4	..	..
H.Ec. 205 Foods and Nutrition.....	..	..	6	4
H.Ec. 206 Family Health and Home Nursing ..	..	..	3	2
Sci. 241 Biology for Home Economics Students	6	4	..	..
Total hours	23	18	22	17

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Elective	3	3	3	3
G.E. 301-302 Ideas of Man and His World in Literature	3	3	2	2
H.Ec. 303 Economics of the Household.....	4	3	..	..
H.Ec. 312 Marriage and Family Relations....	..	..	3	3
H.Ec. 325 Clothing and Costume Design.....	5	3	..	..
or				
H.Ec. 327 Clothing and Costume Design				
H.Ec. 326 Foods and Nutrition.....	..	..	5	3
or				
H.Ec. 328 Foods and Nutrition				
H.Ec.Ed. 323 Home Economics Methods and Materials .....	..	..	9	6
Mus. 320 Music in Living.....	3	3	..	..
Total hours	18	15	22	17

FOURTH YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Elective	3	3	..	..
Elective	3	3	..	..
G.E. 401 Ideas and Social Change in Western Civilization	3	3	..	..
H.Ec. 401 Home Management .....	..	..	10	4
H.Ec. 405 Household Equipment	4	3	..	..
H.Ec. 407 Housing and Home Planning.....	5	4	..	..
H.Ec.Ed. 421 Teaching Practicum .....	..	..	20	9
H.Ec. Senior Seminar	1	0	1	0
Total hours	19	16	31	13

Industrial Arts Education Division

Kenneth W. Brown, Director

Professors *Callan, Cook, Fontana, Neuthardt, Russell*; Associate Professors *Ball, Brossman, Grabau, Harlan, Morrice, Steffen, Steinzor, Waagen*; Assistant Professors *Bowers, Cappiello, Meyer, Miller, Palmer, Poleszak*.

Graduates of the Industrial Arts Division receive a Bachelor of Science degree, are certified to teach Industrial Arts in the elementary and secondary schools of New York State, and may qualify through an elective sequence to teach Driver Education.

The curriculum deals with the tools, materials, processes, products and occupations of the principal industries. Basic courses are required in metal, textile, graphic arts, electrical, wood, ceramic and transportation; advanced elective courses permit specialization in two or more areas.

The professional phase of the curriculum includes courses in psychology, education, Industrial Arts methods, a period of observation (of teaching), and a required semester 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 two units of science.

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.

INDUSTRIAL ARTS EDUCATION CURRICULUM

Students entering as Freshmen prior to July 1, 1957 should refer to the 1956-57 or 1957-58 General Catalog for the course listings by years of the curriculum.

Students entering July 1, 1957, and thereafter, will follow the year by year course sequences as listed below.

FIRST YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
I.A. 103-104 Mechanical Drawing	5	2	5	2
G.E. 105-6 Effective Communication	3	3	3	3
Art 111-112 Essentials of Ind. Arts Design...	3	2	3	2
I.A. 102 Woodwork	10	4	..	..
I.A. 202 Metalwork .....	..	..	10	4
G.E. 103 Mathematics and Modern Life.....	2	2	..	..
Math. 105 Applied Mathematics .....	..	..	2	2
G.E. 103 Ways of Knowing.....	2	2	..	..
I.A. 111 Introduction to Industrial Arts Education	3	2	..	..
I.A. 406 Ceramics .....	..	..	10	4
Or. 10 Orientation	1	0	..	..
Total hours	29	17	33	17

SECOND YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
Ed. 151-152 Human Growth and Development	4	3	4	3
G.E. 203-204 Man and His Natural Environment	4	3	4	3
G.E. 101-102 Man and His Institutions.....	3	3	3	3
I.A. 101 Electricity	10	4	..	..
I.A. 301 Graphic Arts .....	..	..	10	4
G.E. 201 Family Living	2	2	..	..
Math. 205 Applied Mathematics	2	2	..	..
I.A. 407 Textiles .....	..	..	10	4
P.Ed. 101-102 Physical Education Activities..	2	1	2	1
Total hours	27	18	33	18

Division A (Student Teaching First Nine Weeks)

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
G.E. 301-302 Ideas of Man and His World in Literature	3	3	2	2
Sci. 351 Physics	4	3	..	..
I.A. 311 Principles and Practices of Industrial Arts	3	3	..	..
I.A. 312 Principles and Practices of Industrial Arts .....	..	..	3	3
*I.A. 411 Student Teaching and Conference..	..	..	12	7
I.A. 201 Transportation	10	4	..	..
Advanced Shop or Drawing.....	7	3	7	3
Total hours	27	16	24	15

FOURTH YEAR

Sci. 352 Chemistry	4	3	..	..
G.E. 401 Ideas and Social Change.....	..	..	3	3
*I.A. 411 Student Teaching and Conference..	13	8	..	..
Advanced Shop or Drawing.....	..	..	7	3
I.A. 412 Laboratory in Industrial Arts Teaching .....	..	..	7	3
Electives	3	3	6	6
Total hours	20	14	23	15

* Students in I.A. 411 are required to teach in both unit and general shops. This necessitates living out of town one-half semester. Students must be prepared to arrange their personal affairs accordingly.

Division B (Student Teaching Second Nine Weeks)

THIRD YEAR

Course Titles	First Semester		Second Semester	
	Class Hours	Credit Hours	Class Hours	Credit Hours
G.E. 301-302 Ideas of Man and His World in Literature	3	3	2	2
Sci. 351 Physics	4	3	..	..
I.A. 311 Principles and Practices of Industrial Arts	3	3	..	..
*I.A. 411 Student Teaching and Conference ..	..	..	12	7
I.A. 201 Transportation	10	4	..	..
Advanced Shop or Drawing	7	3	7	3
Sci. 352 Chemistry .....	..	..	4	3
Total hours	27	16	25	15

FOURTH YEAR

I.A. 312 Principles and Practices of Industrial Arts	3	3	..	..
G.E. 401 Ideas and Social Change .....	..	..	3	3
*I.A. 411 Student Teaching and Conference ..	13	8	..	..
Advanced Shop or Drawing .....	..	..	7	3
I.A. 412 Laboratory in Industrial Arts Teaching .....	..	..	7	3
Electives	3	3	6	6
Total hours	19	14	23	15

* Students in I.A. 411 are required to teach in both unit and general shops. This necessitates living out of town one-half semester. Students must be prepared to arrange their personal affairs accordingly.

Description of Courses

Offered by Divisions and Departments of the College

Explanation of Course Numbers—All credit courses have three figure numbers. Courses numbered below 100 are non-credit remedial courses. Graduate courses are numbered 500 and above. Those numbered from 100 to 199 are primarily freshmen courses; those from 200 to 299 primarily sophomore courses; those from 300 to 399 primarily junior courses; those from 400 to 499 primarily senior courses.

Elective Courses—All curricula offered by the College permit students to select elective courses. The number of semester hours elective credit varies among the divisions. In general the electives are offered only to the upper classes: sophomore, junior, and senior. Tentative elective courses are listed for each department and are subject to change or cancellation in accordance with changing demands or circumstances. Students should confer with faculty advisers and instructors in the choice of electives.

Orientation—This non-credit course is required of all freshmen in the first semester. It emphasizes study skills, group leadership, educational, social, and professional adjustments.

ART EDUCATION DIVISION

Stanley A. Czurles, Director

Professors Bauer, Browne, Hubler, Lofgren, Thomas, Truesdale, Winebrenner; Associate Professors Ahrens*, Bolinsky, Dakin, Green, Grossman, Heyman, Karcher, Lindemann, Squeri, Tetkowski; Assistant Professors Case, Cataldo, Erickson, Haberer, Hoffa, Jiskra, O'Connell, Reinholtz, Rosso, Stark, Wise.

* On leave.

ART 111-112. ESSENTIALS OF INDUSTRIAL ARTS DESIGN—Basic techniques in drawing, lettering, design planning; fundamental principles of structural and decorative design, application in handicraft and industrial production; selection and appraisal of objects of artistic merit; application of design in various materials and processes of the industrial arts program; original design of shop projects. Required of Industrial Arts freshmen. *Three hours per week. Both semesters. Credit: four semester hours.*

ART 113. ESSENTIALS OF ART FOR EXCEPTIONAL CHILDREN EDUCATION—Introductory studio experience in the visual and graphic arts exploring expressive, creative, and developmental possibilities. Required of all Exceptional Education sophomores. *Four hours per week. Each semester. Credit: three semester hours.*

ART 149-150. FIELD STUDIES IN ART—Field trips and study of art as it functions in the life of the community. Required of Art Education freshmen. *Two hours per week. Credit: two semester hours.*

ART 151-152. INTRODUCTION TO ART AND EDUCATION—Contemporary trends in art education; significant qualities common to painting, architecture, clothing, interior design, industrial design, and other types of plastic and pictorial art. Required of Art Education freshmen. *Six hours per week. Credit: six semester hours.*

ART 153-154. INTRODUCTION TO DESIGN—Formal organization in two and three dimensions, incorporating the drawing process, the constructional process, and the selective process through a variety of experiences from painting and drawing to work with hand and power tools. Required of Art Education freshmen. *Eight hours per week. Credit: eight semester hours.*

ART 161. ART IN LIVING—Introductory studio experiences in the visual and graphic arts exploring expressive and creative possibilities through a variety of media and selection and arrangement of materials and objects. Required of all Home Economics Education freshmen. *Four hours per week. Credit: three semester hours.*

ART 175-176. FUNDAMENTALS OF DRAWING—Fundamentals of the drawing process; history of drawing; anatomy study; design in drawing. Required of Art Education freshmen. *Four hours per week. Both semesters. Credit: four semester hours.*

ART 177-178. ART EDUCATION—Art experiences and their function in the lives of individuals and society; trends and developments in art education at various school levels, in community and group programs. Required of Art Education freshmen. *Three hours per week. Both semesters. Credit: four semester hours.*

ART 179-180. FUNDAMENTALS OF DESIGN—Methods of approach to design; elements of composition; function of design in two and three dimensions; design with a variety of materials, tools, processes. Required of Art Education freshmen. *Four hours per week. Both semesters. Credit: four semester hours.*

ART 181. FUNDAMENTALS OF PHOTOGRAPHY—Fundamentals of the photographic processes; use of equipment; film development and printing; composition; recordings; aesthetic and experimental possibilities. Required of Art Education freshmen. *Four hours per week. Each semester. Credit: two semester hours.*

ART 182. LETTERING AND DESIGN—Structure, styles of lettering; design with lettering; fundamentals of advertising and display. Required of Art Education freshmen. *Four hours per week. Each semester. Credit: two semester hours.*

ART 200. ESSENTIALS OF ART—Art for the self; the essential creative and expressive processes in the visual and plastic arts, their relationship to the development of the self, and their function in the society in which we live. Required of Elementary Education sophomores. *Three hours per week. Each semester. Credit: two semester hours.*

ART 251. DRAWING AND PAINTING—Two-dimensional design; oil and water media, figure drawing, perspective; related historical study. Required of Art Education sophomores. *Eight hours per week. Credit: four semester hours.*

ART 252. DRAWING AND GRAPHIC ARTS—Two-dimensional design; lithography, wood engraving, etching serigraphy, dry point; related historical study. Required of Art Education sophomores. *Eight hours per week. Credit: four semester hours.*

ART 253. CRAFTS—Creative design with clay, paper, textiles, leather, wood, metal and other materials; the function of crafts activities in elementary, secondary, college, and adult education. Required of Art Education sophomores. *Seven hours per week. Credit: three and one-half semester hours.*

ART 254. DESIGN WORKSHOP—Personal expression and design of utilitarian forms through creative use of hand and power tools; mechanical drawing as a design language. Required of Art Education sophomores. *Five hours per week. Credit: two and one-half semester hours.*

ART 255. STUDY OF CHILD ART—Children's art activities in school, home, community; expression and creative development; directed observation and participation in elementary school art education. Required of Art Education sophomores. *Four hours per week. Credit: two semester hours.*

ART 256. ART IN EVERYDAY LIFE—Art as related to personal life, home, school, community, industry, and commerce; architectural and interior design, costume design, consumer education, interrelationship of the arts. Required of Art Education sophomores. *Seven hours per week. Credit: three and one-half semester hours.*

ART 257. LETTERING AND LAYOUT—Lettering and layout design; application to school and commercial problems; planning exhibitions, developing publications and teaching aids. Required of Art Education sophomores. *Three hours per week. Credit: one and one-half semester hours.*

ART 275. ART AND THE CHILD—Children's intellectual, emotional, physical, perceptual and creative growth; the implications these growth patterns have in developing art experiences and programs for children; directed observation and participation in organized programs and individually determined activities of children. Required of Art Education sophomores. *Three hours per week. Each semester. Credit: two semester hours.*

ART 276. ART AND THE ADOLESCENT—Adolescents' intellectual, emotional, physical, perceptual and creative growth; the implications these growth patterns have in developing art experiences and programs for adolescents; directed observation and participation in organized programs and individually determined activities of adolescents. Required of Art Education sophomores. *Three hours per week. Each semester. Credit: two semester hours.*

ART 277. DESIGN WITH WOOD—Wood as a medium of expression and object design; design and expression using the unique qualities of various woods and tooling processes; design combining wood with other substances. Required of Art Education sophomores. *Four hours per week. Each semester. Credit: two semester hours.*

ART 278. PAINTING—Expression and design with a variety of two-dimensional media; related historical study. Required of Art Education sophomores. *Four hours per week. Each semester. Credit: two semester hours.*

ART 279. DESIGN WITH CLAY—Clay as a medium of expression and object design; design possibilities of various forming, glazing, and firing processes. Required of Art Education sophomores. *Four hours per week. Each semester. Credit: two semester hours.*

ART 283. DESIGN WITH METAL—Metal as a medium of expression and object design; design and expression using the unique qualities of various metals, tooling and structural processes; design combining metal and other substances. Required of Art Education sophomores. *Four hours per week. Each semester. Credit: two semester hours.*

ART 284. ART HISTORY—Relation of graphic and plastic arts to the way people live; aesthetic values; historic masterpieces from prehistoric to the

Renaissance period. Required of Art Education sophomores. *Two hours per week. Each semester. Credit: two semester hours.*

ART 290. 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. Elective for all students except Art Education majors. *Four hours per week. First semester. Credit: three semester hours.*

ART 300. ESSENTIALS OF ART—Art in human development. Art experiences in 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. Required of Elementary Education juniors. Prerequisite: Art 200. *Three hours per week. Each semester. Credit: two semester hours.*

ART 314. DRAWING I—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. Elective for all students except Art Education majors. *Four hours per week. Second semester. Credit: three semester hours.*

ART 323. 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. Required of all Home Economics Education juniors. *Four hours per week. Each semester. Credit: three semester hours.*

ART 351. PRE-TEACHING WORKSHOP—Development, selection, and organization of teaching materials and procedures on elementary and secondary levels; observation and participation. Required of all Art Education juniors. *Four hours per week. First semester. Credit: two semester hours.*

ART 352. STUDENT TEACHING WORKSHOP—Critical analysis of problems encountered in junior year student teaching; consideration of philosophical, theoretical and practical aspects of their possible solution; identification of individual needs and programming of activities to improve student teaching in the senior year. Required of all Art Education students subsequent to Student Teaching I. *Eight hours per week for eight weeks. Each semester. Credit: two semester hours.*

ART 353. ADVANCED DESIGN STUDIO—Continuation of Art 254; design and production of objects; the interrelated use of mechanical drawing and sketching as visualizing procedures; design in the selection and shaping of

materials such as wood and metal; technical information, and skill in the use of hand and power tools. Required of all Art Education juniors. *Eight hours per week. First semester. Credit: four semester hours.*

ART 354. STUDIO IN PHOTOGRAPHY I—Photography as an art medium and an educational tool; creative and expressive use of photographic equipment, material and processes. Elective for Art Education juniors and seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 355. ART IN HUMAN AFFAIRS—The relation of graphic and plastic arts to the way people live; esthetic values of the past and present; historic masterpieces. Required of all Art Education juniors. *Two hours per week. Each semester. Credit: two semester hours.*

ART 356. STUDIO IN PAINTING I—Advanced painting; media, style and content based on individual needs. Elective for Art Education juniors and seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 358. STUDIO IN JEWELRY I—Exploration of materials and processes in jewelry-making emphasizing creative design; activities suitable for upper elementary grades, junior and senior high school, and adult education. Elective for Art Education juniors and seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 359. STUDIO IN SCULPTURE I—Sculpture as a means of individual and group expression; theory and processes using media such as wood, stone, plastic, plaster, cement block and metal. Elective for Art Education juniors and seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 360. STUDENT TEACHING I—Supervised student teaching at assigned levels from kindergarten through senior high school in various types of schools and communities. Required of all Art Education juniors. *Four days teaching, one day seminar each week for eight weeks. Each semester. Credit: seven semester hours.*

ART 361. STUDIO IN GRAPHIC ARTS I—Lithography, wood engraving, etching, serigraphy, dry point, engraving. Elective for Art Education juniors and seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 362. STUDIO IN ADVERTISING DESIGN I—Typographic design, layout for various types of publications, technical illustration and preparation of material for various reproduction processes. Elective for Art Education juniors and seniors. Prerequisite: Art 257. *Four hours per week. Each semester. Credit: two semester hours.*

ART 363. STUDIO IN PRODUCT DESIGN I—Design for individual and mass production of objects using wood, metal, plastics, stone and ceramics; hand and power tool processes. Elective for Art Education juniors and seniors. Prerequisite: Art 353. *Four hours per week. Each semester. Credit: two semester hours.*

ART 364. STUDIO IN HOME AND FURNISHINGS DESIGN I—Architectural planning; design, selection and arrangement of home furnishings. Elective for Art Education juniors and seniors. Prerequisite: Art 256. *Four hours per week. Each semester. Credit: two semester hours.*

ART 365. STUDIO IN TEXTILE AND CLOTHING DESIGN I—Design of textiles, personal dress, and costumes for stage and other presentations. Elective for Art Education juniors and seniors. Prerequisite: Art 256. *Four hours per week. Each semester. Credit: two semester hours.*

ART 375. STUDENT TEACHING AND SEMINAR—Supervised student teaching at assigned levels from kindergarten through senior high school in various types of schools and communities; individual and group planning and evaluating conferences. Required of Art Education students in junior or senior year. *Full time. Each semester. Credit: fifteen semester hours.*

ART 377. COMMUNITY AND HOME PLANNING—Home as personal design for living; designing new, redesigning old homes; social, economic, political, geographic, aesthetic and functional factors affecting design of home and community; designing and redesigning schools and art rooms. Required of Art Education juniors. *Six hours per week. Each semester. Credit: three semester hours.*

ART 378. PAINTING—Advanced expression and design with a variety of two-dimensional media; related historical study. Required of Art Education students in junior or senior year. Prerequisite: Art 278. *Four hours per week. Each semester. Credit: two semester hours.*

ART 379. DESIGN WITH FIBERS—Fibers in the various processed forms of thread, string, yarn, etc. as a medium of expression and object design; unique qualities and design possibilities of the various basic substances, methods of fabrication and color structure; designing textiles and clothing. Required of Art Education juniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 384. ART HISTORY—Relation of graphic and plastic arts to the way people live; aesthetic values; historic masterpieces from the Renaissance to the contemporary period. Required of Art Education students in junior or senior year. Prerequisite: Art 284. *Two hours per week. Each semester. Credit: two semester hours.*

ART 400. WORKSHOP IN CRAFTS I—Creative experiences in a variety of crafts such as leather, metal, ceramics, and jewelry; individual projects. Elective for all students except Art Education majors. *Four hours per week. Each semester. Credit: three semester hours.*

ART 406. CREATIVE ART WORKSHOP—Activities and art materials suitable for the elementary grades; individual experiment in various media; watercolor, powder paint, finger paint, tempera, inks, dyes, crayon, paper, cardboard, wood, cloth, soap, clay, plaster, rubber, plastics, wire, thin metals, yarn and other materials. Elective for all students except Art Education majors. *Four hours per week. Each semester. Credit: three semester hours.*

ART 407. WORKSHOP IN CRAFTS II—Individual projects to be undertaken beyond work covered in Art 400. Elective for all students except Art Education majors. *Four hours per week. Each semester. Credit: three semester hours.*

ART 451. STUDENT TEACHING II—Student teaching five days a week for eight weeks; student to live in community during the period in which he teaches; periodic supervisory conferences. Required of all Art Education seniors. *First semester. Credit: eight semester hours.*

ART 452. POST-TEACHING SEMINAR—Art as part of school and related community activities; joint consideration of common educational problems, with students of other Divisions; responsibilities of the art teacher as consultant, supervisor, core-resource person, and specialist; planning and working out details of facilities and program for the specific teaching positions accepted by the seniors; art room planning; budgeting procedures; sources of equipment and supplies. Required of all Art Education seniors. *Two hours per week. Second semester. Credit: one semester hour.*

ART 456. CONTEMPORARY ART—The arts as they affect and reflect contemporary and past civilizations. Required of all Art Education seniors. *Two hours per week. Each semester. Credit: two semester hours.*

ART 458. THEATRE DESIGN I—Philosophy, techniques, and practices in design for the dramatic arts; scenery, costume, makeup, lighting and allied stage crafts; model sets and production work. Required of all Art Education seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 460. POTTERY AND CERAMIC SCULPTURE I—Design of pottery and plastic sculptured form; creative potential of clay in the art program from pre-school through adult education. Required of all Art Education seniors. *Four hours per week. Each semester. Credit: two semester hours.*

ART 461. STUDIO IN PHOTOGRAPHY II—Advanced technical camera and dark room processes and their application in pictorial composition, creative expression, recording, and in the development of other communica-

tion and teaching tools. Elective for Art Education juniors and seniors. Prerequisite: Art 354. *Four hours per week. Each semester. Credit: two semester hours.*

ART 462. STUDIO IN PHOTOGRAPHY III—Concentration on an individually selected project or area of exploration in advanced photography as a creative and expressive art medium, or in the application of photographic processes to the development of teaching aids, school publications, recording and reproduction processes. Elective for Art Education juniors and seniors. Prerequisite: Art 461. *Four hours per week. Each semester. Credit: two semester hours.*

ART 463. STUDIO IN PAINTING II—Advanced expression through painting; personal preparation and exploration of paints, grounds, etc. for greater control and scope of expression; related study of historic and contemporary paintings. Elective for Art Education juniors and seniors. Prerequisite: Art 356. *Four hours per week. Each semester. Credit: two semester hours.*

ART 464. STUDIO IN PAINTING III—Concentration on an individually selected project, medium, or area of development in painting. Elective for Art Education juniors and seniors. Prerequisite: Art 463. *Four hours per week. Each semester. Credit: two semester hours.*

ART 465. STUDIO IN JEWELRY II—Advanced exploration of media and techniques in jewelry; advanced development of ability in creative design. Elective for Art Education juniors and seniors. Prerequisite: Art 358. *Four hours per week. Each semester. Credit: two semester hours.*

ART 466. STUDIO IN JEWELRY III—Concentration on an individually selected project or area of creative design in jewelry. Elective for Art Education juniors and seniors. Prerequisite: Art 465. *Four hours per week. Each semester. Credit: two semester hours.*

ART 467. STUDIO IN SCULPTURE II—Advanced exploration of media and techniques of sculpture; advanced development of expression through three-dimensional materials. Elective for Art Education juniors and seniors. Prerequisite: Art 359. *Four hours per week. Each semester. Credit: two semester hours.*

ART 468. STUDIO IN SCULPTURE III—Concentration on an individually selected sculpture project. Elective for Art Education juniors and seniors. Prerequisite: Art 467. *Four hours per week. Each semester. Credit: two semester hours.*

ART 469. STUDIO IN GRAPHIC ARTS II—Advanced exploration of media and techniques in lithography, wood engraving, etching, serigraphy, dry point, engraving; advanced development of expression through the graphic

processes. Elective for Art Education juniors and seniors. Prerequisite: Art 361. *Four hours per week. Each semester. Credit: two semester hours.*

ART 470. STUDIO IN GRAPHIC ARTS III—Concentration on an individually selected graphic arts project using a single medium or area of expression. Elective for Art Education juniors and seniors. Prerequisite: Art 469. *Four hours per week. Each semester. Credit: two semester hours.*

ART 471. STUDIO IN ADVERTISING DESIGN II—Advanced study of layout and typographic design, advanced technical illustration, preparation of art work for color separation and printing processes; design for packaging and display. Elective for Art Education juniors and seniors. Prerequisite: Art 362. *Four hours per week. Each semester. Credit: two semester hours.*

ART 472. STUDIO IN ADVERTISING DESIGN III—Individual selection of a complete advertising campaign project, planning and preparation of material for the various advertising channels, publics, and processes of reproduction involved, or concentration on an area of illustration. Elective for Art Education juniors and seniors. Prerequisite: Art 471. *Four hours per week. Each semester. Credit: two semester hours.*

ART 473. STUDIO IN PRODUCT DESIGN II—Advanced study of product design; custom design for specific settings in home, school, business; experiments in design with recently developed materials and processes; design using pre-fabricated units. Elective for Art Education juniors and seniors. Prerequisite: Art 363. *Four hours per week. Each semester. Credit: two semester hours.*

ART 474. STUDIO IN PRODUCT DESIGN III—Concentration on an individually selected project or area of product design. Elective for Art Education juniors and seniors. Prerequisite: Art 473. *Four hours per week. Each semester. Credit: two semester hours.*

ART 475. STUDIO IN HOME AND FURNISHINGS DESIGN II—Advanced study of architectural planning; designing built-in furniture and custom-made textiles; advanced study of design and arrangement of manufactured goods. Elective for Art Education juniors and seniors. Prerequisite: Art 364. *Four hours per week. Each semester. Credit: two semester hours.*

ART 476. STUDIO IN HOME AND FURNISHINGS DESIGN III—Concentration on an individually selected project or area of home or furnishings design. Elective for Art Education juniors and seniors. Prerequisite: Art 475. *Four hours per week. Each semester. Credit: two semester hours.*

ART 477. STUDIO IN TEXTILE AND CLOTHING DESIGN II—Advanced study of textile designing for hand and machine processes of weaving, block printing, silk screening; custom textile designing for specific settings in home, school, business and theatre; creative and expressive compositions using

textile fabrication techniques; design of personal dress, uniforms and costumes for stage presentations. Elective for Art Education juniors and seniors. Prerequisite: Art 365. *Four hours per week. Each semester. Credit: two semester hours.*

ART 478. STUDIO IN TEXTILE AND CLOTHING DESIGN III—Concentration on an individually selected project or area of design in textile or clothing. Elective for Art Education juniors and seniors. Prerequisite: Art 477. *Four hours per week. Each semester. Credit: two semester hours.*

ART 479. STUDIO IN THEATRE DESIGN II—Advanced study of design for the dramatic arts; scenery, costume, makeup, lighting and allied stage crafts; design and construction of puppets and puppet production settings; experiments in designing with light, motion and scenery construction. Elective for Art Education juniors and seniors. Prerequisite: Art 458. *Four hours per week. Each semester. Credit: two semester hours.*

ART 480. STUDIO IN THEATRE DESIGN III—Individually selected advanced stage production project calling for a major responsibility in scenery design, lighting, costuming, or over-all technical stage direction of a college or college supervised community production. Elective for Art Education juniors and seniors. Prerequisite: Art 479. *Four hours per week. Each semester. Credit: two semester hours.*

ART 481. STUDIO IN POTTERY AND CERAMIC SCULPTURE II—Advanced study of design and expression through the clay medium; exploration of ceramic media in object design, mosaics, and inserts in object design and architecture; processes in building up and firing ceramic sculpture; advanced study of body and glaze composition, kilns and firing. Elective for Art Education juniors and seniors. Prerequisite: Art 460 or I.A. 406. *Four hours per week. Each semester. Credit: two semester hours.*

ART 482. STUDIO IN POTTERY AND CERAMIC SCULPTURE III—Concentration on an individually selected project or area of ceramic design. Elective for Art Education juniors and seniors. Prerequisite: Art 481. *Four hours per week. Each semester. Credit: two semester hours.*

GRADUATE COURSES IN ART EDUCATION

ART. 501. WORKSHOP IN ART EDUCATION MATERIALS, PROCESSES, AND PROCEDURES—Analysis and experiment with materials and processes significant to community, school, and group activities. *Spring semester. Credit: three semester hours.*

ART 504. SEMINAR IN ART IN HUMAN AFFAIRS—Art activity as a dynamic force in the life of an individual and society; psychology of creative activities; creative activity as a way of clarifying thought, attaining

control of emotions, propagating individual and group attitudes, beliefs, ceremonies, and practices. *Fall semester. Credit: three semester hours.*

ART 505. SEMINAR IN ART EDUCATION—Problems and projects in teaching and supervising art in various types of communities and schools; contemporary philosophy, psychology, principles, and practices in art and general education; research and scientific methods in determining programs, policies, and procedures for the art teacher and supervisor. Required of all Art Education majors. Prerequisite: one or more years of teaching. *Spring semester. Credit: three semester hours.*

ART 506. SEMINAR IN HISTORY OF ART—CONTEMPORARY MOVEMENTS IN ART—Trends in the arts of painting, sculpture, graphic arts, architecture, industrial art, commercial art, and crafts, related to developments in music, drama, and literature; lectures, readings, experiments and demonstrations; visits to galleries, studios, and plays. *Summer session 1958. Credit: three semester hours.*

ART 507. GRADUATE STUDIO IN DRAWING, PAINTING—Individual activities with a variety of drawing and painting media determined for each individual according to his background and needs; studio and outdoor problems, field and gallery trips. *Spring semester. Credit: two or three semester hours.*

ART 508. GRADUATE STUDIO IN DESIGN AND SPATIAL ORGANIZATION—Individualized designing with paint and materials; specialization may be in home planning and furnishing, costume, textile, stage, commercial or industrial design. *Fall semester. Credit: two or three semester hours.*

ART 509. GRADUATE STUDIO IN CRAFTS—Individualized work in textiles, jewelry, leather, woodcarving, sculpture, plastics, pottery, and metal. *Summer session 1958. Credit: two or three semester hours.*

ART 510. GRADUATE STUDIO IN PHOTOGRAPHY—Photographic processes; black-and-white and color photography as a form of expression, as commercial art, as a form of recording, and as used in the making of teaching aids and publications. *Summer session 1958. Fall semester. Credit: three semester hours.*

ART 511. ART IN THE ELEMENTARY CURRICULUM—The use of art materials, processes, and procedures in the elementary school; developing creative and expressive activities of children. *Summer session 1958. Credit: three semester hours.*

ART 512. GRADUATE STUDIO IN SCULPTURE—Sculpture as a means of individual and group expression; theory and processes using media such as wood, stone, plaster, cement block and metal. *Summer session 1958. Credit: two or three semester hours.*

ART 513. GRADUATE STUDIO IN GRAPHIC ARTS—Individualized work in lithography, wood engraving, etching, serigraphy, dry point, engraving. *Summer session 1958. Credit: two or three semester hours.*

ART 515. GRADUATE STUDIO IN COMMUNITY AND HOME PLANNING—Functional, aesthetic, geographic, economic, social and political factors affecting design of home, school and community; designing and re-designing homes, special facilities, communities. *Summer session 1958. Credit: three semester hours.*

ART 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to the directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

ART 526. SPECIAL PROJECT—Research along a particular line of one's specialization. *Each semester. Credit: one or two semester hours.*

ART 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department. *Summer session 1958. Each semester. Credit: two or three semester hours.*

Arts and Sciences Division

Katheryne Thomas Whittemore, Director

Faculty members and course descriptions are listed under each of the following departments which comprise this division:

English Department
Foreign Languages Department
Geography Department
Health and Physical Education Department
Mathematics Department
Music Department
Science Department
Social Studies Department

ENGLISH DEPARTMENT

Fraser B. Drew, Chairman

Professors *Bradford, Cochnower, Fried, Ganey, Goossen, Gragg, W. B. Greenwood, Gronewold*; Associate Professors *Grabau, McRae, Schuck, Sherwin, Smith*; Assistant Professors *R. Y. Greenwood, Jensen, Klomp, Norenberg*, Piquette, Rose, Trueblood*.

EXTENSION OF ELEMENTARY EDUCATION CERTIFICATE TO INCLUDE THE TEACHING OF ENGLISH IN EARLY SECONDARY GRADES

Students may qualify for the extended certificate to teach English in the early secondary grades by taking the four-year English sequence as indicated in the program which is outlined below.

FIRST YEAR

Eng. 101. English Composition (Fall or Spring semester)
Eng. 102. Fundamentals of Speech (Fall or Spring semester)

* On leave.

SECOND YEAR

Eng. 201. Advanced Composition (Fall semester)
Eng. 204. English Literature (Spring semester)
Eng. 213. Junior High School Literature (Fall or Spring semester)
Elective by advisement (Fall or Spring semester)

THIRD YEAR

JUNIOR TEACHING SECTION

Eng. 306. Advanced Speech (Fall semester)
El. Ed. 315. The Child and the Curriculum III. (Fall semester)
Ed. 316. Teaching English in the Early Secondary School (Fall semester)
El. Ed. 470. Practicum in Elementary School Teaching (Spring semester)
Ed. 471. Practicum in the Teaching of English in the Early Secondary School (Spring semester)

SENIOR TEACHING SECTION

Eng. 304. American Literature (Fall semester)
Eng. 301. Play Direction (Fall semester)
or
Eng. 420. Oral Interpretation of Literature (Fall semester)
Eng. 306. Advanced Speech (Fall semester)
Elective by advisement (Fall semester)
El. Ed. 315. The Child and the Curriculum III. (Spring semester)
Ed. 316. Teaching English in the Early Secondary School (Spring semester)

FOURTH YEAR

JUNIOR TEACHING SECTION

Eng. 402. Contemporary Literature (Fall semester)
Eng. 304. American Literature (Spring semester)
Eng. 301. Play Direction (Spring semester)
or
Eng. 420. Oral Interpretation of Literature (Spring semester)
Elective by advisement (Spring semester)

SENIOR TEACHING SECTION

Eng. 402. Contemporary Literature (Spring semester)
El. Ed. 470. Practicum in Elementary School Teaching (Fall semester)
Ed. 471. Practicum in the Teaching of English in the Secondary School (Fall semester)

FIRST SUMMER SESSION AFTER GRADUATION

Eng.—Graduate course in English by advisement.

ENG. 201. ADVANCED COMPOSITION—Usage and the art of writing; practice with short and long papers; readings in contemporary prose.

Required of Home Economics sophomores. Required of Elementary Education sophomores except students who receive a grade of A or B in Eng. 101 (who may substitute an English elective). *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 202. PUBLIC SPEAKING—Organization, delivery, and evaluation of the public speech; practice with discussion techniques. Required of Home Economics and Industrial Arts sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 203. MODERN DRAMA—Chief modern dramatists of Continental Europe, England, and America from Ibsen to the present time. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 204. ENGLISH LITERATURE—English prose and poetry from the Middle Ages to the present time. Required of Elementary Education sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 205. GENERAL LITERATURE—Literary masterpieces of Western civilization: English and American poetry and prose; translations from the Greek, Latin, French, German, and Russian. Required of Art Education sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 210. CHILDREN'S LITERATURE—Types of children's literature: folklore, modern informative material, fiction, biography, and poetry; principles of book selection; illustrations, format of books; reading interests of children; story telling; bibliography. Elective for sophomores, juniors, and seniors. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 213. JUNIOR HIGH SCHOOL LITERATURE—Literature appropriate to grades 7-9: fiction, biography, informative material, folklore; criteria of book selection; bibliography. Required of students seeking extension of certification to include teaching of English on early secondary level. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 220. CREATIVE WRITING—Individual writing projects to suit interests and abilities of students. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 250. TYPES OF BRITISH AND AMERICAN LITERATURE I—Poems and plays in English; readings, analysis and criticism, history. Required of Elementary Education sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 301. PLAY PRODUCTION—Play selection and analysis; casting; rehearsals; student productions. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 304. AMERICAN LITERATURE—Major writers and literary movements of the United States from the Colonial Period to recent times. Required of Elementary Education and Industrial Arts juniors. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 306. ADVANCED SPEECH—Informative talks; individual and group reading of poetry; story-telling. Required of all Elementary Education juniors except students who receive a grade of A or B in Eng. 102 (who may substitute an English elective). *Three hours per week. Each semester. Credit: three semester hours.*

Note: Students must have a grade of C or higher in this course as a prerequisite for Ed. 401 and Ed. 401C.

ENG. 307. THE 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. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 309. PUBLIC DISCUSSION—Group discussion, including debate; parliamentary procedure; panel presentations; interview techniques; oral reports. Elective for juniors and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 315. SEVENTEENTH CENTURY POETRY—Lyric and dramatic poetry: Shakespeare, Donne, Herrick, Jonson, Milton, and others. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

ENG. 331. MODERN BRITISH AND AMERICAN POETRY—Major poets and the more significant tendencies in poetry from 1912 to the present time. Elective for juniors and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 334. THE WORLD NOVEL—Major figures in the development of the novel during the past three centuries: Fielding, Balzac, Flaubert, Dostoevski, Tolstoi, the Brontës, Hardy, Hawthorne, and James. Elective for juniors and seniors. *Three hours per week. Credit: three semester hours.*

ENG. 335. THE AMERICAN NOVEL BEFORE 1900—Cooper, Hawthorne, Melville, Clemens, James, and Howells. Elective for juniors and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 336. CHAUCER AND HIS AGE—Representative works of Chaucer; supplemental readings in the early drama, romance, and popular ballads. Elective for juniors and seniors. *Three hours per week. Credit: three semester hours.*

ENG. 345. RADIO AND TELEVISION IN EDUCATION—Broadcasting and its history; program evaluation; recordings; radio and television in the classroom; tours of broadcasting facilities; research paper. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 348. CREATIVE DRAMATICS—History, philosophy, methods, and materials of informal playmaking with children; observation and participation. Elective for juniors and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 401. SURVEY OF DRAMA—Representative playwrights of Western European culture: Sophocles, Plautus, Jonson, Moliere, de Vega, Sheridan, Chekhov, Ibsen, Shaw, and O'Neill. Elective for juniors and seniors. *Three hours per week. Credit: three semester hours.*

ENG. 402. CONTEMPORARY LITERATURE—British and American literature of the twentieth century; poetry, fiction, drama. Required of Elementary Education seniors. *Three hours per week. Each semester. Credit: three semester hours.*

ENG. 406. THE ENGLISH NOVEL—Great English novels of the nineteenth century as art and as a manifestation of social interests. Elective for juniors and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 407. ROMANTIC MOVEMENT—Romantic poetry and prose: Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the period. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 408. SHORT STORY—Development of the short story; Hawthorne, Poe, Bierce, Steele, Glaspell, Lardner, O. Henry, Hemingway, and others. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 415. SHAKESPEARE I—Representative comedies and tragedies. Elective for juniors and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 416. SHAKESPEARE II—A similar study of another group of plays. Elective for juniors and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 420. ORAL INTERPRETATION OF LITERATURE—Oral reading of prose, poetry, and drama; selection and arrangement of material for formal and informal audiences. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 422. VICTORIAN POETRY—Tennyson, Browning, Arnold, and others; relation to social, political, and scientific developments of the age. Elective for juniors and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 423. VICTORIAN PROSE—Carlyle, Macaulay, Newman, Mill, Ruskin, Arnold, Huxley, and Pater. Elective for juniors and seniors. *Three hours per week. Credit: three semester hours.*

ENG. 425. JOURNALISM—News, feature, and editorial writing; copy reading; make-up; advertising; public relations; elementary school journalism. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

ENG. 431. MILTON—Prose and poetry of Milton, with emphasis on *Paradise Lost*. Elective for juniors and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

ENG. 445. PHILOSOPHY IN LITERATURE—Major philosophic viewpoints in general literature; literary masterpieces with strong philosophic import. Elective for juniors and seniors. *Three hours per week. Credit: three semester hours.*

ENG. 451. TYPES OF BRITISH AND AMERICAN LITERATURE II—Essays, biographies, and fiction in English; readings, analysis and criticism, history. Required of Elementary Education seniors. *Three hours per week. Each semester. Credit: three semester hours.*

GRADUATE COURSES IN ENGLISH

ENG. 502. STUDIES IN AMERICAN LITERATURE—Literary culture in America from the Colonial Period to the present; religious and political influences upon early writings; the Romantic Movement and Transcendentalism; realism and regional literature. *Fall semester. Credit: three semester hours.*

ENG. 507. THE MODERN NOVEL—Outstanding American and English twentieth century novels, their social and artistic significance. *Fall semester. Credit: two semester hours.*

ENG. 511B. STUDIES IN THE PROSE OF THE VICTORIAN PERIOD—Major Victorian essayists with reference to the intellectual background of nineteenth-century England: Carlyle, Newman, Macaulay, J. S. Mill, Ruskin, and Arnold. *Spring semester. Credit: two semester hours.*

ENG. 515. PHILOSOPHIC ASPECTS OF LITERATURE—Major movements in English and American literature from the perspective of philosophy; literature as a source of ideas; the representation of social, political, religious, and ethical ideals in poetry, fiction, and drama. *Spring semester. Credit: three semester hours.*

ENG. 519. LITERATURE AND THE WORLD TODAY—Current ideas expressed through novels, plays, and critical reports; contribution of the magazine, newspaper, and motion picture to the world's view of America. *Spring semester. Credit: two semester hours.*

ENG. 520. SHAKESPEARIAN TRAGEDY—Esthetic and philosophic qualities of Shakespearean tragedy studied in the playwright's mature plays: *Hamlet, Othello, Lear, Macbeth*; readings in Shakespeare criticism. *Summer session 1958. Credit: three semester hours.*

ENG. 522. STUDIES IN MODERN AMERICAN POETRY—Significant trends and figures in American poetry since 1912; emphasis upon the work of two writers from the following group: Robinson, Frost, Millay, Eliot, Crane, Benet, and Jeffers. *Summer session 1958. Credit: three semester hours.*

ENG. 523. SHAKESPEAREAN COMEDY—Principal comedies from *Love's Labour's Lost* to *The Tempest*; backgrounds of Elizabethan comedy; Shakespeare's early and experimental work; later mature achievements with the comic idea in farce, high comedy, bitter comedy, drama, and idealistic romance. *Fall semester. Credit: two semester hours.*

ENG. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

ENG. 527. EARLY SECONDARY SCHOOL LITERATURE—Readings in prose and poetry appropriate to the early secondary grades; analysis of selected literary works; examination of the function of "literature for adolescents" in the early secondary English program. *Summer session 1958. Credit: three semester hours.*

ENG. 550. PROJECT—Study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department. *Summer session 1958 and each semester. Credit: two or three semester hours.*

FOREIGN LANGUAGE DEPARTMENT

Charles A. Messner, Chairman

Assistant Professor Simonette.

All courses in the department are open as electives to qualified students of all divisions.

Students who enter the Elementary Education division with at least two years of credit in a foreign language in high school are encouraged to prepare to teach the language in the elementary grades. They may elect a sequence of courses in the language, starting with their freshman year. Courses numbered 101, 102, 201, and 202 are open to freshmen.

I GENERAL LANGUAGE

GEN.LANG. 201. FOUNDATIONS OF LANGUAGE—Topics treating language and languages: theories of the origin of speech; types and families of language; speech sounds; alphabets and writing; word formation and changes in meaning; basic principles of grammar; brief history of the English language; language in its psychological and sociological relationships. No prerequisite. *Each semester. Credit: three semester hours.*

II FRENCH

FR. 101, 102. ELEMENTARY FRENCH—Fundamentals of the French language; pronunciation, principles of grammar, easy reading; increased emphasis during the second semester on speaking and writing French. For students with no previous knowledge of French. *Three hours per week. Each semester. Credit: six semester hours.*

FR. 201, 202. INTERMEDIATE FRENCH—Reading of short stories, longer prose narrative, plays and selected poems; grammar review and composition. Prerequisite: at least two years of high school French or completion of Fr. 101, 102. *Three hours per week. Each semester. Credit: six semester hours.*

FR. 301. MASTERPIECES OF FRENCH LITERATURE—Reading of selected masterpieces from all periods of French literature. Prerequisite: Fr. 201 and 202. *Credit: three semester hours.*

FR. 302. FRENCH CIVILIZATION—Contributions of France to present-day civilization; chief aspects of contemporary French life. Prerequisite: Fr. 201 and 202. *Credit: three semester hours.*

FR. 402. FRENCH COMPOSITION AND CONVERSATION—Daily practice in writing and speaking French. Prerequisites: Fr. 201 and 202. *Credit: three semester hours.*

III SPANISH

SP. 101-102. ELEMENTARY SPANISH—Grammar, composition and conversation, reading of elementary texts. For students with no previous knowledge of Spanish. *Three hours per week. Each semester. Credit: six semester hours.*

SP. 201, 202. INTERMEDIATE SPANISH—Reading of modern Spanish and Spanish-American authors in the fields of the novel, short story and drama; vocabulary study. Prerequisite: at least two years of high-school Spanish or completion of Sp. 101-102. *Three hours per week. Each semester. Credit: six semester hours.*

SP. 301. SPANISH CONVERSATION AND COMPOSITION—Exercises to facilitate comprehension and fluent self-expression; emphasis on Spanish and Spanish-American spoken idiom, syntax and vocabulary; use of recording aids. Prerequisite: Sp. 201. *Credit: three semester hours.*

SP. 302. MODERN SPANISH MASTERPIECES—Representative genres of recent Spanish literature: the novel, drama, literary criticism and modern poetry. Prerequisite: Sp. 201. *Credit: three semester hours.*

SP. 305. HISPANIC CIVILIZATION—A survey of Hispanic civilization from its beginnings in the Iberian Peninsula to its spread in the Western Hemisphere, the Spanish possessions in Africa and in the Philippines; emphasis on the artistic and intellectual currents in Spain and Latin America. Prerequisite: Spanish 201. *Three hours per week. Each year. Credit: Three semester hours.*

IV GERMAN

GER. 101, 102. ELEMENTARY GERMAN—Fundamentals of the German language; pronunciation, principles of grammar, easy reading; increased emphasis during the second semester on writing and speaking German. For students with no previous knowledge of German. *Three hours per week. Each semester. Credit: six semester hours.*

GER. 201, 202. INTERMEDIATE GERMAN—Reading of short stories, longer prose narrative and modern plays; grammar review, composition and conversation. Prerequisite: at least two years of high school German or completion of Ger. 101, 102. *Three hours per week. Each semester. Credit: six semester hours.*

V LATIN

LAT. 101-102. ELEMENTARY LATIN—Fundamentals of the Latin language; essentials of grammar; reading of simple prose selections; relation of Latin to English and the modern languages. For students with no previous knowledge of Latin. *Three hours per week. Each semester. Credit: six semester hours.*

LAT. 201, 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. Prerequisite: at least two years of high school Latin. *Three hours per week. Each semester. Credit: six semester hours.*

LAT. 301. SILVER AGE PROSE—Reading of selections from representative authors of the post-Augustan period. Prerequisite: Lat. 201-202. Given on demand. *Credit: three semester hours.*

LAT. 302. HORACE—Reading of selections from the odes, epodes, satires and epistles. Prerequisite: Lat. 201-202. Given on demand. *Credit: three semester hours.*

VI RUSSIAN

RUS. 101-102. ELEMENTARY RUSSIAN—Pronunciation; essentials of grammar; vocabulary building; composition; reading of easy selections in Russian prose; introduction to scientific literature. No prerequisite. *Three hours per week. Each semester. Credit: six semester hours.*

GEOGRAPHY DEPARTMENT

Robert T. Redden, Chairman

Associate Professor Prudhomme; Assistant Professor Laux.

GEOG. 301. GENERAL GEOGRAPHY I—First half of world geography: the low latitudes, the high latitudes, the arid and semi-arid regions of intermediate latitudes; physical environment, cultural and economic geography of each area; interpretation of maps. Required of Elementary Education juniors. *Three hours per week. Each semester. Credit: three semester hours.*

GEOG. 302. GEOGRAPHY OF NORTH AMERICA—Landforms and climates; land-use regions: distribution of resources; changing pattern of land use; industrial development. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

GEOG. 402. GENERAL GEOGRAPHY II—Second half of world geography; regions of intermediate latitudes: physical backgrounds; mining, manufacturing, trade, transportation and agriculture; interdependence of regions; distribution of world population. Required of Elementary Education seniors. Prerequisite: Geog. 301. *Three hours per week. Each semester. Credit: three semester hours.*

GEOG. 403. GEOGRAPHY OF EUROPE—Physiographic regions and related human use regions; conflict between these and man-made political divisions as part of the geographic background of current events. Elective for sophomores, juniors and seniors. *Three hours per week. Credit: three semester hours.*

GEOG. 405. GEOGRAPHY OF ASIA—Regional divisions; landforms, climate, and natural resources; cultural and economic geography; social and political problems related to physical environment and industrial development. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

GEOG. 406. GEOGRAPHY OF NEW YORK STATE—Landform regions, climates, 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. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

GEOG. 407. CONSERVATION OF NATURAL RESOURCES—Depletion of resources: soil, water, wildlife, minerals, forests, and grasslands; wise use of resources; conservation programs in the United States. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

GRADUATE COURSES IN GEOGRAPHY

GEOG. 503. STUDIES IN RESOURCE CONSERVATION—Principles of conservation of natural resources; selected problems such as soil erosion in Western New York, pollution on the Erie-Niagara Watershed, Great Lakes fisheries, flood control and stream improvement, management of farm woodlands, the New York State Forest Preserve, recreational resources and wildlife management programs in Western New York. *Spring semester. Credit: two semester hours.*

GEOG. 504. STUDIES IN THE GEOGRAPHY OF NORTH AMERICA—Utilization of mineral, water, and forest resources; geography of agriculture, manufacturing, transportation, recreation, hemisphere defense, power production; selected topics pertaining to recent changes and current developments. *Summer session 1957. Credit: three semester hours.*

GEOG. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

GEOG. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

Lloyd M. Jones, Chairman

Associate Professors Adessa, Coyer, Roach; Assistant Professors LaRocque, Katzman, Provenzano, Spaulding.

P.ED. 101 AND 102. PHYSICAL EDUCATION ACTIVITIES—Women's activities such as archery, badminton, basketball, deck tennis, body mechanics, dancing (modern, folk, and square), softball, shuffleboard, swimming (life-saving, diving, and synchronized for advanced swimmers), and volleyball. Men's activities such as badminton, basketball, games of low organization, golf, square dancing, paddle tennis, swimming (life-saving, and diving for advanced swimmers), tennis, and volleyball. Basic fundamentals in all individual and team activities. Required for Elementary Education, Home Economics and Art Education freshmen and Industrial Arts sophomores; optional for advanced students. *Two hours per week; one hour swimming, one hour gymnasium. Each semester. Credit: two semester hours.*

H.ED. 201. HEALTH EDUCATION—Personal hygiene, nutrition, respiration, circulation, excretion, grooming, vision, hearing, mental health, communicable diseases and safety. Required of Art Education freshmen. *Two hours per week. Each semester. Credit: two semester hours.*

H.ED. 203. HEALTH EDUCATION—Personal hygiene, mental health, respiration, nutrition, excretion, grooming, vision, hearing, communicable disease and safety; anatomical and physiological aspects of competitive sports such as cross-country, soccer, basketball, swimming, tennis, track and field and baseball. Elective for Industrial Arts men. *Three hours per week. Each semester. Credit: three semester hours.*

H.ED. 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. Required of Elementary Education juniors. *Two hours per week. Each semester. Credit: two semester hours.*

P.ED. 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. Elective for sophomores, juniors and seniors. Prerequisites: P.Ed. 101 and 102 and consent of instructor. *Three hours per week. Each semester. Credit: three semester hours.*

P.ED. 301. PHYSICAL EDUCATION—Principles of physical education; physical education in the elementary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and class-room games; selection of activities; safety in physical education. Required of Elementary Education juniors. Prerequisite: P.Ed. 101 and 102. *Three hours per week. Each semester. Credit: two semester hours.*

P.ED. 303. COACHING I—Coaching of Cross Country, Track and Field, Soccer, and Swimming. Special methods and techniques for coaching, officiating and conducting soccer matches and meets in cross country, track and field and swimming. Emphasis given individual fundamental techniques, team strategy, practice plans, contemporary systems, and treatment of injuries. Elective for men. Sophomore standing and consent of instructor. *Three hours per week. First semester. Credit: three semester hours.*

P.ED. 304. COACHING II—Coaching of basketball, baseball, golf and tennis. Special methods and techniques for coaching, officiating and conducting games in basketball and baseball, and matches in golf and tennis. Emphasis given individual fundamental techniques, team strategy, practice plans, contemporary systems, and treatment of injuries. Elective for men. Sophomore standing and consent of instructor. *Three hours per week. Second semester. Credit: three semester hours.*

P.ED. 305. ADVANCED THEORY IN WOMEN'S SPORTS I—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. Elective for women. Sophomore standing and consent of instructor. *Three hours per week. First semester. Credit: three semester hours.*

P.ED. 306. ADVANCED THEORY IN WOMEN'S SPORTS II—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. Elective for women. Sophomore standing and consent of instructor. *Three hours per week. Second semester. Credit: three semester hours.*

H.ED. 402. HEALTH PROTECTION—School and community health problems; school health service; communicable disease control; water supply and sewage disposal; food sanitation; safety education. Prerequisite: H.Ed. 201. *Two hours per week. Each semester. Credit: two semester hours.*

MATHEMATICS DEPARTMENT

Reuben S. Ebert, Chairman

Professor Rodney; Associate Professors Cherkauer, Hilaire.

EXTENSION OF ELEMENTARY EDUCATION CERTIFICATE TO INCLUDE THE TEACHING OF MATHEMATICS IN THE EARLY SECONDARY SCHOOL

Students who elect to extend certification to teach mathematics in the early secondary school should follow one of the sequences indicated below.

SECOND YEAR

- Math. 210. (Fall Semester)
- Math. 201. (Fall Semester)
- Math. 202. (Spring Semester)
- Math. 301. (Spring Semester)

THIRD YEAR

JUNIOR TEACHING SECTION

- El. Ed. 315. The Child and the Curriculum III (Fall Semester)
- Ed. 317. Teaching Mathematics in the Early Secondary School (Fall Semester)
- El. Ed. 470. Practicum in Elementary School Teaching (Spring Semester)
- Ed. 472. Practicum in the Teaching of Mathematics in the Early Secondary School (Spring Semester)

SENIOR TEACHING SECTION

- El. Ed. 315. The Child and the Curriculum III (Spring Semester)
- Ed. 317. Teaching Mathematics in the Early Secondary School (Spring Semester)
- Math. 403. (Fall Semester)
- Math. 404. (Spring Semester)

FOURTH YEAR

JUNIOR TEACHING SECTION

- Math. 403. (Fall Semester)
- Math. 404. (Spring Semester)

SENIOR TEACHING SECTION

- El. Ed. 470. Practicum in Elementary School Teaching (Fall Semester)
- Ed. 472. Practicum in the Teaching of Mathematics in the Early Secondary School (Fall Semester)

MATH. 101. GENERAL MATHEMATICS—The number system and its development; operations and their relationships; measurement and approximation; formulas; equations; graphs; the way of geometry and proof; problem solving; mathematics as a useful growing science. Required of Elementary Education freshmen. *Three hours per week. Each semester. Credit: three semester hours.*

MATH. 102. GENERAL MATHEMATICS—Number; processes; formulas; equations; graphs; functionality; exponents; radicals; precision and accuracy in measurement; applications and problems. Required of Industrial Arts freshmen. *Three hours per week. Fall semester. Credit: three semester hours.*

MATH. 104. APPLIED MATHEMATICS—Problems allied 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. Required of Industrial Arts freshmen. Prerequisite: Math. 102. *Three hours per week. Spring semester. Credit: three semester hours.*

MATH. 105. APPLIED MATHEMATICS I—Vocabulary, concepts, principles, operation, and relationships; exponents and radicals; formulas, linear and quadratic equations; functions and functional relationships; ratio, proportion, and variation; applications and problems. Required of Industrial Arts freshmen. Prerequisite: General Education 103. *Two hours per week. Spring semester. Credit: two semester hours.*

MATH. 205. APPLIED MATHEMATICS II—Geometric principles and analyses; the metric system; trigonometric functions; logarithms; slide rule; graphic representation; analysis; applications and problems. Required of Industrial Arts sophomores. Prerequisite: General Education 103 and Applied Mathematics I. *Two hours per week. Each semester. Credit: two semester hours.*

MATH. 201. COLLEGE ALGEBRA—Functionality; equations; graphs; variation; progressions; complex numbers; mathematical induction; theory of equations; logarithms; permutations; combinations; probability; determinants; series. Elective for sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

MATH. 202. PLANE TRIGONOMETRY—Functions of acute angles; solution of right triangles; application of logarithms; functions of the general angle; oblique triangles; identities; inverse functions; graphs of the functions; trigonometric equations; DeMoivre's Theorem, miscellaneous problems. Elective for sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

MATH. 210. ELEMENTS OF MATHEMATICS—Reasoning and proof in mathematics; elements of set theory; practical measurement; bases of number

systems; algebraic representation and operation; linear equations in one variable; quadratic equations; sets of equations; graphic representation; algebraic and trigonometric functions; slope as a limit concept; problem analysis and solution; mathematics and civilization. Required of Elementary Education sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

MATH. 301. PLANE ANALYTIC GEOMETRY—Algebraic geometry of the straight line, circle, parabola, ellipse, and hyperbola; general equation of the second degree; translation and rotation of axes; general loci; rectangular and polar coordinates. Elective for sophomores and juniors. Prerequisites: College Algebra and Plane Trigonometry. *Three hours per week. Spring semester. Credit: three semester hours.*

MATH. 303. MATHEMATICS IN THE ELEMENTARY GRADES—History of number and processes; relationships; generalizations; meanings; measurement; problem solving; professional literature and research; development of a philosophy of teaching mathematics; analysis of arithmetic textbooks; visual aids and techniques. Elective for juniors and seniors. Prerequisite: Math. 101 or its equivalent. *Three hours per week. Each semester. Credit: three semester hours.*

MATH. 403. DIFFERENTIAL CALCULUS—Variables; functions; limits; the derivative and its meaning, differentiation of algebraic and transcendental functions; maxima and minima; successive differentiation; differentials; partial derivatives; applications and problems. Elective for juniors and seniors. Prerequisites: College Algebra, Plane Trigonometry, and Plane Analytics. *Three hours per week. Fall semester. Credit: three semester hours.*

MATH. 404. INTEGRAL CALCULUS—Integration as the inverse of differentiation; rules for integrating standard elementary forms; constant of integration; the definite integral; integration as a process of summation; substitutions and devices for formal integration; multiple integrals; geometric and physical applications and problems. Elective for juniors and seniors. Prerequisites: College Algebra, Plane Trigonometry, Plane Analytics, and Differential Calculus. *Three hours per week. Spring semester. Credit: three semester hours.*

GRADUATE COURSES IN MATHEMATICS

MATH. 500. MATHEMATICS IN THE ELEMENTARY CURRICULUM—Development of number; rationale of processes; relationships, generalizations; meaning and significance of number and processes; mathematics as a language; measurement; problem solving; visual aids; professional literature; analyses and reports of readings; individual research and project. *Summer session 1958, fall semester. Credit: two or three semester hours.*

MATH. 504. MATHEMATICS OF FINANCE—Theory and application of formulas; simple and compound interest; annuities; amortization and sinking funds; depreciation; bonds; life annuities and life insurance; related problems. *Summer 1958. Credit: three semester hours.*

MATH. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

MATH. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department. *Credit: two semester hours.*

MUSIC DEPARTMENT

Silas L. Boyd, Chairman

Professor Wincenc; Associate Professors English, Hoffer, Tallmadge; Assistant Professors Bailey, Homer.

MUS. 101-102. ESSENTIALS OF MUSIC—Elements of music: rhythm, melody, and harmonic; sight-singing; ear training; writing; playing; required attendance at subscription concerts by Buffalo Philharmonic Orchestra in Kleinhans Music Hall. Required of Elementary Education Freshmen. *Three hours per week. Each semester. Credit: four semester hours.*

MUS. 110. MUSIC IN LIVING—General study of the nature and development of latent abilities in singing; playing instruments; rhythmic response; recordings, sound films, music scores; attendance at local concerts. Required of Art students. *Four hours per week. One semester. Credit: three semester hours.*

MUS. 200. FOLK MUSIC IN AMERICA—Folk music of the dominant nationality groups in America: British Isles, Scandinavia, Western and Eastern Europe, Asia, South America and Mexico; folk music developed in America: the colonies, the frontier, the pioneer, the Indian, the cowboy and the Negro, the sailor and the lumberman. Elective for sophomores, juniors and seniors. *Three hours per week. Fall semester. Credit: three semester hours.*

MUS. 201. AFRO-AMERICAN MUSIC—Spirituals, minstrelsy, ragtime, blues, jazz, popular music, traditional music, Negro music in Latin America; relationships with African musical practice. Elective for sophomores,

juniors and seniors. *Three hours per week. Spring semester. Credit: three semester hours.*

MUS. 212. REMEDIAL PIANO CLASS—For beginners recommended by faculty, to aid the student complete requirements of Mus. 101-102.

MUS. 303. VOICE CULTURE AND REPERTORY—Diction; breath control; tone coloring, voice problems; program making. Elective for sophomores, juniors, and seniors. *Three hours per week. Each semester. Credit: three semester hours.*

MUS. 304. MUSIC FOR CHILDREN I—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. Elective for sophomores, juniors and seniors. *Three hours per week. Each semester. Credit: three semester hours.*

MUS. 305. MUSIC FOR CHILDREN II—Music experiences for intermediate grades; activities: unison and part singing, folk dances, rhythms, listening, creating, playing instruments, music reading; enrichment to other areas of elementary school curriculum; broad use of all types of materials and equipment. Elective for sophomores, juniors, and seniors. *Three hours per week. Each semester. Credit: three semester hours.*

MUS. 306. *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; arrangements with conductor at registration. Elective for all students. *Two hours per week, one hour sectional rehearsals for strings, woodwinds and brass. Credit: one semester hour.*

MUS. 307. *WOMEN'S GLEE CLUB—Membership selected at beginning of each semester; performances; convocations, Christmas and spring programs, community and campus programs. Elective for women students. *Two hours per week. Credit: one semester hour.*

MUS. 308. *BAND—Seventy-five piece uniformed band; appearances include convocations, spring concert, moving-up-day, civic parades, and off-campus concerts; college-owned instruments available; arrangements with conductor at registration. Elective for all students. *Two hours per week. Credit: one semester hour.*

MUS. 309-310. HARMONY—Elements of Music, melody, harmony and rhythm, practice in sight-singing, melodic and harmonic dictation, transportation, keyboard training and four-part written harmony. Prerequisite:

* Total credit earned from participation in above applied music courses may not exceed eight hours toward graduation. (One semester hour of credit maximum in any one semester for each participation.)

Mus. 101-102 or special permission. Elective for sophomores, juniors, and seniors. *Three hours per week. Two semesters. Credit: six semester hours.*

MUS. 311. CONDUCTING—Choral and orchestral conducting; use of the baton; reading and observation; required attendance at subscription concerts by the Buffalo Philharmonic Orchestra at Kleinhans Music Hall. Elective for sophomores, juniors, and seniors. *Three hours per week. One semester. Credit: three semester hours.*

MUS. 312. *A CAPPELLA CHOIR—Local concerts, pop concert with Buffalo Philharmonic Orchestra, Choir tour, Commencement Exercises. (Students selected through an examination emphasizing intonation, tone quality and musical ability.) *Three hours per week. Credit: one semester hour.*

MUS. 313. *MEN'S GLEE CLUB—Participation in college and off-campus functions. (Members selected by audition.) *Two hours per week. Credit: one semester hour.*

MUS. 403. DRAMATIC MUSIC—Dramatic works of music for choral organization: the cantata, oratorio and opera; history and development of these forms; attendance at local churches and auditoriums; representative works to be heard from records or actual performances; special readings and discussions of radio operatic presentations. Elective for sophomores, juniors, and seniors. *Three hours per week. One semester. Credit: three semester hours.*

MUS. 404. THE ART OF ENJOYING MUSIC—The symphony orchestra; the understanding and enjoyment of the masterpieces of Classic, Romantic and Contemporary composers; required attendance at subscription concerts by the Buffalo Philharmonic Orchestra in Kleinhans Music Hall. Elective for sophomores, juniors, and seniors. *Three hours per week. Each semester. Credit: three semester hours.*

GRADUATE COURSES IN MUSIC

MUS. 500. MUSIC IN EDUCATION—Public school music education; contributions of various composers and music educators to public school music and to general culture; required readings; listening to records; ideas on school assemblies. *Summer session 1957. Three hours per week. Credit: three semester hours.*

NON CREDIT ACTIVITIES

The Music Department sponsors a wide variety of musical organizations for students including Madrigal Singers, Women's Sextette, Male Quartet, String Quartet, Brass Ensemble, Majorettes, Gunnerettes, Drillettes, and Pep

* Total credit earned from participation in above applied music courses may not exceed eight hours toward graduation. (One semester hour of credit maximum in any one semester for each participation.)

Band. The city of Buffalo affords many musically enriching programs by the Grosvenor Library, the Science Museum and churches as well as the performances of the Buffalo Philharmonic Orchestra, the Buffalo Chamber Music Society, the Zorah Berry series in Kleinhans Music Hall, and suburban community concerts. Private instruction (not carrying college credit) may be arranged on a fee basis with outside teachers in voice, organ, and all of the standard instruments.

SCIENCE DEPARTMENT

John Urban, Chairman

Professors *Eckert, Harman, Lampkin, Sengbusch**; Associate Professors *Dupre, Irish, Laug, Sheel**; Assistant Professors *Fretz, Heider, Holmes, Nadolinski, Rouse, Tesmer, Thielking, Tomaka.*

Elementary School Science Sequence

The increased teaching of science to children in the elementary school has created a need for elementary school teachers who have special preparation in the field of science. Elementary Education students, interested in this kind of teaching may supplement their regularly required science courses by taking science electives (fifteen semester hours) beginning with the sophomore year, enabling them to complete the Elementary School Science Sequence and receive the College Science Sequence Certificate. Preparation for positions of supervisors or consultants in Science in Elementary Education usually requires additional work on the graduate level.

The recommended sequence of science courses to be followed by students is:

FIRST YEAR

Science 160 161. Biology. (required)

SECOND YEAR

General Education 203-204. Man and His Natural Environment. (required)

Science elective by advisement each semester.

At the end of the sophomore year students will be divided into two groups: Division A will do student teaching in the junior year; Division B in the senior year.

* On leave.

THIRD YEAR

DIVISION A (JUNIOR TEACHING SECTIONS)

Science 310. Science in the Elementary Grades (First semester)
Practicum in Teaching (Second semester)

DIVISION B (SENIOR TEACHING SECTIONS)

Science 410. Field Studies in Science (Fall semester)
Science 310. Science in the Elementary Grades (Spring semester)

FOURTH YEAR

DIVISION A (JUNIOR TEACHING SECTIONS)

Science 410. Field Studies in Science (Fall semester)
Science Science elective by advisement (Spring semester)

DIVISION B (SENIOR TEACHING SECTIONS)

Practicum in Teaching (Fall semester)
Science Science elective by advisement (Spring semester)
The science electives by advisement will be selected from the following:

Science 203-204. Physics
Science 303-304. Inorganic Chemistry
Science 305. Zoology
Science 306. Botany
Science 311. Geology
Science 312. Meteorology
Science 313. Descriptive Astronomy
Science 314. Atomic Energy
Science 315. Microbiology
Science 325. Science in Outdoor Living
Science 401. Genetics
Science 425. Science Camp
Geography 407. Conservation of Natural Resources

EXTENSION OF ELEMENTARY EDUCATION CERTIFICATE TO INCLUDE EARLY SECONDARY SCHOOL SCIENCE TEACHING

Elementary Education students may extend their elementary education certificate to include the teaching of science in early secondary school by enrolling in a five-year program of science courses according to the schedule outlined below enabling them to complete certification requirements in the graduate program.

FIRST YEAR

Science 160-161. Biology

SECOND YEAR

General Education 203-204. Man and His Natural Environment
Science 203-204. Physics

THIRD YEAR

DIVISION A (JUNIOR TEACHING SECTION)

Science 311. Geology (First semester)
El.Ed. 315. The Child and the Curriculum III (First semester)
Ed. 318. Teaching Science in the Early Secondary School (First semester)
El.Ed. 470. Practicum in Elementary School Teaching (Second semester)
Ed. 473. Practicum in the Teaching of Science in the Early Secondary School (Second semester)

DIVISION B (SENIOR TEACHING SECTION)

Science 303-304. Inorganic Chemistry (Both semesters)
Science 311. Geology (First semester)
El.Ed. 315. The Child and the Curriculum III (Second semester)
Ed. 318. Teaching Science in the Early Secondary School (Second semester)

FOURTH YEAR

DIVISION A (JUNIOR TEACHING SECTION)

Science 303-304. Inorganic Chemistry (Both semesters)
Science Science elective by advisement (Second semester)

DIVISION B (SENIOR TEACHING SECTION)

El.Ed. 470. Practicum in Elementary School Teaching (First semester)
Ed. 473. Practicum in the Teaching of Science in the Early Secondary School (First semester)
Science Science elective by advisement (Second semester)

FIFTH YEAR

Science 518. Human Biology (required)
Science 502. Field Studies in Science II (required)
Six semester hours from among the following:
Science 501. Field Studies in Science I
Science 503. Ecology
Science 504. Regional Study in Science
Science 505. Conservation Workshop
Science 523. Science in Transportation
Science 524. Science in Outdoor Education
Science 527. Current Research in Science
Science 528. Seminar in Science Education

SCI. 101. PHYSICAL SCIENCE I—The scientific method of inquiry as exemplified in astronomy, geology and meteorology; the size and organization of our solar system and the starry heavens; processes which have modified

and continue to modify the earth's surface; factors which determine weather and climate. Required for all Elementary Education students enrolled before July 1, 1957. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 151-152. CHEMISTRY APPLIED TO HOME ECONOMICS—The basic principles of inorganic, organic, and biological chemistry as applied to foods, nutrition, and textiles. Required of all freshmen in Division of Home Economics. *Four hours per week, including laboratory.* Remedial sections (required of students who have not had high school chemistry) *two additional hours per week. Both semesters. Credit: six semester hours.*

SCI. 160-161. BIOLOGY—Principles and theories of structure, taxonomy, physiology, ecology, reproduction, genetics and evolution of plants and animals. Required of all Elementary Education freshmen. *Four hours per week, including laboratory, first semester; three hours per week, including laboratory, second semester. Credit: five semester hours.*

SCI. 201-202. BIOLOGY—Required of all Elementary Education students enrolled July 1, 1957. For description see 1957-58 catalog.

SCI. 203-204. PHYSICS—Mechanics, heat, sound, light and electricity; the nature, behavior and transformation of energy; man's control of energy. Elective for Elementary Education sophomores, juniors, and seniors. Required for early secondary school science teaching certification. *Four hours per week, including laboratory. Both semesters. Credit: six semester hours.*

SCI. 205-206. INDUSTRIAL ARTS PHYSICS—Required of all Industrial Arts Education students enrolled before July 1, 1957. For description see 1957-58 catalog.

SCI. 227. PHYSICS APPLIED TO HOME ECONOMICS—Principles of physics which help the student to understand her environment, and which have direct applications in the home; characteristics and uses of mechanical energy, heat, light, electricity, and sound. Required of all Home Economics students enrolled before July 1, 1957. *Three hours per week, including laboratory. One semester. Credit: two semester hours.*

SCI. 240. BIOLOGY—The natural history, classification, structure, life processes, and inter-relationships of plants and animals; the nature of biological resources, their importance to man, and their conservation. Required of all Art Education students enrolled before July 1, 1957. *Four hours per week, including laboratory or field study. One semester. Credit: three semester hours.*

SCI. 241. BIOLOGY FOR HOME ECONOMICS 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. Required of all Home

Economics sophomores. Prerequisites: Sci. 151-152 or the equivalent. *Six hours per week, including laboratory. One semester. Credit: four semester hours.*

SCI. 301-302. CHEMISTRY—Required of all Industrial Arts Education students enrolled before July 1, 1957. For description see 1957-58 catalog.

SCI. 303-304. INORGANIC CHEMISTRY—Laws governing the composition of matter; changes in composition; structure of the atom; energy relationships in chemical changes. Elective for Elementary Education sophomores, juniors, and seniors. Required for junior high school science teaching certification. Prerequisite: Sci. 203-204 or the equivalent. *Four hours per week, including laboratory. Both semesters. Credit: six semester hours.*

SCI. 305. ZOOLOGY—Morphology, physiology, adaptation, reproduction, genetics and ecology of animals. Lectures, demonstrations, laboratory work. Prerequisites: Sci. 160-161 or 201-202; otherwise by permission of instructor. *Four hours per week. Credit: three semester hours.*

SCI. 306. BOTANY—Structure and physiology of plants in relation to practical problems; observations, experiments and laboratory work centering around control of plant life. Prerequisites: Sci. 160-161 or 201-202; otherwise by permission of instructor. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 310. SCIENCE IN THE ELEMENTARY GRADES—Background and function of elementary school science together with its subject matter; demonstrations, experiments, visual and other materials used in elementary school science. Required of juniors in the Elementary School Science Sequence and elective for other Elementary Education juniors, and seniors. Other classes and departments by arrangement with instructor. Prerequisite: Sci. 101, 201-202 or their equivalent. *Four hours per week, including laboratory. One semester. Credit: three semester hours.*

SCI. 311. GEOLOGY—Results achieved by geologic processes during past ages, including life and activity in the various eras; local fossils, rock formations and geologic history studied in museum and on field trips. Elective for Elementary Education sophomores, juniors, and seniors, and others by arrangements with instructor. Required for early secondary school science teaching certification. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 312. METEOROLOGY—The atmosphere; methods of observing and recording weather elements; explanation of weather changes; interpretation of the weather map; basic principles of forecasting; relation of weather to man and his activities. Elective for sophomores, juniors, and seniors. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 313. DESCRIPTIVE ASTRONOMY—The solar system, Milky Way Galaxy, and other celestial systems and objects. Observation of stars and

planets; use of simple instruments; field trips; selected teaching aids. Elective for sophomores, juniors, and seniors. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 314. ATOMIC ENERGY—The structure of the atom; chemical energy; nuclear energy and its implications for modern life. Elective for sophomores, juniors, and seniors. Permission of instructor required. *Three hours per week. Credit: three semester hours.*

SCI. 315. MICROBIOLOGY—Microorganisms and the techniques of observing their morphology, growth characteristics and distribution. The relationship of microorganisms to man and his activities. Elective for Elementary Education sophomores, juniors and seniors. Prerequisite: Sci. 160-161, or 201-202, or the equivalent. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 325. SCIENCE IN OUTDOOR LIVING—Direct experiences applying scientific principles to learning, living, and survival in the out-of-doors. Camping knowledges and skills as they contribute to study and appreciation of natural habitats and resources. Elective for juniors, and seniors. Prerequisites: Gen. Ed. 203-204 or the equivalent. *Four hours per week and several overnight trips. Credit: three semester hours.*

SCI. 350. ART ED. PHYSICAL SCIENCE—Cultural survey of the physical sciences (astronomy, geology, physics, chemistry) with application to the field of art; e.g., chemistry of art materials and the physics of light and color. Required of all Art Education students enrolled before July 1, 1957. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 351. INDUSTRIAL ARTS PHYSICS—Mechanics, heat, sound and electricity with particular reference to the needs and interests of students in the Industrial Arts Education Division. Required of all juniors in this division. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 352. INDUSTRIAL ARTS CHEMISTRY—Chemical nature of materials; atomic structure; chemical changes; applications of chemistry to the industrial arts. Required of all juniors in this division. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 401. GENETICS—Principles of heredity; inheritance of specific plant, animal, and human traits. Elective for Elementary Education students. Prerequisite: Sci. 160-161, or 201-202, or the equivalent. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 410. FIELD STUDIES IN SCIENCE—Principles and practices of learning science in field situations; plants and animals in their natural ecological relationships. Short and extended field trips; collection, classification, and preservation of specimens. Required of seniors in the Elementary School Science Se-

quence; elective for other juniors and seniors with permission of instructor. *Four hours per week, including laboratory. Credit: three semester hours.*

SCI. 425. SCIENCE CAMP—Juniors and seniors may register for Science Camp only with permission from the instructor. See Sci. 504 for description.

GRADUATE COURSES IN SCIENCE

SCI. 500. SCIENCE IN THE ELEMENTARY CURRICULUM—Background, purposes and present scope of science in the elementary schools; professional review of subject matter with demonstrations, experiments, audiovisual aids, readings. *Summer session 1958; fall semester. Credit: two or three semester hours.*

SCI. 501. FIELD STUDIES IN SCIENCE—Biological and geological field work; selected field studies, both group and individual; intensive studies of one or more areas. Elective for seniors with an average of C in science completed to date. Prerequisites: Sci. 101, 201-202. *Summer session 1958; fall semester. Credit: two or three semester hours.*

SCI. 503. ECOLOGY—Scientific nature study, including consideration of the relationships between living things and their physical environment; biological relationships between and within species; man's relationships with the natural environment. Prerequisite: Sci. 101, 201-202, or the equivalent. Lectures, discussion, readings. *Summer session 1958; spring semester 1959. Credit: two or three semester hours.*

SCI. 504. REGIONAL STUDY IN SCIENCE—Field work at Allegany State Park; out-of-doors science for the teacher; identification of wild flowers, trees, birds, insects, and other living things; relationships between living things and their environment; geology of the Park, and of western New York. Open to graduate and undergraduate students. Prerequisites: Sci. 101, 201-202, or the equivalent. *Post-session summer 1958. Credit: two semester hours.*

SCI. 518. HUMAN BIOLOGY—Origin and development of the human species; human anatomy and physiology; reproduction, embryology, and life cycle; genetics of man; conservation of human resources; new problems in human biology. Required of all candidates for extension of certification to include the teaching of science in the early secondary school. Prerequisites: Sci. 201-202, 303-304. *Summer session 1958; spring semester 1959. Credit: two or three semester hours.*

SCI. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

SCI. 526—INDIVIDUAL INVESTIGATION OF AN ORIGINAL PROBLEM IN SCIENCE OR ELEMENTARY SCHOOL SCIENCE EDUCATION—No required class attendance; work to be planned and carried out by student, with consultation and guidance from instructor. For graduate students only. *Each semester. Credit: one semester hour.*

SCI. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department. *Summer session 1958, each semester. Credit: two or three semester hours.*

SOCIAL STUDIES DEPARTMENT

Harold F. Peterson, Chairman

Professors *Crossley, Hollister, Mason*, Robison*; Associate Professors *E. A. Brown, R. C. Brown, Brunger, Roesser, Sexton, Weaver*; Assistant Professors *Falk, Rogers, Stern, Thorsell*; Instructor *Richards*.

EXTENSION OF ELEMENTARY EDUCATION CERTIFICATE TO INCLUDE THE TEACHING OF SOCIAL STUDIES IN THE EARLY SECONDARY SCHOOL

Elementary Education students may extend their teaching certificates to include teaching of the Social Studies in the early secondary school by enrolling in a five-year program of courses according to a schedule such as the one outlined below. Substitutions may be allowed according to the needs and interests of individual students. Students wishing to enter this program must consult with the Chairman of the Social Studies Department at the earliest possible time.

FIRST YEAR

S.S. 101-102. History of Civilization (Both semesters)

SECOND YEAR

S.S. 201-202. Contemporary Civilization (Both semesters)

* On leave.

THIRD YEAR

JUNIOR TEACHING SECTION

S.S. 301. American Civilization and Government (Fall semester)
Geog. 301. General Geography I (Fall semester)
El.Ed. 315. The Child and the Curriculum III (Fall semester)
El.Ed. 470. Practicum in Elementary School Teaching (Spring semester)
Ed. 319. Teaching Social Studies in the Early Secondary School (Fall semester)
Ed. 474. Practicum in the Teaching of Social Studies in the Early Secondary School (Spring semester)

SENIOR TEACHING SECTION

S.S. 301-302. American Civilization and Government (Both semesters)
Geog. 301. General Geography I (Spring semester)
El.Ed. 315. The Child and the Curriculum III (Spring semester)
Ed. 319. Teaching Social Studies in the Early Secondary School (Spring semester)

FOURTH YEAR

JUNIOR TEACHING SECTION

S.S. 302. American Civilization and Government (Spring semester)
S.S. 402. Sociology (Fall semester)
Geog. 402. General Geography II (Fall semester)

SENIOR TEACHING SECTION

S.S. 402. Sociology (Spring semester)
Geog. 402. General Geography II (Spring semester)
El.Ed. 470. Practicum in Elementary School Teaching (Fall semester)
Ed. 474. Practicum in the Teaching of Social Studies in the Early Secondary School (Fall semester)

ELECTIVES (BY ADVISEMENT)

S.S. 304. American History to 1789
S.S. 312. History and Government of New York State
or
Geog. 406. Geography of New York State
S.S. 335. Principles and Problems of Economics
or
S.S. 426. Contemporary Economic Problems
S.S. 346. American Politics and Political Parties
or
S.S. 347. American Political Institutions and Problems
Other Social Studies or Geography electives, such as:
S.S. 310, 341, 343, 344, 345, 403, 405, 406, 407, 408, 411, 417, 422, 428, 436; Geog. 302, 405, 407.

FIFTH YEAR

(Graduate Courses to be taken in Summer Session or Extension)

Required Courses: (by advisement) within the area of specialization

12 Sem. Hrs.

a. In related fields:

Political Science such as S.S. 503, 519	} Minimum of 2 hours each in 2 fields
Economics such as S.S. 505	
Sociology such as S.S. 506, 510, 521	

6 Sem. Hrs.

(If this requirement has been met by electives on the undergraduate level, the student may substitute Social Studies graduate electives.)

b. Concentration in 1 of 3 areas

6 Sem. Hrs.

Community and New York State Studies such as:

S.S. 506, 507, 509, 510, 519

American Studies such as:

S.S. 500, 502, 504, 512, 513, 515, 521; Geog. 504

World Studies such as:

S.S. 501A, 501B, 511, 516, 518; Geog. 500

Elective Courses: (by advisement) within the area of specialization or other academic fields

9-10 Sem. Hrs.

Professional Courses

8-9 Sem. Hrs.

Required courses: Ed. 532, (by advisement) Ed. 529, 536

Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542

Total Graduate Requirement

30 Sem. Hrs.

S.S. 101-102. HISTORY OF CIVILIZATION—Persistent problems of civilization as background for contemporary world issues: relationships of man and the state; reform and revolution; religion and other aspects of man's spiritual and intellectual development; changing methods and organization of economic life; imperialism and the problems of empire; growth of nationalism and internationalism; covers the period to 1870. Required of Elementary Education freshmen. S.S. 101 is prerequisite to 102. *Three hours per week. Both semesters. Credit: six semester hours.*

S.S. 157. MAN: HIS CULTURE, SOCIETY, AND VALUES—Basic concepts from the Social Sciences that aid in understanding Man and his behavior: study of culture and society, and their contribution to the formation of personality; study of values; significance of social institutions as a means of realizing those values. Required of Art Education sophomores and Home Economics Education freshmen. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 201-202. CONTEMPORARY CIVILIZATION—Continuation of S.S. 101-102; problems of political and economic organization; recent nationalism and imperialism; revolutions and the pattern of dictatorship; attempts at world organization; chief developments of major European and Asiatic

countries. Required of Elementary Education sophomores. Prerequisite: S.S. 101-102, S.S. 201 is prerequisite to 202. *Three hours per week. Both semesters. Credit: six semester hours.*

S.S. 205. CONTEMPORARY CIVILIZATION FOR INDUSTRIAL ARTS STUDENTS—European civilization since 1914; background of World War I; ideologies which resulted from the war; factors producing World War II; problems of peace and reconstruction. Required of Industrial Arts Education sophomores. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 230. 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. Elementary Education sophomores must elect one course from Group A (S.S. 230, S.S. 231, or S.S. 232). Elective for sophomores, juniors, and seniors in all divisions. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 231. SOCIAL HISTORY OF THE AMERICAN PEOPLE—Colonial society; the American Revolution as a social movement; Jeffersonian and Jacksonian democracy; efforts to reform society; sectional societies; rise of the city; organized religion in America; immigration; minority groups; anti-democratic movements; American society in the machine age. Elementary Education sophomores must elect one course from Group A (S.S. 230, S.S. 231, or S.S. 232). Elective for sophomores, juniors, and seniors in all divisions. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 232. ECONOMIC HISTORY OF THE AMERICAN PEOPLE—Colonial economy under imperial controls; establishment of a free economy; transportation boom; sectional economies; clash of economic systems in the Civil War; growth of the industrial state; decline of agriculture; rise of labor; growth of monopoly and government regulation; efforts to control the economy for the social good. Elementary Education sophomores must elect one course from Group A (S.S. 230, S.S. 231, or S.S. 232). Elective for sophomores, juniors, and seniors in all divisions. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 240. THE AMERICAN COMMUNITY—Social and economic structure and problems of contemporary American communities; rural—agriculture in an industrialized 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; interrelationship of rural and urban communities—population trends, centralization and decentralization, mass communications. Elementary Education sophomores must elect one course from Group B (S.S. 240, S.S. 241, or S.S. 242). Elective for sophomores, juniors, and seniors in all divisions. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 241. 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. Elementary Education sophomores must elect one course from Group B (S.S. 240, S.S. 241, or S.S. 242). Elective for sophomores, juniors, and seniors in all divisions. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 242. 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. Elementary Education sophomores must elect one course from Group B (S.S. 240, S.S. 241, or S.S. 242). Elective for sophomores, juniors, and seniors in all divisions. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 257. THE COMMUNITY: ECONOMIC AND SOCIAL PROBLEMS—Theoretical basis of American economy; poverty at home and abroad; business organization, monopoly, government control; agricultural problems; foreign aid; the consumer interest; insurance and taxation; business cycle; population and migration; the changing community; health, housing, recreation; crime and delinquency; group behavior; mass communication. Required of Home Economics Education sophomores. Prerequisite: S.S. 157. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 301-302. AMERICAN CIVILIZATION AND GOVERNMENT—Establishment of the American republic; growth of American civilization; relations between the government and the people; place of the nation in the modern world. Required of Elementary Education and Industrial Arts Education juniors. S.S. 301 is prerequisite to 302. *Three hours per week. Both semesters. Credit: six semester hours.*

S.S. 305. AMERICAN HISTORY FROM 1789-1865—Adoption of the Constitution; formation and growth of political parties; rise of national spirit; Jacksonian democracy; westward movement; sectionalism; the Civil War. *Two or three hours per week. Summer session, 1958. Credit: two or three semester hours.*

S.S. 306. AMERICAN HISTORY SINCE 1865—Economic, political, and social problems of the post-Civil War era; recognition of the United States as a world power; its part in two World Wars; recent developments in international affairs. *Two or three hours per week. Extension, fall semester, 1958-59. Credit: two or three semester hours.*

S.S. 310. HISTORY OF THE FAR EAST—China, Japan, and South-east Asia in modern times: traditional cultures; impact of Western ideas; problems of modernization and industrialization; cultural changes; rise of nationalism and communism. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester, 1958-59; Extension, spring semester, 1958-59. Credit: three semester hours.*

S.S. 312. 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. Elective for sophomores, juniors, and seniors. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 315. 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. *Two or three hours per week. Credit: two or three semester hours.*

S.S. 335. PRINCIPLES AND PROBLEMS OF ECONOMICS—Basic principles; contemporary problems and trends; labor-management relations; prices and inflation; pre-war, war-time, and post-war adjustments. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester, 1958-59. Credit: three semester hours.*

S.S. 341. 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." Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester, 1958-59. Credit: three semester hours.*

S.S. 343. CULTURAL ANTHROPOLOGY—Man as a physical form; culture in its relation to society, to the individual, and to personality; prehistoric developments of culture; universals and variations in cultures; cultural traits and institutions; dynamics of cultural change. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester, 1958-59. Credit: three semester hours.*

S.S. 344. EXPANSION OF EUROPE—Motives and agencies in the discovery, exploration, and settlement of colonies; rise of nationalistic movements among colonial peoples; effects upon international relations. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester, 1958-59. Credit: three semester hours.*

S.S. 345. 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. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester, 1958-59. Credit: three semester hours.*

S.S. 346. AMERICAN POLITICS AND POLITICAL PARTIES—Framework of American political system; major and minor parties; party or-

ganization; 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. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester, 1958-59. Credit: three semester hours.*

S.S. 347. AMERICAN POLITICAL INSTITUTIONS AND PROBLEMS—Meanings of politics; substance of democracy; techniques of democratic government; separation of powers; legislative process; role of the executive; judicial review; whether federalism?; greater fruition of democratic ideals. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

S.S. 357. MODERN MAN: HIS INTELLECTUAL AND SOCIAL HERITAGE—Significant ideas and their impact on western society since the eighteenth century: rationalism; liberal and conservative thought; transcendentalism vs. materialism; nationalism; religious movements; new social and economic doctrines; science; anti-intellectualism. Required of Art Education and Home Economics Education juniors. Prerequisite: S.S. 157. *Each semester. Credit: three semester hours.*

S.S. 402. SOCIOLOGY—Rise and development of culture; cultural change; social organization and social institutions. Required of Elementary Education seniors. *Three hours per week. Each semester; Summer session, 1958. Credit: three semester hours.*

S.S. 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. Elective for sophomores, juniors, and seniors. *Three hours per week. Fall semester, 1958-59. Credit: three semester hours.*

S.S. 407. GERMANY SINCE 1871—History, government, and political thought; anti-democratic forces; economic and cultural developments; rise and impact of Nazi totalitarianism. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester, 1958-59. Credit: three semester hours.*

S.S. 408. TWENTIETH CENTURY EUROPEAN DIPLOMACY—Causes and diplomatic problems of World Wars I and II; intervening diplomatic history; Paris Peace Conference of 1919; present world diplomatic situation. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

S.S. 411. HISTORY OF LATIN AMERICA—Indian background; European colonization; wars for independence; national development; diplomatic and economic relations with the United States; Inter-American System in the United Nations. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester, 1958-59. Credit: three semester hours.*

S.S. 417. JUVENILE DELINQUENCY—Current trends in juvenile delinquency; causes, nature, and extent of deviant behavior; resources of the clinician; children's court; methods of treatment. Elective for sophomores, juniors, and seniors. *Three hours per week. Spring semester, 1958-59; Extension, fall semester, 1958-59. Credit: three semester hours.*

S.S. 421. INDUSTRIAL HISTORY AND LABOR PROBLEMS—American industry from its English beginnings to the present; influence of inventions, tariffs, trade barriers, and cartels; growth and importance of organized labor. Required of Industrial Arts Education seniors. *Three hours per week. Each semester. Credit: three semester hours.*

S.S. 422. 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. Elective for sophomores, juniors, and seniors. *Credit: three semester hours.*

S.S. 426. CONTEMPORARY ECONOMIC PROBLEMS—Price movements; business trends; labor and management; trade; agriculture in the national economy. Elective for sophomores, juniors, and seniors. *Fall semester, 1958-59. Credit: three semester hours.*

S.S. 428. HISTORY OF CANADA—French and English colonization; confederation; national development; role in British Commonwealth; contemporary trends. Elective for sophomores, juniors, and seniors. *Three hours per week. Credit: three semester hours.*

S.S. 436. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK STATE—For description see S.S. 507. Elective for juniors and seniors.

S.S. 457. CONTEMPORARY MAN: THE INDIVIDUAL IN THE TWENTIETH CENTURY—Economic and political problems of the Age of Bigness: Labor, Business, the Consumer, and Government; laissez-faire vs. controls; agriculture in an industrial world; internationalism vs. nationalism; new challenges to Democracy; the individual's role in government. Required of Art Education and Home Economics Education seniors. Prerequisites: S.S. 157 and S.S. 357. *Three hours per semester. Each semester. Credit: three semester hours.*

GRADUATE COURSES

S.S. 500. STUDIES IN TWENTIETH CENTURY AMERICAN HISTORY—Aspects of American life since 1900; significant trends, policies, and ideas in politics, diplomacy, and national culture; topics for study dictated by student needs and interests. Prerequisites: 15 hours in Social Studies, including

six in American History and six in European History. *Credit: two semester hours.*

S.S. 501B. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY: THE HISTORY AND INSTITUTIONS OF THE SOVIET UNION—Chief factors in tsarist Russia; Revolution of 1917; coming of the Bolsheviks to power; political and social ideology; government and the Communist party; economic system; peasant problem; Soviet foreign policy and its relation to international organization; impact of the Soviet Union upon the western world. Prerequisites: 15 hours in Social Studies, including nine in European History. *Fall semester, 1958-59. Credit: two or three semester hours.*

S.S. 506. MINORITY GROUPS IN AMERICAN CULTURE—Major racial, nationality, and religious minority groups in America treated from the cultural, historical, and familial points of view; current anthropological and psychological data on uniformities, differences, prejudices, and discrimination. Prerequisites: 15 hours in Social Studies. *Credit: two semester hours.*

S.S. 507. FIELD COURSE IN THE HISTORY AND GEOGRAPHY OF NEW YORK STATE—Characteristics of the geographic regions (Allegheny Plateau, Catskills, Hudson and Champlain Lowlands, Adirondacks, Mohawk Valley, Tug Hill and Black River Valley, St. Lawrence Lowland, and Lake Plains); colonial and pioneer settlement; present population pattern; transportation routes and facilities; forts and battlefields of three wars; industrial development; conservation practices; places associated with famous people and movements. One day on campus for orientation and travel arrangements; 14-day trip by chartered bus. Open to graduate and upperclass undergraduate students. *Credit: two semester hours.*

S.S. 509. LOCAL HISTORY: RESEARCH METHODS AND TECHNIQUES—Research involved in the study and presentation of local history, with special reference to the Niagara Frontier and New York State; community facilities; discovery, examination, and use of original materials. Prerequisites: 15 hours in Social Studies, including six in American History. *Fall semester, 1958-59. Credit: two or three semester hours.*

S.S. 510. SELECTED PROBLEMS OF URBAN LIFE—Cultural groups and their backgrounds, attitudes, problems, culture traits, and culture patterns, as found in the local community; racial, nationality, religious, and social class groups; talks by guest representatives of intergroup education agencies and of the culture groups studied. *Credit: two or three semester hours.*

S.S. 513. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES—Social roots of systems of thought; effects of ideas upon American society; continuing patterns of thought, such as Puritanism, liberalism, democracy; contributions of intellectual leaders. Prerequisites: 15 hours in Social Studies, including six in American History. *Fall semester, 1958-59. Credit: two or three semester hours.*

S.S. 514. WORKSHOP IN HUMAN RELATIONS—Exploration of means to more productive human relations in classrooms; development of constructive social attitudes in children; particular difficulties faced by children of various groups; talks by guest speakers on local problems. Open to graduate and upperclass undergraduates. *Fall semester, 1958-59. Credit: two semester hours.*

S.S. 514A. ADVANCED WORKSHOP IN HUMAN RELATIONS—Materials and methods in individual and group work in human relations; individual situations in a school or community. Open to graduate and upperclass undergraduates. *Spring semester, 1958-59. Credit: two semester hours.*

S.S. 515. STUDIES IN AMERICAN COLONIAL HISTORY—Comparison of colonial policies pursued by European powers in the New World; modification in a new environment of such transplanted elements as the family, church, schools, economy, and government. Prerequisite: 15 hours in Social Studies. *Spring semester, 1958-59. Credit: two or three semester hours.*

S.S. 516. INTERNATIONAL RELATIONS AND THE WORLD TODAY—"The community of nations": self-determination; international organization; international law; world government; human rights; mutual security; foreign policy; military power world trade; social problems; economic assistance; communications; the role of social science; the United States in relationship to other nations and to international organization; dangers and responsibilities attendant to power and leadership. *Spring semester, 1958-59. Credit: three semester hours.*

S.S. 518. CONTEMPORARY EUROPEAN POLITICAL MOVEMENTS—Organization, campaigns, propaganda, electoral geography, parliamentary tactics, and national political parties, especially the Communists, Socialist, Christian Democrat, Radical Democrat, Peasant, Conservative, and Neo-Fascist. Prerequisites: 15 hours in Social Studies, including six in European History. *Credit: two or three semester hours.*

S.S. 521. CONTEMPORARY 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 needs and interests. Prerequisites: course in elementary Sociology. Open to qualified seniors with consent of instructor. *Spring semester, 1958-59. Credit: three semester hours.*

S.S. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

S.S. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department. *Summer session 1958 and each semester. Credit: two or three semester hours.*

Education Department

Oscar E. Hertzberg, Chairman

Professors *Burrell, Carroll, Crayton, Lange, Milanovich, Moss, O'Brien, Penn, Sherrie,* Trubov, Wagner, Wells*; Associate Professors *Barnett, Eddins, Edmund, Frazee, Hemink, Hilaire, Irish, Jamison, Kelly, Martorana, Sexton, Sherwin*; Assistant Professors *Durnin, Febel, Ferm, Fink, La Morte, Pratt, Quaal, Robinson, Wilson.*

ED. 151. HUMAN GROWTH AND DEVELOPMENT—Problems and methods of studying human behavior; hereditary and environmental factors influencing behavior; physical and motor development; mental development and learning; providing for individual differences; evaluating human growth and development; directed observation. Required of all Elementary Education, Exceptional Children Education, and Home Economics freshmen; also required of Art Education and Industrial Arts sophomores. *Three hours per week; one hour additional when observing. Fall semester. Credit: three semester hours.*

ED. 152. HUMAN GROWTH AND DEVELOPMENT—Emotional development and learning; motivation; personal and social growth; effect of home, school and community; personality development; evaluating human growth and development; directed observation. Required of all Elementary Education, Exceptional Children Education, and Home Economics freshmen; also required of Art Education and Industrial Arts sophomores. *Three hours per week; one hour additional when observing. Spring semester. Credit: three semester hours.*

ELED. 201. THE CHILD AND THE CURRICULUM I—Objectives of elementary education; the elementary school system in New York State and the United States; the teacher as a professional person; sociological changes affecting the schools; school and community relationships; directed observation and participation. Required of all Elementary Education and Exceptional Children Education sophomores. Prerequisites: Ed. 151-152. *Three hours per week; one hour additional when observing. Each semester. Credit: three semester hours.*

ELED. 202. THE CHILD AND THE CURRICULUM I—Physiological and psychological factors affecting learning; improvement in learning; aids to effective learning; transfer of training; teaching of reading; directed observation and participation. Required of all Elementary Education sophomores not

* On leave.

following the Early Childhood Education sequence; also required of Exceptional Children Education sophomores. Prerequisites: Ed. 151-152. *Three hours per week; one hour additional when observing. Each semester. Credit: three semester hours.*

EL.ED. 202C. THE CHILD AND THE CURRICULUM I—Factors affecting learning in children from three to eight; reading instruction through grade three; relationship to later reading activities; directed observation and participation. Required of all Elementary Education sophomores electing the Early Childhood Education sequence. Prerequisites: Ed. 151-152. *Three hours per week; one hour additional when observing. Each semester. Credit: three semester hours.*

EL.ED. 301. THE CHILD AND THE CURRICULUM II—Observation, classroom participation, class discussion, and conferences with instructors; teacher-pupil relationships; selecting, organizing, and presenting curriculum materials on different grade levels; evaluating pupil progress. Required of all Elementary Education juniors not following the Early Childhood Education sequence; also required of Exceptional Children Education juniors. Prerequisites: Ed. 151-152, El.Ed. 201, 202; cumulative average of 2.00 or higher. *Six hours of participation and three class hours per week. Each semester. Credit: six semester hours.*

EL.ED. 301C. THE CHILD AND THE CURRICULUM II—Observation, participation, class discussion, and conferences with instructors and classroom teachers; group life of the child from three to eight; teacher-pupil relationships; materials of instruction on pre-school and early school levels; evaluating pupil progress. Required of all Elementary Education juniors following Early Childhood Education sequence. Prerequisites: Ed. 151-152, El.Ed. 201, 202C; cumulative average of 2.00 or higher. *Six hours of participation and three class hours per week. Each semester. Credit: six semester hours.*

EL.ED. 308C. SEMINAR IN EARLY CHILDHOOD EDUCATION—Teaching the young child in nursery school, kindergarten, and primary grades; building a curriculum (activities and materials); communicating and planning with parents; evaluation procedures. Required of all Early Childhood Education students. Elective for other students by approval of appropriate division director. *Summer session 1958. Each semester. Credit: three semester hours.*

EL.ED. 315. THE CHILD AND THE CURRICULUM III—Observation, participation, class discussion, conferences with instructors and classroom teachers; teacher-pupil relationships; selecting, organizing, and presenting curriculum materials on different elementary grade levels; evaluating pupil progress. Required in fifth or sixth semester in lieu of El.Ed. 301 of all Elementary Education juniors preparing to teach English, mathematics, science, or social studies in the early secondary school. Prerequisites: Ed. 151-152, El.Ed. 201, 202; cumulative average of 2.00 or higher. *Six hours of participation in elementary grades and three class hours per week. One-half semester. Each semester. Credit: three semester hours.*

ED. 316. TEACHING ENGLISH IN THE EARLY SECONDARY SCHOOL

ED. 317. TEACHING MATHEMATICS IN THE EARLY SECONDARY SCHOOL

ED. 318. TEACHING SCIENCE IN THE EARLY SECONDARY SCHOOL

ED. 319. TEACHING SOCIAL STUDIES IN THE EARLY SECONDARY SCHOOL

Juniors extending the validity of the elementary education certificate to teach in the early secondary school must choose one of the above. Observation, participation, class discussion, conferences with instructors and classroom teachers; teacher-pupil relationships; selecting, organizing and presenting curriculum materials; evaluating pupil progress. Required, with El.Ed. 315, of all Elementary Education juniors in fifth or sixth semester. Prerequisites: Ed. 151-152, El.Ed. 201, 202; cumulative average of 2.00 or higher; approval by appropriate department chairman. Six hours of participation in early secondary grades and three class hours per week. One-half semester. Each semester. Credit: three semester hours.

EL.ED. 401. PRACTICUM IN TEACHING—Full-time teaching under supervision in elementary grades five days per week; group and individual conferences at college two Fridays during each of two nine-week assignments; 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. Required in sixth or seventh semester of all Elementary Education juniors (Early Childhood Education sequence students see El.Ed. 401C). Thirty (30) hours of teaching and conferences per week. Prerequisites: passing grade in Eng. 102; speech exemption, or a grade of C or higher in Eng. 306, grade of C or higher in El.Ed. 301, cumulative average of 2.00 or higher. *Each semester. Credit: fifteen semester hours.*

EL.ED. 401C. PRACTICUM IN TEACHING—Full-time teaching under supervision on pre-school and early school levels five days per week; group and individual conferences at college two Fridays during each of two nine-week assignments; individual and group instruction; daily and long-view planning; teacher-pupil planning; classroom management; routine procedures; audio-visual aids; community resources; record keeping; evaluation procedures; participation in total school program. Required in sixth or seventh semester in lieu of El.Ed. 401 of students following Early Childhood Education sequence. Thirty (30) hours of teaching and conferences per week. Prerequisites: passing grade in Eng. 102; speech exemption, or a grade of C or higher in Eng. 306, grade of C or higher in El.Ed. 301C, cumulative average of 2.00 or higher. *Each semester. Credit: fifteen semester hours.*

EL.ED. 402. SEMINAR IN ELEMENTARY SCHOOL TEACHING—Philosophic needs in elementary school teaching; teaching problems; research

methods in solving educational problems. Required of all Elementary Education and Early Childhood Education seniors including those extending elementary certificate to teach in Early Secondary School. Prerequisites: for Elementary Education: EL.Ed. 401; for Early Childhood Education: EL.Ed. 401C; for Early Secondary School: EL.Ed. 315; Ed. 316, Ed. 317, Ed. 318, or Ed. 319. *Summer session 1958. Each semester. Credit: three semester hours.*

ED. 463. 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; liability; insurance interpretation; effects of alcohol; theory and maintenance of automobile; cooperating agencies. Required for certification to teach Driver Education in New York State. Prerequisites: a good driving record (a licensed operator for at least two years); preparation for secondary school certification. *Two class hours and two laboratory hours per week. Elective. Each semester; Summer session 1958. Credit: three semester hours.*

ED. 465. 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. Elective. *Each semester; Summer session 1958. Credit: three semester hours.*

ED. 470. PRACTICUM IN ELEMENTARY SCHOOL TEACHING—Full-time teaching under supervision five days per week; group and individual conferences at college two Fridays 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. Required in lieu of EL. Ed. 401 of all Elementary Education juniors or seniors preparing for extension of certificate to teach in one of the following areas: Exceptional Children Education; Early Secondary School English, mathematics, science or social studies. Sixth or seventh semester. Thirty (30) hours of teaching and conferences per week. Prerequisites: passing grade in Eng. 102; speech exemption, or a grade of C or higher in Eng. 306, grade of C or higher in EL. Ed. 315; grade of C or higher in Ed. 316, 317, 318, or 319, cumulative average of 2.00 or higher. *One-half semester. Each semester. Credit: eight semester hours.*

ED. 471. PRACTICUM IN THE TEACHING OF ENGLISH IN THE EARLY SECONDARY SCHOOL.

ED. 472. PRACTICUM IN THE TEACHING OF MATHEMATICS IN THE EARLY SECONDARY SCHOOL.

ED. 473. PRACTICUM IN THE TEACHING OF SCIENCE IN THE EARLY SECONDARY SCHOOL.

ED. 474. PRACTICUM IN THE TEACHING OF SOCIAL STUDIES IN THE EARLY SECONDARY SCHOOL.

Students extending the validity of the elementary education certificate to teach in the early secondary school must choose one of the above. Full-time teaching under supervision five days per week; group and individual conferences at college two Fridays during nine-week assignment; 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. Required with EL.Ed. 470 in sixth or seventh semester. Thirty (30) hours of teaching and conferences per week. Prerequisites: passing grade in Eng. 102; speech exemption, or a grade of C or higher in Eng. 306, grade of C or higher in EL.Ed. 315; grade of C or higher in Ed. 316, 317, 318, or 319, cumulative average of 2.00 or higher; approval by appropriate department chairman. *One-half semester. Each semester. Credit: seven semester hours.*

EL.ED. 485. READING CLINIC. (See EL.Ed. 585 for course description.)

EL.ED. 486. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. (See EL.Ed. 516 for course description.)

EL.ED. 487. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. (See EL.Ed. 517 for course description.)

GRADUATE COURSES IN EDUCATION

EL.ED. 500. WORKSHOP IN ELEMENTARY EDUCATION—Problems encountered in the elementary schools, selected by members of workshop, general seminar technique, observation in the Summer Campus School. Required of Elementary Education students for Master of Science. Enrollment limited. *Summer session 1958. Credit: six semester hours.*

EL.ED. 500A. WORKSHOP IN ELEMENTARY EDUCATION—Child development; elementary school methods and materials; preparation of an individual report; experience with children in the Campus School. Required of students in the Intensive Teacher Training Program. *Summer session 1958. Credit: eight semester hours.*

EL.ED. 501. SEMINAR IN ELEMENTARY EDUCATION—Research in elementary education; study of specific problems by individual students in their field of teaching. Required of Elementary Education candidates, for the Master of Science. *Summer session 1958, fall semester. Credit: three semester hours.*

EL.ED. 503. ORGANIZATION OF THE ELEMENTARY SCHOOL—Major concepts in Elementary Education; administration of the elementary school; the curriculum; grouping of pupils; the school plant; trends in school building design; co-curricular activities; pupil safety measures. May precede or follow EL.Ed. 504. Open to experienced teachers, principals, and supervisors. *Fall semester. Credit: three semester hours.*

EL.ED. 504. ADMINISTRATION OF THE ELEMENTARY SCHOOL—New York State educational system; legal aspects; school board; educational finance; responsibilities of the principal: business management, school plant management; plant maintenance; pupil transportation; pupil accounting; pupil counseling; teacher recruitment, selection, employment, assignment, orientation, evaluation, tenure and dismissal. May precede or follow EL.ED. 503. Open to experienced teachers, principals, and supervisors. *Summer session 1958, fall semester. Credit: three semester hours.*

EL.ED. 505. EVALUATION TECHNIQUES IN THE ELEMENTARY SCHOOL—Evaluating educational growth of pupils; evaluation related to teaching objectives; informal, objective, and essay type tests; selection, administration, and scoring of measuring instruments (for evaluating and diagnosing mental abilities, educational achievements and personality characteristics of pupils); statistical methods in handling and interpreting data; organization of remedial programs. *Spring semester. Credit: three semester hours.*

ED. 506. PHILOSOPHY OF EDUCATION—Principles underlying educational practices; changing concepts of education; education in a democratic society; teaching procedures as determined by a democratic concept of education. *Summer session 1958, fall semester. Credit: three semester hours.*

EL.ED. 510. SEMINAR IN ELEMENTARY SCHOOL PROBLEMS—Methods and materials in language arts, science and mathematics for Elementary School teachers. Open only to liberal arts graduates in the Intensive Teacher Training Program. *Fall semester. Credit: three semester hours.*

EL.ED. 511. MUSIC AND ART IN THE ELEMENTARY SCHOOL—Activities and experiments in various art materials suitable for elementary grades with emphasis on new processes and procedures; meets the classroom teacher's need in the field of music. Open only to liberal arts graduates in the Intensive Teacher Training Program. *Spring semester. Credit: three semester hours.*

EL.ED. 512. SEMINAR IN HUMAN GROWTH AND DEVELOPMENT—Growth and development of elementary school children; guiding child growth in the mental, social, physical and emotional areas; individual and group work on specialized problems; field trips; observations in classrooms. Required of all students in the Intensive Teacher Training Program. Prerequisite: EL.ED. 500A. *Summer session 1958. Credit: six semester hours.*

EL. ED. 515. 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. Open to graduate students and undergraduate experienced teachers. *Summer session 1958. Credit: three semester hours.*

EL.ED. 516. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL—School curriculum in language arts, social studies, numbers, science; evaluation procedures. Open to graduate students and undergraduate experienced teachers. *Summer session 1958. Credit: three semester hours.*

EL.ED. 517. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications for creating learning experiences for children; developing a language arts program. Open to graduate students and undergraduate experienced teachers. *Summer session 1958, spring semester. Credit: three semester hours.*

ED. 519. APPLIED MENTAL HYGIENE—Principles of mental hygiene and their application to personality development, emotional and social adjustment, and human relationships; application of mental hygiene principles to processes of teaching, pupil learning, classroom management, and conduct of the teacher in lay and professional relationships. *Credit: three semester hours.*

EL.ED. 520. WORKSHOP IN ELEMENTARY SCHOOL ADMINISTRATION AND SUPERVISION—Selection, induction and guidance of new teachers; development of school-community relations; curriculum improvement; adjustment of school facilities to increasing enrollments; in-service education of staff personnel; elementary school problems suggested by the group. Open to principals, supervisors and experienced teachers preparing for certification. *Summer session 1958. Credit: three semester hours.*

EL. ED. 523. PRINCIPLES AND PRACTICES OF GUIDANCE—A basic course designed for teachers, guidance directors and counselors; basic guidance services and techniques. *Summer session 1958. Credit: three semester hours.*

EL.ED. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

ED. 527. PROBLEMS IN EDUCATIONAL SERVICES FOR YOUNG CHILDREN—Current social and economic trends affecting the lives of young children; curriculum contributions for developing individual and group living; educational problems confronting teachers in this specialized field. Open to undergraduates with consent of instructor. *Spring semester. Credit: three semester hours.*

ED. 529. ADOLESCENT PSYCHOLOGY—Social, emotional, mental, physical, and personality development of adolescents; relationship of adolescent behavior to pre-adolescent and post-adolescent development; educational adjustments and vocational interests; guidance program in early secondary school. For students preparing for early secondary school teaching. Prerequisite: six semester hours in Human Growth and Development or its equivalent and the baccalaureate degree. *Summer session 1958. Credit: three semester hours.*

EL.ED. 531. SUPERVISION OF TEACHING—Principles of supervision; classroom observation; evaluating teaching; effect of teachers' purposes and research on choice of subject matter and teaching procedures; teacher-pupil relationships; group and individual conferences; induction of new teachers; inter-visitation; demonstration teaching; teachers' meetings; bulletins; workshops; evaluation of program. Open to experienced teachers, principals and supervisors. *Summer session 1958, spring semester. Credit: three semester hours.*

ED. 532. EARLY SECONDARY SCHOOL EDUCATION—Origin and functions of early secondary education; curriculum patterns; guidance and exploratory programs; articulation between elementary school and senior high school; extra-curricular activities; evaluation in the early secondary school; research methods in solving problems listed above and others suggested by students. Required of all students preparing for early secondary school teaching. Prerequisite: baccalaureate degree. *Spring semester. Credit: three semester hours.*

ED. 533. WORKSHOP IN AUDIO-VISUAL EDUCATION—Basic audio-visual teaching methods; knowledges and skills in use of equipment; films, filmstrips, slides, and other materials; sources of material and equipment; audio-visual programs in the school; film libraries; ordering of materials; budgets and administration; evaluation of the program. *Summer session 1958, fall semester. Credit: two or three semester hours.*

ED. 537. EVALUATION IN THE EARLY SECONDARY SCHOOL—Relationship of evaluation to instructional objectives; selecting, administering, scoring, recording and interpreting standardized and teacher-made instruments for evaluating mental abilities, educational achievements, personality characteristics, interest and aptitudes; diagnosis, guidance, counseling, and improving instruction; organizing programs to provide for individual differences; modern practices in reporting pupil progress; statistical concepts and methods of collecting, tabulating and interpreting data. *Summer session 1958. Credit: three semester hours.*

ED. 542. SEMINAR IN THE EARLY SECONDARY SCHOOL CURRICULUM—Curricular and extra-curricular programs related to social, economic, and community changes; relationship of principles and procedures of curriculum development to educational objectives; relationship of extra-curricular activities to curriculum areas; adaptation of the curriculum to adolescent abilities, needs, and interests; various patterns of curriculum development; financing, organizing, scheduling, and supervising extra-curricular activities; bases for determining extent and type of student participation in school management. *Fall semester. Credit: three semester hours.*

ED. 546. 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; develop-

mental levels of reading; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading. *Summer session 1958, spring semester. Credit: three semester hours.*

EL.ED. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 566. 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; effect of narcotics; teaching safety in the public schools. *Summer session 1958. Credit: three semester hours.*

ED. 567. DRIVER EDUCATION—Behind-the-wheel instruction of a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law; accident statistics; accident prevention; traffic engineering; liability; insurance interpretation; effects of alcohol; maintenance of an automobile; co-operating agencies; special research project. Required for certification to teach Driver Education in New York. *Summer session 1958. Credit: three semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—Various research techniques; collecting, classifying, evaluating data. Required of all candidates for Master of Science degree not writing a thesis, or completing a project. *Summer session 1958, each semester. Credit: two or three semester hours.*

EL.ED. 585. READING CLINIC—Effective teaching procedures to achieve competence in comprehension, facility, word recognition and spelling; identification of reading needs; maladjustments related to reading disability; remedial instruction for specific problems. Open to graduate students and undergraduate experienced teachers. *Summer session 1958. Credit: six semester hours.*

EXCEPTIONAL CHILDREN EDUCATION DIVISION

Horace Mann, Director

Professor Bobroff; Associate Professors Bloustein, Dickson, Gallagher.

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. Required for students majoring in education of hard of hearing and speech correction. Pre-

requisite: Ex.Ed. 241. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 241. 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. *Three hours per week. Both semesters. Credit: three semester hours.*

EX.ED. 305. INTRODUCTION TO PHONETICS—Production and representation of English (American) speech sounds; application of phonetics to the correction of deviations in children's speech. Required of students majoring in speech correction and education of hard of hearing. Prerequisite: Ex.Ed. 241. *Two hours per week. Spring semester. Credit: two semester 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. Required of students majoring in speech correction. Prerequisite: Ex.Ed. 305. *Three hours per week. Fall semester. Credit: three semester hours.*

EX.ED. 307. SPEECH PATHOLOGY—Etiology and therapy of more severe speech defects particularly extensive organic problems; observation of diagnosis and treatment. Required of students majoring in speech correction. Prerequisite: Ex.Ed. 306. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 308. CLINICAL PROCEDURES IN SPEECH CORRECTION—Techniques of examination and treatment of children with speech defects; organization and operation of public school speech correction programs; work with children in the out-patient clinic under supervision. Required of students majoring in speech correction. Prerequisite: Ex.Ed. 307. *Six hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 310. MENTAL AND EDUCATIONAL MEASUREMENT—Construction, use and interpretation of mental and educational achievement tests. Required for students majoring in education of mentally retarded and orthopedically handicapped children. Prerequisite: Ex.Ed. 409, I.A. 305. *Three hours per week. Fall semester. Credit: three semester hours.*

EX.ED. 312. 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. Prerequisite: Ex.Ed. 306. *Three hours per week. Fall semester. Credit: three semester hours.*

EX.ED. 325. 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. Prerequisite: Ex.Ed. 312. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 328. METHODS OF TEACHING CHILDREN WITH ORTHOPEDIC HANDICAP—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. Required for students majoring in the education of orthopedically handicapped children. Prerequisites: Ex.Ed. 362, 371. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 362. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION—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. Prerequisite: Ex.Ed. 409. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 370. OBSERVATION AND PARTICIPATION IN MENTAL RETARDATION—Observation, classroom participation, class discussion, and conferences with instructors; teacher-pupil relationships; selecting, organizing, and presenting curriculum materials on different grade levels; evaluating pupil progress in classes for the mentally retarded. Required of all Exceptional Children Education juniors in mental retardation. Prerequisites: Ex.Ed. 310, 362. *Six hours of participation and three class hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 371. 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. Required of all Exceptional Children Education juniors in physically handicapped. Prerequisites: Ex.Ed. 310, 328. *Six hours of participation and three class hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 372. PARTICIPATION AND CLINICAL PROCEDURES—Techniques of examination and treatment of children with speech and hearing defects, organization and operation of public school speech correction programs; work with children in the out-patient clinic under supervision. Required of students majoring in speech correction. Prerequisites: Ex.Ed. 307, 311. *Six hours of participation and three class hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 401. PRACTICUM IN TEACHING CHILDREN WITH RETARDED MENTAL DEVELOPMENT—Practice teaching under supervision in a special class for children with retarded mental development. Second half of the first semester of the senior year. Prerequisite: Education 401, to be taken during the first half of the first semester of the senior year. *All day, first four days of the week; individual conferences on the fifth day. Credit: seven semester hours.*

EX.ED. 405. PRACTICUM IN SPEECH CORRECTION AND HEARING—Teaching under supervision of a public school speech and hearing therapist. Second half of the first semester of the senior year. Prerequisite: Education 401, which should be taken during the first half of the first semester of the senior year. *All day, first four days of the week; individual conferences on fifth day. Credit: seven semester hours.*

EX.ED. 407. PRACTICUM IN TEACHING CHILDREN WITH ORTHOPEDIC HANDICAP—Student teaching under supervision in a special class for orthopedically handicapped children. Second half of the first semester of senior year. Prerequisite: Education 401 which should be taken during first half of first semester of senior year. *All day, first four days of the week; individual conferences on fifth day. Credit: seven semester hours.*

EX.ED. 422. 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. Required of all students majoring in education of the hard of hearing. *Four hours per week. Fall semester. Credit: three semester hours.*

EX.ED. 449. SEMINAR IN TEACHING CHILDREN WITH MENTAL RETARDATION—Reorientation to teaching based on strengths and weaknesses located during the special class student teaching period. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 450. SEMINAR IN TEACHING CHILDREN WITH ORTHOPEDIC HANDICAP—Reorientation to teaching based on strengths and weaknesses located during the special class student teaching period. *Three hours per week. Spring semester. Credit: three semester hours.*

EX.ED. 451. SPEECH AND HEARING LABORATORY—Advanced clinical practice in speech and hearing therapy; investigation and application of recent research. Prerequisite: Ex.Ed. 405. *Three hours per week. Spring semester. Credit: three semester hours.*

ED. 470. PRACTICUM IN ELEMENTARY SCHOOL TEACHING*—See course description under Education Department.

* Required of all students enrolled in the Exceptional Children Education Division.

GRADUATE COURSES IN EXCEPTIONAL CHILDREN EDUCATION

EX.ED. 503. CLINICAL PROCEDURES IN SPEECH CORRECTION—An advanced practicum, work under supervision with severely speech handicapped children. Prerequisites: Ex.Ed. 308, 513, 523, 533 or equivalent. *Summer session 1958. Credit: six semester hours.*

EX.ED. 504. WORKSHOP IN CURRICULUM FOR CEREBRAL PALSIED CHILDREN—Structured to encourage formulation of realistic curriculum for slow-learning cerebral palsied children in the elementary school grade range. Participants will be required to originate curricular proposals, working under guidance provided by workshop specialists. Prerequisites: Ex.Ed. 328 or equivalent. *Summer session 1958. Credit: six semester hours.*

EX.ED. 524. 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. Prerequisite: Ex.Ed. 308 or equivalent. *Spring 1959. Credit: three semester hours.*

EX.ED. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

EX.ED. 533. SEMINAR IN SPEECH PATHOLOGY—Research studies in the areas of stuttering, voice defects, cleft palate, and cerebral palsy. Prerequisite: Ex.Ed. 308, or equivalent. *Fall 1958. Credit: two semester hours.*

EX.ED. 535. MENTAL MEASUREMENT—Presentation, use and interpretation of mental and performance tests; demonstrations; student participation in giving group psychometric examinations. *Fall semester 1958. Credit: two semester hours.*

EX.ED. 538. UNDERSTANDING THE PROBLEM CHILD IN THE CLASSROOM—Personal and social factors as related to the problem child; case study of an individual pupil and group discussion of report. Enrollment limited to fifteen. Open to graduate students in any division. *Fall semester. Credit: two semester hours.*

EX.ED. 539. THE GIFTED CHILD—Study of the nature and needs of children who are gifted; examination of such provisions as acceleration, partial-segregation, enrichment, special classes; criteria for identifying; implications for classroom teacher. *Summer session 1958. Credit: three semester hours.*

EX.ED. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

EX.ED. 551. PRACTICUM IN EDUCATION OF CHILDREN WITH MENTAL RETARDATION—Observation and individual participation in a class for children with mental retardation; group discussions and experimentation in techniques and materials. *Summer session 1958. Credit: six semester hours.*

EX.ED. 561. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION—Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and administrators of classes of children with mental retardation and for teachers of regular classes who must provide adjustments for slow-learning children. *Spring semester 1959. Credit: two or three semester hours.*

EX.ED. 571. OCCUPATIONAL SKILLS AND ANALYSIS OF JOB AREAS FOR CHILDREN WITH MENTAL RETARDATION—Instruction in the manual skills needed by children with retarded mental development; experience in the techniques needed in making job analyses in the job areas in which the retarded find employment. *Fall semester 1959. Credit: two semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Graduate Division, Education Department. *Summer session 1958 and each semester. Credit: two or three semester hours.*

EX.ED. 591. NATURE AND NEEDS OF CHILDREN WHO PRESENT EXCEPTIONAL PROBLEMS OF LEARNING—Study of the nature and needs of children with mental retardation; examination of the causes and implications of mental deficiency as they affect the home, school and community adjustment of the retarded. *Spring semester 1959. Credit: two or three semester hours.*

GENERAL EDUCATION DIVISION

William D. Baker, Director

Faculty members from the other Divisions of the College teach in the General Education Division.

G.E. 101-102. 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. Required of all students according to divisional curricula. Prerequisite for G.E. 102: G.E. 101. *Three hours per week. Each semester. Credit: six semester hours.*

G.E. 103. MATHEMATICS AND MODERN LIFE—Origin and development of mathematics; mathematical symbolism and language; thought and communication with ideas mathematical; proof and the language of if-then; mathematics of personal finance; approximate numbers and the arithmetic of measurement; principles and relationships in analysis; contributions of mathematics to the arts, sciences, business, industry, and government; growth in personal and social competence through mathematics. Required of all students according to divisional curricula. *Two hours per week. Each semester. Credit: two semester hours.*

G.E. 104. WAYS OF KNOWING—The more important ways of answering the question, "How do you know?"; voting, or polling opinions; discussing, as in forum; intuition; revealed truth, or mystic experience; consistency with common sense and ideas previously accepted; dogmatic authority; and the scientific method of inquiry, education and expert authority. Methodological problems: the functions of concepts, or propositions, and of evidence for propositions. Required of all students according to divisional curricula. *Two hours per week. Each semester. Credit: two semester hours.*

G.E. 105-106. EFFECTIVE COMMUNICATION—The materials and purposes of effective communication; the 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. Required of all freshmen. Prerequisite for G.E. 106: G.E. 105. *Three hours per week. Each semester. Credit: six semester hours.*

G.E. 201. FAMILY LIVING—The family throughout the life cycle; preparation for marriage and early marriage adjustments; planning for family and family life; the family's role in a democratic society; problems in helping children mature socially, economically, emotionally, and morally; the effect of a changing social and economic order on family disorganization and reorganization. Required of all students according to divisional curricula. *Two hours per week. Each semester. Credit: two semester hours.*

G.E. 203-204. MAN AND HIS NATURAL ENVIRONMENT—How man's life is affected by the astronomical characteristics of the earth and solar system; the structure and changing surface of the earth; atmospheric and meteorological changes; distribution, use, and control of matter and energy; man's biological nature and his inter-relationships with other organisms; use and conservation of natural resources. Required of all students according to divisional curricula. Prerequisite for G.E. 204: G.E. 203. *Four hours per week, including laboratory. Each semester. Credit: six semester hours.*

G.E. 205. ARTS IN LIVING—A study of contemporary and historic art forms as they apply to everyday living. An analysis of the individual significance and interrelatedness of architecture, clothing design, the interpretive dance, industrial design, the graphic arts, music, painting, sculpture, and the theater

arts. Participation in a variety of creative activities. Required of all Art Education freshmen. Elective for students in other divisions. *Four hours per week. Each semester. Credit: four semester hours.*

G.E. 301-302. IDEAS OF MAN AND HIS WORLD IN LITERATURE—The development of man's ideas as seen in the writings of the past and present in English and translations from other languages; the literary treatment of more specific ideas like love, evil, progress, heroism, God, man, external environment, and society. Required of all students according to divisional curricula. *G.E. 301 three hours per week; G.E. 302 two hours per week. Each semester. Credit: five semester hours.*

G.E. 401. 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 ideals and actions have come. Required of all students according to divisional curricula. *Three hours per week. Each semester. Credit: three semester hours.*

HOME ECONOMICS EDUCATION DIVISION

Margaret A. Grant, Director

Professors Barkley, Roudebush, Stewart, Swayne; Associate Professors Adams, Buddenhagen, Butler, Cawley, Weaver; Assistant Professors Aspray, Batchelder, Cragun.

H.EC. 90. CLOTHING—Selection and construction of a simple garment; use of sewing machine. Required of some Home Economics freshmen as determined by a written and practical test in clothing. *Two hours per week. First semester. No credit.*

H.EC. 91. FOODS AND NUTRITION—Basic breakfast and luncheon planning, management, table service; product standards, ingredients and procedures. Required of some Home Economics freshmen as determined by a written test in foods. *Two hours per week. Each semester. No credit.*

H.EC. 95. FRESHMAN SEMINAR—Orientation to Home Economics. Required of Home Economics freshmen. *One hour per week. Second semester. No credit.*

H.EC. 101-102. INTRODUCTION TO HOME ECONOMICS—Clothing and textiles, foods and nutrition, family living and management. Students rating high in tests in foods and clothing and who have had good practical

experience may be exempt from the foods and clothing units and permitted to take advanced work in those fields. Required of Home Economics freshmen. Prerequisites: H.Ec. 90 and H.Ec. 91 or exemption from them. *Six hours per week. Each semester. Credit: four semester hours.*

H.EC. 203. THE CHILD IN THE FAMILY—The study of child development and guidance in the home; observation and participation in nursery schools and in the three-year-old group in the Campus School; parent-child relationships; guidance in working with young children. Required of Home Economics sophomores. Prerequisite: Ed. 151-152. *Five hours per week. Each semester. Credit: three semester hours.*

H.EC. 204. CLOTHING AND COSTUME DESIGN—Fundamental principles of selection and construction of garments; costume design; textiles. Required of Home Economics sophomores. Prerequisite: H.Ec. 102 or exemption from clothing unit. *Six hours per week. Each semester. Credit: four semester hours.*

H.EC. 205. FOODS AND NUTRITION—Principles of nutrition related to individual and family needs; techniques, scientific principles and economic aspects underlying preparation of food products; food preservation. Required of Home Economics sophomores. Prerequisites: H.Ec. 102 or exemption from food units and Sci. 151-152. *Six hours per week. Each semester. Credit: four semester hours.*

H.EC. 206. FAMILY HEALTH AND HOME NURSING—Facts and procedures essential in safeguarding the health of the individual and family; laboratory work in home nursing; community agencies concerned with family health. Required of Home Economics sophomores. *Three hours per week. Each semester. Credit: two semester hours.*

H.EC. 303. ECONOMICS OF THE HOUSEHOLD—Personal and family financial planning in relation to economic conditions; current problems of consumers; evaluation of aids for consumers. Required of Home Economics juniors. *Four hours per week. Each semester. Credit: three semester hours.*

H.EC. 312. MARRIAGE AND FAMILY RELATIONSHIPS—Family relationships of the individual throughout the family life cycle; emotional development, preconceived roles, personality, environmental, and background factors in relation to marriage adjustment. Required of Home Economics juniors and elective for students not majoring in Home Economics. *Three hours per week. Each semester. Credit: three semester hours.*

H.EC.ED. 323. HOME ECONOMICS METHODS AND MATERIALS—Problems of school administration and curriculum in both general and home-making education; principles of learning, teaching and evaluating; techniques in selecting, organizing, and using instructional materials; observation and participation. Grade of C is a prerequisite to H.Ec.Ed. 421. Required of Home

Economics juniors. Prerequisites: H.Ec. 203, 204, 205. *Nine hours per week. Each semester. Credit: six semester hours.*

H.EC. 325. CLOTHING AND COSTUME DESIGN—Application of principles of costume selection, design and advanced construction techniques. Prerequisite: H.Ec. 204 or 410. Required of Home Economics juniors who do not take H.Ec. 327. *Five hours per week. Each semester. Credit: three semester hours.*

H.EC. 326. FOODS AND NUTRITION—Techniques of demonstrations related to food preparation and nutrition; preparation and service for special occasions and groups other than family size; educational program in school lunch. Prerequisite: H.Ec. 205 or 411. Required of Home Economics juniors who do not take H.Ec. 328. *Five hours per week. Each semester. Credit: three semester hours.*

H.EC. 327. CLOTHING AND COSTUME DESIGN—Alteration of patterns to adapt them to individual needs; designing and modeling garments, using dress forms and flat pattern methods. Prerequisite: H.Ec. 204 or 410. Required of Home Economics juniors who do not take H.Ec. 325. *Five hours per week. Each semester. Credit: three semester hours.*

H.EC. 328. FOODS AND NUTRITION—Family meal planning, preparation and service; factors influencing meal plans; economics, habit, nutrition; use of time and energy; food preparation in relation to national, regional, racial and religious customs; current trends in nutrition. Prerequisite: H.Ec. 205 or 411. Required of Home Economics juniors not taking H.Ec. 326. *Five hours per week. Each semester. Credit: three semester hours.*

H.EC. 401. HOME MANAGEMENT—Five-week study of home living and home management problems; decision making in relation to the use of time, energy, money and material goods; group social and recreational life; work with community organizations; supplementary experiences to meet needs of individual students. Students defray own expenses. Prerequisites: H.Ec. 205 and 303. Required of all Home Economics seniors. *Twenty hours per week. Each semester. Credit: four semester hours.*

H.EC. 405. HOUSEHOLD EQUIPMENT—The selection, operation, care, and arrangement of household equipment; problems of equipment with respect to economy, efficiency, safety and comfortable living. Required of Home Economics seniors. *Four hours per week. Each semester. Credit: three semester hours.*

H.EC. 407. HOUSING AND HOME PLANNING—Relation of housing to family and community welfare; standards of family housing; costs of housing in urban and rural areas; selection, construction, and renovation of furnishing for homes. Required of Home Economics seniors. Prerequisites: Art 323, H.Ec. 303. *Five hours per week. Each semester. Credit: four semester hours.*

H.EC. 410. CLOTHING—Problems of individual interest in textiles; clothing selection, buying, care, repair, restyling, and construction. Elective for students not majoring in Home Economics. *Four hours per week. Each semester. Credit: three semester hours.*

H.EC. 411. FOOD AND NUTRITION—Laboratory preparation and service of basic foods and meals to meet individual and family needs; basic ingredients and procedures; personal nutrition. Elective for students not majoring in Home Economics. *Three hours per week. Each semester. Credit: three semester hours.*

H.EC.ED. 421. TEACHING PRACTICUM—New York State program for homemaking education and its adaptation to local situation; teaching experience required in two cooperating schools outside of Buffalo; residence in school community required during student teaching; student shares in non-instructional as well as instructional responsibilities of the teacher; group and individual conferences of all student teachers held regularly at the College; students defray own travel and residence expenses. Required of Home Economics seniors. Prerequisite: H.Ec.Ed. 323, with grade of C or higher; cumulative average of C or higher in college courses. *Twenty hours per week. Each semester. Credit: nine semester hours.*

H.EC. 422. SENIOR SEMINAR—Orientation to problems of Home Economics teaching: placement, salary schedules, tenure, professional organization, teacher ethics. Required of Home Economics seniors. *As scheduled. Each semester. No credit.*

GRADUATE COURSES IN HOME ECONOMICS

H.EC. 500. SEMINAR IN HOME ECONOMICS EDUCATION—Recent research and problems in the field of Home Economics Education; special problems selected by individual students from the area of Home Economics Education. *Credit: three semester hours.*

H.EC. 503. FAMILY RELATIONSHIPS—The family viewed longitudinally; developmental tasks of family members at each stage of the family life cycle; research on marriage success and family crises; attitudes, values, and standards regarding family living. *Credit: three semester hours.*

H.EC. 506. SEMINAR IN HOME MANAGEMENT—Newer developments in the field of managing the home; problems met in teaching management in secondary and adult classes; individual work on problems in accordance with student needs. *Credit: three semester hours.*

H.EC. 512. WORKSHOP IN HOUSEHOLD EQUIPMENT FOR HOME ECONOMICS TEACHERS—Survey and evaluation of developments in large and small equipment used in homes and schools; field trips, laboratory and demonstrations. *Credit: three semester hours.*

INDUSTRIAL ARTS EDUCATION DIVISION

Kenneth W. Brown, Director

Professors Callan, Cook, Fontana, Neuthardt, Russell; Associate Professors Ball, Brossman, Grabau, Harlan, Morrice, Steffen, Steinzor, Waagen; Assistant Professors Bowers, Cappiello, Meyer, Miller, Palmeter, Poleszak.

I.A. 101. **ELECTRICITY**—Basic electrical and electronic principles; generation, transmission, and use of electric power; electro-chemistry; transportation and communication; operation, service, and repair of electrical devices and appliances; experimental circuit work and construction of projects suitable for the junior-senior high school. Required of Industrial Arts sophomores. Present curriculum—*Twelve hours per week. Each semester. Credit: five semester hours.* Revised curriculum—*Ten hours per week. Each semester. Credit: four semester hours.*

I.A. 102. **WOODWORK**—Benchwork, cabinet making, pattern making, upholstering, carpentry, wood finishing, model making, boat building, aircraft construction; hand and machine tool methods; care, and maintenance of equipment. Required of Industrial Arts freshmen. *Ten hours per week. Each semester. Credit: four semester hours.*

I.A. 103-104. **MECHANICAL DRAWING**—Sketching; working, schematic and pictorial drawings; sections, auxiliaries, developments, and cams. Required of Industrial Arts freshmen. *Five hours per week. Each semester. Credit: two hours each semester.*

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. Required of Industrial Arts freshmen. *Three hours per week. Each semester. Credit: two semester hours.*

I.A. 201. **TRANSPORTATION**—Common means of transportation: the bicycle, motorcycle, automobile, airplane, railroad, and ship; projects involving construction, planning, designing, trouble-hunting, periodic adjustment, maintenance; teaching methods and techniques. Required of all Industrial Arts students. Present curriculum—*Twelve hours per week. Each semester. Credit: five semester hours.* Revised curriculum—*Ten hours per week. Each semester. Credit: four semester hours.*

I.A. 202. **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 metalwork. Required of Industrial Arts freshmen. *Ten hours per week. Each semester. Credit: four semester hours.*

I.A. 205. **SMALL STRUCTURE PLANNING**—Locations, restrictions, building codes, facilities, floor plans, elevations, and specifications of dwellings; materials, equipment, and methods of construction. Elective for Industrial Arts and Art Education students. *Four hours per week and assigned field trips. Credit: three semester hours.*

I.A. 301. **GRAPHIC ARTS**—Typesetting, composition, imposition, paper estimating and cutting, presswork, bookbinding, rubber stamp making, block printing, silk screen printing, duplicating, photography, newspaper production, photo-engraving, and paper making. Required of Industrial Arts juniors. Present curriculum—*Twelve hours per week. Each semester. Credit: five semester hours.* Revised curriculum—*Ten hours per week. Each semester. Credit: four semester hours.*

I.A. 302. **GENERAL SHOP**—Planning and presentation of demonstrations; selection, design, and planning of projects; selection and construction of teaching aids; general shop organization and administration. Required of Industrial Arts seniors. *Twelve hours per week. Each semester. Credit: five semester hours.*

I.A. 303. **INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL**—Hand tool processes in woodworking, metalwork, textiles, ceramics, leather, and handcrafts. Group and individual projects. Required of Elementary Education juniors and seniors. *Four hours per week. Each semester. Credit: three semester hours.*

I.A. 305. **OCCUPATIONAL SKILLS FOR EXCEPTIONAL 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. *Four hours per week. Fall semester. Credit: three semester hours.*

I.A. 311. **PRINCIPLES AND PRACTICES OF INDUSTRIAL ARTS**—Methods of teaching, instructional materials, evaluation of pupil growth, library and planning centers, museums, exhibits, records, personnel systems. Required of Industrial Arts juniors. Prerequisite: I.A. 111, Ed. 151-152. *Three hours per week. Each semester. Credit: three semester hours.*

I.A. 312. **PRINCIPLES AND PRACTICES OF INDUSTRIAL ARTS**—School shop administration, program and course of study development, record and filing systems, shop planning, safety, inter-departmental and community relations, education law. Required of Industrial Arts juniors. *Three hours per week. Each semester. Credit: three semester hours.*

I.A. 353. **ADVANCED MECHANICAL DRAWING**—Advanced study in technical sketching; drawing machine parts; topographical drawing; developments, cams and gears. Elective for Industrial Arts students. Prerequisite: I.A. 103-104. *Seven hours per week. Credit: three semester hours.*

I.A. 363. ADVANCED TEXTILES—Advanced work in textile design, fiber preparation, dyeing, weaving, and surface decoration; Textile testing, both physical and chemical. Elective for Industrial Arts students. Prerequisite: I.A. 407. *Seven hours per week. Credit: three semester hours.*

I.A. 402. ADVANCED 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. Elective for Industrial Arts students. Prerequisite: I.A. 301. *Seven hours per week. Credit: three semester hours.*

I.A. 403. ADVANCED 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. Elective for Industrial Arts juniors and seniors. Prerequisite: I.A. 102. *Seven hours per week. Credit: three semester hours.*

I.A. 404. ADVANCED ELECTRICITY—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 radio receivers and electronic equipment. Elective for Industrial Arts students. Prerequisite: I.A. 101. *Seven hours per week. Credit: three semester hours.*

I.A. 405. ADVANCED 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. Elective for Industrial Arts students. Prerequisite: I.A. 202. *Seven hours per week. Credit: three semester hours.*

I.A. 406. CERAMICS—Materials, processes and products of the ceramic field; clay preparation; mold making, slip casting; throwing and turning; tile making; decorating and glazing; firing. Required of Industrial Arts freshmen. Elective for students of other divisions. Present curriculum—*Seven hours per week. Each semester. Credit: three semester hours.* Revised curriculum—*ten hours per week. Each semester. Credit: four semester hours.*

I.A. 407. TEXTILES—Fibers, processes and products of the textile industry; weaving; dyeing; surface treatment; and finishing of fabrics. Required of Industrial Arts students. Elective for students of other divisions. Present curriculum—*Five hours per week. Each semester. Credit: two semester hours.* Revised curriculum—*Ten hours per week. Each semester. Credit: four semester hours.*

I.A. 408. ADVANCED CERAMICS—Study in selected areas; hand building; performance on the potter's wheel; mass production methods; decoration; body and glaze composition; kilns and firing. Elective for all students. Prerequisite: I.A. 406. *Seven hours per week. Credit: three semester hours.*

I.A. 411. STUDENT TEACHING AND CONFERENCE—Full-time student teaching in selected public schools with a master teacher and guidance of a college staff member; assuming responsibilities in the total school program and community activities; developing and organizing instructional materials; devising and administering classroom procedures; evaluating pupil progress and maintaining pupil records; keeping records and inventories on materials and equipment; periodic visits to different schools. Required of Industrial Arts seniors. Prerequisites: 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. 311. *Each semester. Credit: fifteen semester hours.*

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. Required for Industrial Arts Seniors. Prerequisite: I.A. 411. *Seven hours per week. Credit: three semester hours.*

I.A. 471. ADVANCED TRANSPORTATION—Advanced study of the areas of transportation with emphasis on theory of operation of mechanisms (automatic, manual and remote control); use of electronic testing equipment, evaluation of test results; design, construct, and repair of transportation equipment; use of new materials. Elective for Industrial Arts students. Prerequisite: I.A. 201. *Seven hours per week. Credit: three semester hours.*

GRADUATE COURSES IN INDUSTRIAL ARTS

I.A. 500. WORKSHOP IN INDUSTRIAL ARTS—Problems in organizing and operating Industrial Arts programs at the elementary, junior, senior high school and adult levels. *Fall semester. Credit: two semester hours.*

I.A. 501. SEMINAR IN INDUSTRIAL ARTS—Discussion, research, reports on individual and group problems in Industrial Arts education. Required of Industrial Arts students registered for the degree of Master of Science. *Spring semester. Credit: two semester hours.*

I.A. 502. FIELD STUDIES RELATED TO INDUSTRIAL ARTS EDUCATION—Individual and group studies of industrial activities in the Niagara Frontier; the woodworking and fabricating trades; metal industries; plastic and fibre products; graphic arts; electrical, ceramic, airplane and automotive manufacture; conferences with representatives of industry and various labor organizations. *Summer session 1958, fall semester. Credit: two or three semester hours.*

I.A. 503. GUIDANCE SEMINAR IN LIFE ADJUSTMENT EDUCATION—Survey and evaluation of the educational movements leading to the Prosser Resolution; effects of the Life Adjustment Movement upon the schools in the various subject matter areas; implementation of the movement; reports of adaptation plans made in teaching situations. *Fall semester. Credit: two semester hours.*

I.A. 507. SCHOOL SHOP PLANNING—Problems involved in planning new industrial arts shops or the remodeling of older shops: space allotments, area planning, service features, selection and placement of equipment, writing specifications, shop plans. *Fall semester. Credit: two semester hours.*

I.A. 517. ELECTRONICS—Electronics in the junior and senior high school industrial arts program; advanced electronic theory and practice in communications; development of instructional materials, demonstration equipment, projects and visual aids. I.A. 517A. *Fall semester. Credit: two semester hours.* I.A. 517B. *Credit: two semester hours.*

I.A. 519. NEW METHODS AND TECHNIQUES IN WOODWORK—Carving, appliques and inlays; plastic finishes, wood substitutes, wood bleaches and other more recent materials and techniques of the wood industries; individual problems of the in-service teacher. *Spring semester. Credit: two semester hours.*

I.A. 520. DESIGN IN INDUSTRIAL ARTS—Graduate study of design as applied to industrial arts. Research, discussion and practice in originating designs for all areas of industrial arts technical study. Analysis of designs with discussions for suggested redesign. *Spring semester. Credit: two semester hours.*

I.A. 521. NEW METHODS AND TECHNIQUES IN METALWORKING—New materials and their possibilities for industrial arts activities; investigation of modern industrial processes in metalworking and their implications for the teaching of Industrial Arts. *Spring semester. Credit: two semester hours.*

I.A. 523. INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL—Functions of Industrial Arts in the elementary school; study of activities for the various grade levels; problems of equipment, organization, supplies; planning and executing units of work. *Spring semester. Credit: two semester hours.*

I.A. 524. EVALUATION IN INDUSTRIAL ARTS—General principles of evaluation; construction and use of various informal devices and techniques of evaluation applicable to industrial arts; selection and use of appropriate standardized instruments of evaluation; observation, rating scales, anecdotal records, personnel systems, and the industrial arts project; interpreting, recording and using the results of evaluation for the improvement of instruction. *Spring semester. Credit: two semester hours.*

I.A. 525. THESIS—An individual investigation of an original problem to be submitted in typewritten form according to directions given by the Graduate Division. *Each semester. Credit: six semester hours.*

I.A. 550. PROJECT—A study undertaken by one or more individuals on a problem of special interest; must be submitted in acceptable form according to directions given by the Graduate Division. *Each semester. Credit: four semester hours.*

ED. 575. RESEARCH METHODS AND TECHNIQUES—See description under Education Department. *Summer session 1958. Each semester. Credit: two or three semester hours.*

ORIENTATION

OR. 10. ORIENTATION—Designed to acquaint new students with campus facilities, morés, policies and regulations and to assist them in making the best possible personal adjustment to college life. Members of each class determine areas of chief concern which they wish to explore. Required of all students for graduation. *One hour per week. Each semester. No credit.*

STATE UNIVERSITY OF NEW YORK

LIBERAL ARTS COLLEGE

Harpur College at Endicott

MEDICAL COLLEGES

State University Downstate Medical Center in New York City
State University Upstate Medical Center in Syracuse

TEACHERS COLLEGES

State University College for Teachers at Albany
State University Teachers College at Brockport
State University College for Teachers at Buffalo
State University Teachers College at Cortland
State University Teachers College at Fredonia
State University Teachers College at Geneseo
State University Teachers College at New Paltz
State University Teachers College at Oneonta
State University Teachers College at Oswego
State University College on Long Island at Oyster Bay
State University Teachers College at Plattsburgh
State University Teachers College at Potsdam

OTHER PROFESSIONAL COLLEGES

State University College of Forestry at Syracuse University
State University Maritime College at Fort Schuyler
State University College of Ceramics at Alfred University
New York State College of Agriculture at Cornell University
New York State College of Home Economics at Cornell University
New York State School of Industrial and Labor Relations at Cornell University
New York State Veterinary College at Cornell University

AGRICULTURAL AND TECHNICAL INSTITUTES

State University Agricultural and Technical Institute at Alfred
State University Agricultural and Technical Institute at Canton
State University Agricultural and Technical Institute at Cobleskill
State University Agricultural and Technical Institute at Delhi
State University Agricultural and Technical Institute at Farmingdale
State University Agricultural and Technical Institute at Morrisville

COMMUNITY COLLEGES

(Locally-sponsored two-year colleges under the program of State University)

Auburn Community College at Auburn
Bronx Community College at New York City
Broome Technical Community College at Binghamton
Corning Community College at Corning
Dutchess Community College at Poughkeepsie
Erie County Technical Institute at Buffalo
Fashion Institute of Technology at New York City
Hudson Valley Technical Institute at Troy
Jamestown Community College at Jamestown
Mohawk Valley Technical Institute at Utica
New York City Community College of Applied Arts and Sciences
Orange County Community College at Middletown
Staten Island Community College at Staten Island
Westchester Community College at White Plains

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