

THE CALIFORNIA BULLETIN



STATE TEACHERS COLLEGE

1950 - 1951

PUBLISHED BY THE COLLEGE

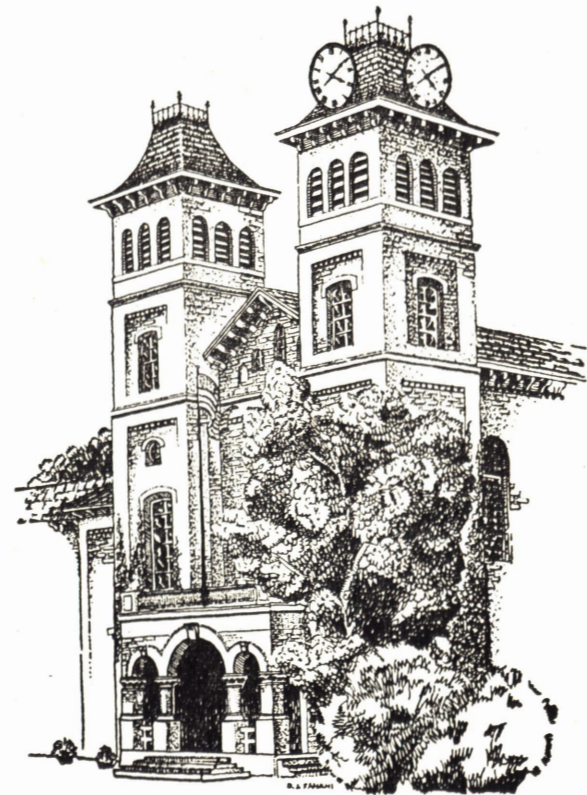
CALIFORNIA, PENNSYLVANIA

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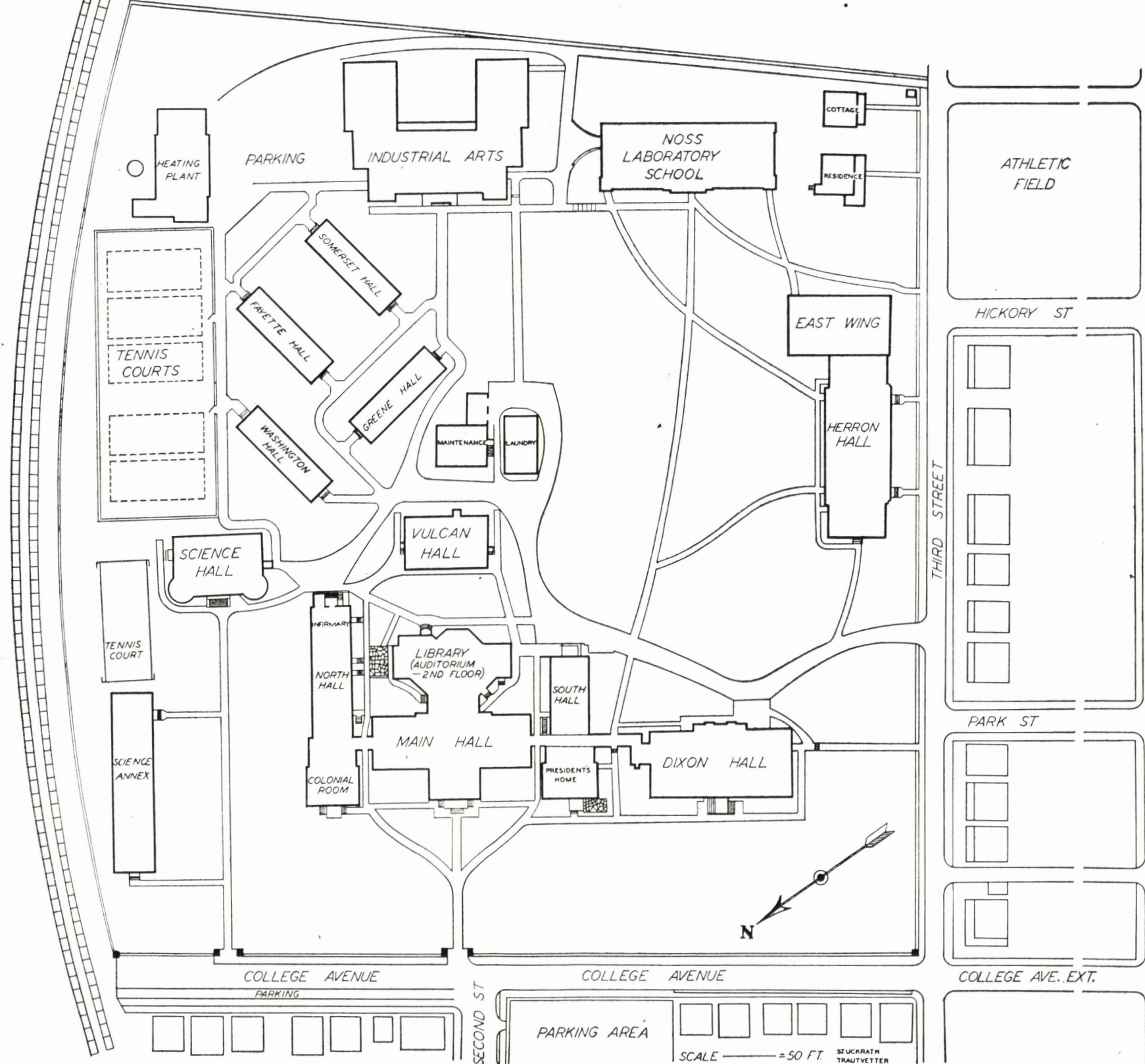
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THE STATE TEACHERS COLLEGE, CALIFORNIA, PENNA.

CALENDAR FOR 1950-51

CALENDAR FOR 1950

JULY, 1950

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CALENDAR FOR 1951

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MAY, 1951

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JUNE, 1951

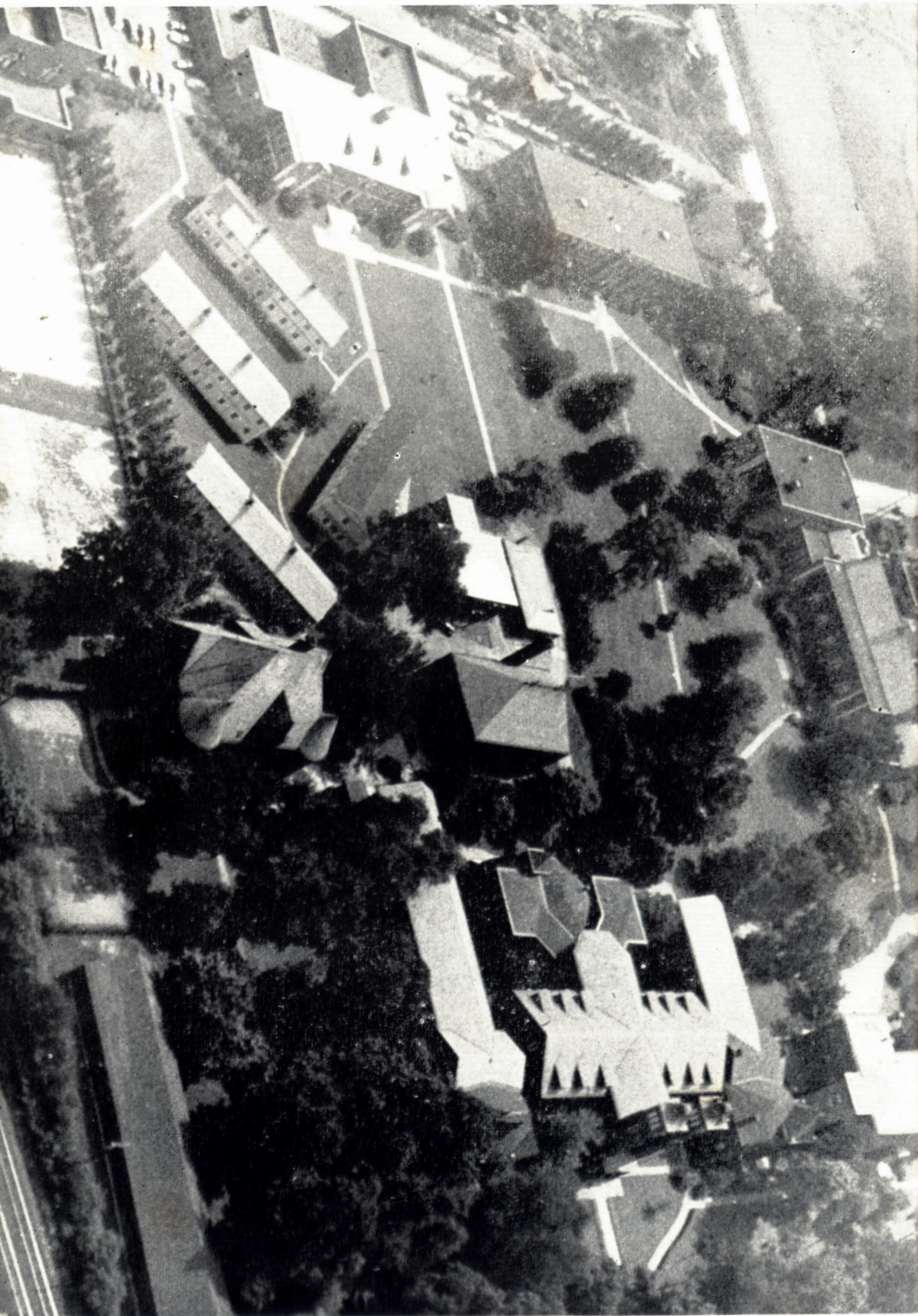
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and 1:00 P. M. to 4:30 P. M.

Saturday, 8:00 A. M. to 12:00 M.

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STATE TEACHERS COLLEGE
CALIFORNIA, PENNSYLVANIA

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COLLEGE CALENDAR

I. THE SUMMER SESSIONS, 1950

A. THE PRE-SESSION	
Session begins	June 5
Session ends	June 23
B. THE SIX-WEEK SESSION	
Session begins	June 26
Session ends	August 4
C. THE POST-SESSION	
Session begins	August 7
Session ends	August 25

II. THE ACADEMIC YEAR, 1950-1951

A. THE FIRST SEMESTER	
Registration of Freshmen	September 11
Registration of Upperclassmen	September 12
Classes begin at 8:00 a. m.	September 13
Thanksgiving Recess begins at the	
close of classes	November 21
Thanksgiving Recess ends at 8:00 a. m.	November 27
Christmas Recess begins at noon	December 21
Christmas Recess ends at 8:00 a. m.	January 3
First Semester ends at the close of classes	January 18
B. THE SECOND SEMESTER	
Registration	January 23 and 24
Classes begin at 8:00 a. m.	January 25
Easter Recess begins at the close of classes	March 16
Easter Recess ends at 8:00 a. m.	March 28
Alumni Day	May 26
Baccalaureate Services	May 27
Commencement	May 28

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* Resigned February 1, 1950

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During 1950-1951

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*(1928) Ph.B., Bucknell University; M.A., Ph.D., Teachers College, Columbia University; LL.D., Bucknell University.

PAUL N. WALKER, *Dean of Instruction*

(1930) B.S., Bucknell University; M.S., University of Pittsburgh.

EMERITI

ELLA E. BERNSTORFF, *Emeritus Dean of Women*

*(1930-1945) A.B., Southwestern College; M.A., University of Kansas; M.A. Teachers College, Columbia University.

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1922-1939) B.L.I., Emerson College.NEVA W. MONTGOMERY (Mrs.), *Emeritus Professor of Elementary Education*

(1929-1947) B.S., M.A., George Peabody College.

SAMUEL M. NEAGLEY, *Emeritus Professor of Education*

(1927-1947) A.B., Franklin and Marshall College; M.A., Columbia University; Ph.D., University of Pittsburgh.

ELON G. SALISBURY, *Emeritus Professor of Mathematics*

(1930-1945) B.S., Union College; M.A., Ph.D., George Washington University.

ELMER E. SCHREINER, *Emeritus Professor of Physical Education*

(1921-1941) B.S., Juniata College.

LOUISE M. WARD, *Emeritus Manager of the Bookstore*

* * * * *

FREDERICK A. ATKINS, *Mathematics*

*(1946) B.S., M.A., Columbia University

HARRY E. BARRETT, *Mathematics*

(1947) B.A., M.S., Syracuse University.

CYNTHIA E. BENZING, *Dean of Women*

(1946) A.B., Lebanon Valley College; M.A., Columbia University.

O. RAY BONTRAGER, *Education*

(1936) B.A., M.A., Ph.D., University of Iowa.

JAMES H. BOWLEN, *Speech Correction*

(1946) B.A., West Virginia University; M.A., Columbia University.

WALTER A. BOWMAN, *Industrial Arts*

(1948) B.S., State Teachers College at California, Pennsylvania.

EARL J. BRUCE, *Coach of Football; Mathematics (Part-time)*

(1946, Assigned from the Pennsylvania State College) B.S., Washington and Jefferson College.

* Year of appointment.

MERRILL G. CAMPBELL, *Industrial Arts*

*(1948) B.S., State Teachers College at California, Pennsylvania; Ed.M., University of Pittsburgh.

EMMA C. CARROLL (Mrs.), *Education*

(1948) B.S., M.A., Ohio State University.

HENRIETTA CARROLL, *English; Modern Language*

(1926) A.B., Allegheny College; M.A., University of Pittsburgh.

RALPH F. CHARNEY, *Industrial Arts*

(1946) B.S., State Teachers College at California.

SHRIVER L. COOVER, *Director of Industrial Arts*

(1930) B.S., Geneva College; M.A., D.Ed., University of Pittsburgh.

CORR B. COOVER (Mrs.), *English (Part-time)*

(1949) B.L., Northwestern University.

VIRGINIA W. CRANDALL (Mrs.), *Speech*

(1948) A.B., Parsons College; M.A., State University of Iowa.

EDWARD H. CUBBON, *Health and Physical Education; Coach of Basketball and Baseball*

(1941) B.S., M.A., West Virginia University.

ANGUS H. DOUPLE, *Industrial Arts*

(1946) B.S., State Teachers College at Kutztown, Pennsylvania; M.Ed., the Pennsylvania State College.

J. CALVIN FLEMING, *Physics, Physical Science*

(1948) B.A., College of Wooster; M.Litt., University of Pittsburgh.

THOMAS M. GILLAND, *Director of Student Teaching and Placement*

(1931) A.B., Ursinus College; M.A., Teachers College, Columbia University; Ph.D., University of Chicago.

NANCY W. GRIMES (Mrs.), *Geography (Part-time)*

(1946) A.B., M.A., University of Nebraska.

EDWIN E. HALSTEAD, *Music*

(1924) B.S., M.A., New York University.

GEORGE E. HARDING, *Geography*

(1927) B.S., Ph.G., Fremont College; A.B., Nebraska Wesleyan University; M.A., University of Nebraska.

GEORGE S. HART, *Social Studies*

(1938) A.B., M.A., Ph.D., University of Pittsburgh.

CLYDE M. HARTMAN, *Chemistry*

(1948) B.S., M.Ed., University of Pittsburgh.

BESS M. HAZEN, *Art*

(1926) A.B., Carnegie Institute of Technology; M.A., University of Pittsburgh.

EUGENE J. HESTER, *Health and Physical Education; Assistant Coach of Football and Basketball*

(1946) B.S., M.S., West Virginia University.

* Year of appointment.

- LOUISE A. HILDRETH, *Health and Physical Education*
*(1926) B.S., Syracuse University; M.A., New York University.
- AARON J. HOOVER, *Industrial Arts*
(1936) B.S., State Teachers College at California; M.Ed., University of Pittsburgh.
- JACK F. HOYES, *English*
(1946) B.S., State Teachers College at California; M.Ed., University of Pittsburgh.
- CLAIR MARTEL HUGHEY, *English*
(1928) A.B., Ohio University; M.A., Ohio State University.
- ELIZABETH JOHNSTON, *English*
(1947) A.B., West Virginia University; M.Litt., Ph.D., University of Pittsburgh.
- ROBERT M. KECK, *Dean of Men*
(1935) B.S., Toledo University; M.A., Ohio State University.
- ISAAC CLAYTON KELLER, *English*
(1923) A.B., Albright College; M.A., Harvard University; Ph.D., University of Pittsburgh.
- FRANK W. LENOX, *Social Studies*
(1947) A.B., Westminster College; M.A., The Pennsylvania State College.
- JOHN F. LEWIS, *Biology, Botany*
(1945) B.S., Susquehanna University; M.Litt., University of Pittsburgh.
- HARRY L. MONROE, *Physical Science and Mathematics*
(1946) B.S., Grove City College; M.Ed., University of Pittsburgh.
- JOHN WESLEY NEIL, *Industrial Arts*
(1948) B.S., State Teachers College at California; M.Ed., University of Pittsburgh.
- THEODORE J. NEMETH, *Health and Physical Education; Assistant Football and Swimming Coach*
(1946) B.S., M.Ed., The Pennsylvania State College.
- JOHN G. RANKIN, *Military Science*
(1948) Staff Sergeant, A.A.F., B.S., State Teachers College at California.
- B. LOUISE RAKESTRAW, *English*
(1946) A.B., M.A., Bucknell University.
- GEORGE H. ROADMAN, *Social Studies*
(1948) B.S., State Teachers College at California.
- EMMA SACCO, *Social Studies; Spanish*
(1928) B.S., New York University; M.A., University of Chicago.
- IRVIN J. SHUTSY, *Industrial Arts*
(1948) B.S., State Teachers College at California; M.Ed., University of Pittsburgh.
- ALEXANDER R. SMOYER, *Industrial Arts*
(1946) B.S., State Teachers College at California, Pennsylvania.

* Year of appointment.

- HUBERT EDWARD SNYDER, *Biology; Zoology*
*(1949) B.S., M.S., Pennsylvania State College.
- ANTHONY T. STAVASKI, *Industrial Arts*
(1935) B.S., Fitchburg State Teachers College; M.Ed., University of Pittsburgh.
- JOHN F. TAYLOR, *Education; Psychology*
(1949) B.S., State Teachers College at East Stroudsburg; M.Ed., Ph.D., Pennsylvania State College.
- HAROLD W. TRAISTER, *Education*
(1947) A.B., M.A., D.Ed., University of Pittsburgh.
- FREDERICK J. WALTER, *Military Science*
(1949) Master Sergeant, U. S. Army.
- ARTHUR C. WENZEL, *Industrial Arts*
(1946) B.S., New Jersey State Teachers College; M.Ed., Rutgers University.
- CLAIR B. WILSON, *Psychology; Education*
(1926) B.S., Grove City College; M.A., Ohio State University.
- MALVERN R. WOLFE, *Social Studies*
(1947) B.S., State Teachers College at Slippery Rock; M.A., University of Pittsburgh.

 THE LABORATORY SCHOOLS

- THOMAS M. GILLAND, *Director of Student Teaching and Placement*
*(1931) A.B., Ursinus College; M.A., Columbia University; Ph.D., University of Chicago.
- THEODORE B. NOSS LABORATORY SCHOOL
- MARIE T. ESCHER, *Kindergarten*
(1922) B.S., M.A., University of Pittsburgh.
- DOROTHY M. LOWMAN, *Grade One*
(1948) B.S., State Teachers College at California.
- LILLIAN M. BASSI (Mrs.), *Grade Two*
(1949) B.S., State Teachers College at California.
- ADA K. MARSH (Mrs.), *Grade Three*
(1945) B.S., State Teachers College at California.
- MARY C. KING (Mrs.), *Grade Four*
(1936) B.S., State Teachers College at California, M.Ed., University of Pittsburgh.
- MERRELL E. HOLMAN (Mrs.), *Grade Five*
(1947) B.S., State Teachers College at California.
- ANN P. LATTA (Mrs.), *Grade Six*
(1949) B.S., State Teachers College at California.
- ROSE GRECO HUGHES (Mrs.), *Special Room*
(1938) B.S., State Teachers College at California.

* Year of appointment.

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B.S., Grove City College
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California
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- CHARLEROI HIGH SCHOOL
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Pittsburgh

- AVONWORTH HIGH SCHOOL
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Industrial Arts
B.S., State Teachers College at
California; M.Ed., Pennsylvania
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B.S., State Teachers College at
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Columbia University
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Industrial Arts
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Industrial Arts
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Industrial Arts
B.S., M.Ed., University of Pitts-
burgh
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Industrial Arts
B.S., M.Ed., University of Pitts-
burgh
- JOHN H. KUDLIK,
Industrial Arts
B.S., State Teachers College at
California
- HERBERT A. LEWIS,
Industrial Arts
B.S., State Teachers College at
California; M.Ed., University of
Pittsburgh
- E. A. LIBERATOR,
Industrial Arts
B.S., M.Ed., University of Pitts-
burgh
- JOHN L. MILLER,
Industrial Arts

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GROVER C. ROBBINS,
Industrial Arts
B.S., Carnegie Institute of Technology; M.Ed., University of Pittsburgh

WENDEL A. SWARTZ,
Industrial Arts
B.S., Bucknell University; M.Ed., University of Pittsburgh; L.L.B., Duquesne University

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Industrial Arts

ALBERT H. VOGT,
Industrial Arts

AUGUST K. WINTERLING,
Industrial Arts
B.S., M.Ed., University of Pittsburgh

JOHN A. WINTERLING,
Industrial Arts
B.S., M.Ed., University of Pittsburgh

PRIVATE INSTRUCTION IN MUSIC

CHARLES VEON, *Director, piano*
Mus. D., New York Conservatory of Music; L.A.B., The Royal Schools of Music, London.

EDWIN E. HALSTEAD, *Voice*
B.S., M.A., New York University.

JOHN WERTON, *Piano*
B.S., Columbia University.

COMMITTEES OF THE FACULTY

for the year 1950-51

*The President of the College is an ex-officio member
of all Committees*

ADMISSIONS AND SCHOLARSHIP

PAUL N. WALKER, *Chairman*

SHRIVER L. COOVER	GEORGE S. HART
EDWARD H. CUBBON	ISAAC C. KELLER
EDWIN E. HALSTEAD	CLAIR B. WILSON
GEORGE E. HARDING	IRENE ADAMS

ASSEMBLY

EDWIN E. HALSTEAD, *Chairman*

CYNTHIA E. BENZING	ANTHONY BELLINI '50
JAMES H. BOWLEN	EARL MARVEL, '51
VIRGINIA W. CRANDALL (MRS.)	JOHN C. MARTIN '52
PAUL N. WALKER	JOHN GAZLEY '53

COLLEGE BOOK ROOM

ROBERT M. STEELE, *Chairman*

GEORGE S. HART	LILLIAN C. STEWART (MRS.)
	PAUL N. WALKER

CURRICULUM STUDY

CLAIR B. WILSON, *Chairman*

O. RAY BONTROGER	EDWIN E. HALSTEAD
THOMAS M. GILLAND	ISAAC C. KELLER
SHRIVER L. COOVER	PAUL N. WALKER
	GEORGE S. HART

STUDENT HOUSING

ROBERT M. KECK	CYNTHIA E. BENZING
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THE COLLEGE

The provisions of this bulletin are not to be regarded as an irrevocable contract between the student and the College. The College reserves the right to change at any time within a student's term of residence, any provision or requirement in keeping with changes of the State Department of Public Instruction or the Board of the State Teachers College Presidents. The College further reserves the right to ask, at any time, that a student withdraw *for cause*.

PURPOSE

The College is owned and controlled by the Commonwealth of Pennsylvania for the specific purpose of preparing teachers for the public schools. Students who show that they are not fitted for the profession of teaching may be asked, at any time, to withdraw.

The College is collaborating with the Pennsylvania State College in providing an instructional program for freshman students assigned to this College.

HISTORY

The borough of California, founded in 1849, gets its name from the gold rush to the state of California during the same year. The settlers here, early feeling a need for education, in 1852 established an academy. Thirteen years later that institution received a state charter to become the Southwestern Normal College. In 1894 it was given official state recognition and became known as the Southwestern State Normal School.

In 1913 the stockholders of the original institution voted to accept a proposal of the State Board of Education for the purchase of the school, and in 1914 entered into an agreement, which was approved by the governor, making the Southwestern State Normal School a state-owned institution.

Under state control the Normal School at California, together with others throughout the state, developed new programs and new services. Curriculum standards were constantly advanced, until in 1928 the State Council of Education granted to the College the right to offer a four-year curriculum in elementary education, leading to the Bache-

lor of Science degree. A few months later the same body approved the addition of a four-year curriculum for the preparation of teachers for public secondary schools. In 1929 the school became officially a Teachers College, fourteen students receiving degrees at the Commencement in May.

In the fall of 1930 an industrial arts curriculum was added. Since that time the services in the elementary field have been extended to include courses for the preparation of teachers interested in speech correction and in mentally retarded classes.

Today the College, with three four-year curriculums and several specialized services, ranks among the outstanding institutions of its kind in the state as well as in the Eastern United States. During 1949-1950, it served 930 full-time students and more than 150 teachers-in-service. It has a faculty and administrative staff of 70 persons.

The service area of the College includes, for the preparation of elementary and secondary school teachers, Washington, Fayette, Greene, and Somerset Counties, and for the preparation of teachers of industrial arts, all of Western Pennsylvania.

LOCATION

The State Teachers College at California, located in what is known as the Tenth Teachers College District, is 25 miles south of Pittsburgh; 16 miles from Uniontown; 25 miles from Washington, Pennsylvania; 25 miles from Waynesburg; and 66 miles from Somerset.

The College is most easily reached over U. S. Route 46, which comes within four miles of California at Malden, a short distance from West Brownsville, and over Pennsylvania Route 83.

Bus and railroad services add to its accessibility. One bus route, between California and Roscoe, makes half-hourly connections with the interurban trolley from Pittsburgh; others furnish service to Brownsville, Charleroi, Monessen, and Pittsburgh.

THE CAMPUS, BUILDINGS, AND EQUIPMENT

PRESENT BUILDINGS

Eighteen buildings, of which 12 are brick, are arranged in a quadrangle on a campus of 28 acres. The entire campus has been laid out by a landscape architect, with hedges, shade trees, flower plots, and shubbery. Many uncommon plants and trees are included in the collection, which, besides adding beauty to the campus, offers a valuable laboratory for students in the biological sciences.

Main Hall, the oldest building on the campus, was first used in 1870. The administrative offices, the library, the auditorium, and a number of classrooms are located in this building.

North Hall, *South Hall*, and *Dixon Hall*, all of which face College Avenue, are student dormitories. North Hall was built in 1874; South, in 1876; and Dixon, which in addition to serving as a dormitory includes the Georgian Dining Room, in 1907.

Fayette, *Greene*, *Somerset*, and *Washington Halls*, temporary dormitories for men, are located on the north side of the back campus between Science Hall and the Heating Plant. They were completed in January, 1947.

Science Hall, which stands near the center of the northern boundary of the campus, was built in 1892 and remodelled in 1938. The laboratories, equipped to accommodate 30 students at a time, are modern in every respect. Short-wave Radio Station W8SUS is located on the third floor.

Science Annex, a temporary structure located on the north side of the campus, has been constructed recently to accommodate classes in biological science, mathematics, and speech.

The *Noss Laboratory School*, built in 1930 on the southeast corner of the campus, is a center for student teaching, including observation and demonstration work.

The *Industrial Arts Building*, opened for use in 1939, is on the east campus. This building is one of the best planned and most complete of its kind in the country. It provides laboratories, classrooms, offices, storage rooms, a reference library, and shop facilities for printing, woodwork, painting, machine shop, sheet metal, forging, welding, auto mechanics, electricity, ceramics, and the graphic arts.

Herron Hall, facing Third Street, is the college gymnasium. The first floor includes a classroom, a play room, and locker rooms for men and women; on the second floor are a large gymnasium and four classrooms. The central portion was built in 1930; the classroom wings were added in 1932.

Herron Hall, East Wing, was opened in 1939. It contains one of the best swimming pools in Western Pennsylvania. The glazed tile pool is illuminated indirectly by disk-shaped chandeliers, as well as by underwater lights. The tank with a sloping, tiled bottom and permanent black swimming lanes, is 75 feet long and 25 feet wide. Two corrective-exercise rooms and a large playing floor complete this wing.

Vulcan Hall, immediately behind Main, was built in 1892 as a gymnasium. Following the construction of *Herron Hall*, it was used for industrial arts. Abandoned for that work in the spring of 1941, it has since been used for instruction in mechanical drawing, machine shop, welding, and related activities and as a workshop for the college dramatic groups.

Other buildings are the *Heating Plant*, an attractive structure on the northeast campus, and the *Laundry* and the *Maintenance Plant*, both of which are near *Vulcan Hall*.

NEW BUILDINGS

Under the recently enacted General State Authority for the Commonwealth of Pennsylvania work is proceeding on the complete rehabilitation of North Hall as a women's dormitory. South Hall will be remodeled to provide facilities for the College Book Store, rooms for the various clinics and faculty offices. New buildings will include an auditorium, a dormitory for men, a central stores building and necessary repairs to the Main Building.

OTHER DEVELOPMENTS

The Lilley Recreational Center is a student enterprise, located two miles south of the campus on Route 88. It is a farm of 82 acres, with a stone house, built in 1810, and a large stone barn; the latter has been renovated and remodeled for student activities. The property was purchased by the students and is being gradually developed as an activity and recreational center.

The Athletic Field, a seven-acre tract located southeast of the main campus and conveniently near the gymnasium, furnishes adequate facilities for football, track, baseball, tennis, archery, and other outdoor activities.

LIBRARY AND LABORATORIES

The library, at present housed in Main Hall, contains more than 26,000 volumes. Approximately 1,000 volumes are added each year. The library subscribes for 200 current magazines and newspapers and has catalogued nearly 1,600 bound volumes of periodicals. Spacious, well-lighted reading rooms accommodate 140 students, and a periodical reference room provides study space for 30 persons at a time.

The College maintains well-equipped laboratories in biology, chemistry, physics, reading, psychology, and speech, in addition to the facilities provided in the many shops for industrial arts students. The chemistry, physics, and biology laboratories, with lecture rooms adjacent, are located in Science Hall, which was remodeled and redecorated in 1938. Each of these laboratories accommodates a class of 25 or 30 students. Science Annex has facilities in biology for laboratory sections of 50. The speech correction clinic is also located in this building. The psychology and reading laboratories are located in the Noss Laboratory School, which is also the campus center for elementary student teaching. Excellent shop facilities are provided in the Industrial Arts Building.

CLINICAL SERVICES

Although the main function of the College is teacher-education, additional service to the community and to the area is furnished through speech, reading, and psycho-educational clinics, which serve both public school children and college students. Many school districts, as well as individuals, are aided annually through the facilities of these clinics.

The speech clinic provides an opportunity for students and teachers to observe speech correction at work. A week-day clinic accommodates cases for treatment over the period of a semester. School surveys and clinic and office appointments are available to anyone.

The reading clinic offers an opportunity for the diagnosis of children's reading difficulties. Children may be brought to the clinic by appointment during the week and on Saturday mornings.

The psycho-educational clinic, which cooperates closely with the speech and reading clinics, deals with problems of social attitude, personality, and retardation in learning. It is open for after-school appointments on Mondays, Wednesdays, and Fridays, and on Saturday mornings. A limited amount of field service is furnished to school districts that wish to establish special classes for mentally retarded children. This clinic has an equal interest in the study and adjustment of children of superior ability. In the two types of service it meets approximately 50 children monthly.

CLINICAL SERVICES FOR COLLEGE STUDENTS

Each student has the opportunity to use the college clinical services for gaining an understanding of his personal characteristics. This study includes a graph of personality traits and inventories of study skills, interests, and social attitudes. Through interviews the results of these inventories and their relation to teaching are made evident to the student, who is carefully shown the responsibilities he is about to undertake as a teacher. As these analyses are meant to be aids in specialized guidance rather than criticism, the information they contain, considered confidential, is used only for professional purposes.

This service is extended to student at any time while they are enrolled in the College or to high school seniors planning to enter college. It is of particular value to college freshmen.

THE ALUMNI

Alumni Association membership numbers more than sixty-five hundred. Many of these graduates are engaged in the teaching profession in Western Pennsylvania, but this group is also represented in many other states. Commencement week provides special opportunities each year for returning alumni to visit the campus. During the year meetings are held to discuss various problems of the Association and to plan special issues of *The California Bulletin*. Alumni numbers, published four times a year, serve as the official publication of the Association.

The officers of the Alumni Association for 1949-50 are
 IRENE STEVENS EDWARDS '32 ----- President
 ROWENA HETHERINGTON FRAZIER -- First Vice President
 RALPH CHARNEY '42 ----- Second Vice President
 WILLIAM HARTLEY '32 ----- Third Vice President
 FUNICE BILLINGSLEY MORGAN '23 ----- Secretary
 MERRELL EDWARDS HOLMAN '42 -- Corresponding Secretary
 JOHN R. GREGG '09 ----- Treasurer

The Board of Directors is composed of
 BOYD HAWKINS '49 STEVE PAVLAK '43
 SYLVIA MARTIN '20 IRENE SHOAF '20
 MRS. JOSEPH NEID, SR. '09 JOHN WHEELER, '48
 ROBERT M. STEELE, *ex-officio*

The Alumni Association has the whole-hearted cooperation and support of the faculty and the officers of the administration.

STUDENT DEVELOPMENT

To give himself valuable experience, the student is required to assume as large a share of responsibility through self-direction as is practical. To accomplish this, various organizations, including such groups as the Student Activities Association, the Student Cabinet, the Student Congress, the Day Women's Council, the Day Men's Council, the Dormitory Women's Council, and the Dormitory Men's Council, have been established on the campus.

The College candidly faces its responsibility for the development of those social, cultural, intellectual, and spiritual qualities that are vital in teaching. Every means in the classroom and on the campus is pointed to the fulfillment of this objective. It is the function of the offices of the Dean of Men and the Dean of Women to cooperate with the departments of instruction and with other college agencies in achieving this result.

The College assumes that the young men and young women of college age who obtain admission to the institution know what constitutes intelligent moral conduct. Students who fail to maintain such a standard, as judged by the student councils and college authorities, will not be permitted to remain. For carrying out the spirit which prevails and the regulations which have been established, each dormitory group, and the commuting men and women in their groups, select their own councils and, cooperating with their respective deans, share in the government of the College. An efficient student government and a pleasant, congenial spirit have resulted.

FACULTY ADVISORS

At the beginning of the school year, each first year student is assigned to a faculty adviser whose function is to be of service to a new entrant during the years of college life. The adviser studies the educational and social background as well as the aptitudes and interests of the assigned advisee in the regularly scheduled conferences.

SCHOLARSHIPS AND LOANS

STATE SCHOLARSHIPS

Holders of State Scholarships may attend State Teachers Colleges and use the Scholarship award toward meeting their expenses. The Senatorial Scholarships do not apply to State Teachers Colleges.

STUDENT LOAN FUND

A small loan fund was established by the Class of 1927 for the purpose of giving financial assistance to worthy students. From time to time various groups of individuals have contributed money until the fund amounts at present to approximately \$10,000. Donors of amounts of \$100 or more are as follows:

Class	of	1926	Class	of	1936
Class	of	1927	Class	of	1938
Fayette Co. S. S.		1927	Mary Graham Ross Fund		
Class	of	1928	J. B. Smith Alumni Chapter		
Class	of	1929	Coterie Club of California		
Monocal		1930	Lee Smith Estate		
Class	of	1932	Miss Clara Smith		
Monocal		1934	Class	of	1941
Class	of	1934	Class	of	1944
Class	of	1935			

The fund is held in trust by a Board of Directors made up of two alumni and three faculty members. The following officers were appointed for 1949-50: William C. Grimes, chairman, Mrs. Irene Stevens Edwards, Dr. Robert M. Steele, Paul N. Walker, and Aaron J. Hoover, secretary-treasurer. All contributions should be sent to one of these persons. Arrangements for a loan should be made with the secretary.

Students may obtain aid only during the last half of their college careers. The committee, in granting loans, takes into consideration scholarship, personal worthiness, and professional attitude.

Students who cannot provide for themselves financially during their first two years at the College should reconsider their plans to enter, as opportunities for students to earn their way are limited.

RELIGIOUS ADVANTAGES

Though affiliations with particular sects are avoided by the authorities of the College, every endeavor is made to interest students in Christian work and to develop a clean, wholesome, moral atmosphere. On Wednesday evenings the "Y" meets. Students are expected to attend the churches of their choice on Sunday mornings.

CHURCHES

There are churches of the following denominations in California: Baptist, Christian, Methodist, Nazarene, and Presbyterian. A Jewish Synagogue is also located in the borough. There is a Roman Catholic church in Coal Center, about one mile from the campus.

SOCIAL LIFE

Through receptions, parties, teas, dances, and other social events held frequently during the college year, every possible effort is made to bring about a wholesome and homelike atmosphere among the students. The Colonial Room and the French Provincial Room aid considerably in developing a stimulating social life. The whole program is designed to stress the importance of a teacher's being prepared to meet the social amenities.

To control the situations that sometimes develop at social functions, persons not enrolled as students at the College are admitted to parties, dances, and similar functions only as guests of faculty members or of students. Guest cards must be obtained by the student giving the invitation before four o'clock on the day of the event, at the office of the Dean of Men or of the Dean of Women. Those who care to dance may do so in the French Provincial Room from 12:30 p. m. to 1:00 p. m. and from 6:30 p. m. to 7:30 p. m. daily and until 10:30 o'clock on Friday and Saturday nights.

Complete information about the rules and regulations that govern dormitory students may be obtained from the Dean of Men or the Dean of Women. *The Vulcan*, the student handbook which is issued annually and given to each

student upon registration in September, contains detailed information concerning activities and organizations.

STUDENT ACTIVITIES

Student activities develop initiative, co-operative effort, and leadership. The College encourages a varied program, and works with the students through the offices of the Dean of Men and the Dean of Women in achieving the desired results. All students are required to take part, without credit, in one physical education activity each semester in which no required physical education work or student teaching is taken, and to be active in another activity one semester each year.

The following are the significant student activities on the campus:

ATHLETICS	DRAMATICS
Baseball	College Players
Basketball	
Football	FORENSICS
Golf	Debate Club
Mushball	Discussion Club
Swimming	
Tennis	HONOR SOCIETIES
Womens Athletic Association	Alpha Psi Omega
	Epsilon Pi Tau
	Kappa Delta Pi
	Phi Sigma Pi
	Pi Gamma Mu
SPECIAL INTEREST CLUBS	
Benjamin Franklin Graphic Arts Guild	
Chess Club	MUSIC
Future Teachers of America	Men's Glee Club
Rifle Club	Mixed Chorus
Saddle Club	Women's Glee Club
Sketch Club	
Sigma Gamma Beta (For the advancement of science)	SOCIAL GROUPS
Biology Division	Gamma Pi Chi
Chemistry Division	Married Couples Club
Geography Division	Monvaley
Mathematics Division	
Photography Division	GOVERNING GROUPS
Radio Division	Student Activities Association
	Student Congress
PUBLICATIONS	Athletic Council
<i>Tower Times</i>	Publications Council
<i>Monocal</i>	Men Day Students' Council
<i>The Industrial Arts Leader</i>	Women Day Students' Council
<i>The Vulcan</i>	Dormitory Men's Council
	Dormitory Women's Council
RELIGIOUS	
The "Y"	

HEALTH EDUCATION AND ATHLETICS

HEALTH EDUCATION

During the freshman year each student is required to take a course in health education, which includes instruction in gymnastic activities, swimming and personal hygiene. After the first year the student continues the physical activity and also includes work in health problems and the teaching of health. Credit is given for the first three years. Seniors are required to participate in some physical activity without credit if they are not doing their student teaching.

The health education program is not conducted with the idea of developing professional athletes but of familiarizing students with a number of activities, in some of which, it is hoped, they will find an interest that may be carried over into their work as teachers and into their personal lives.

He who expects to be a leader of boys and girls should know many games, because young folks enjoy variety. With this idea in view, a varied intramural sports program is conducted. This includes instruction in apparatus, archery, baseball, basketball, boxing, eurythmics, folk dancing, fencing, hockey, marching, primary games, relays, speed ball, tennis, tumbling, touch football, track, volleyball, and wrestling.

Uniform gymnasium dress for men and women is required. The approved uniforms may be purchased from the campus Book Store. The cost of a woman's uniform, which consists of a one-piece suit and socks for the gymnasium, is approximately \$5.00. In addition, each student must provide herself with rubber-soled sneakers. A short coat or heavy sweater and slacks will be necessary for the outdoor work in the fall and spring, and a pair of stout, low-cut shoes for hiking will also prove useful. Men students may purchase the regulation athletic shorts and shirts at the College Book Store for approximately \$2.00. They must provide themselves with rubber-soled sneakers for gymnasium work.

In addition to the health education course for freshmen, an extensive intramural athletic program is sponsored for advanced students.

Veterans may be granted physical education credits for their military service by an evaluation of their military record provided they entered service between September 16, 1940 and July 25, 1947. All veterans are required

to participate in some physical activity each semester even though they may have received credit for the required physical education courses.

HEALTH SERVICE

The Health Service at the College, attended by a registered nurse, who resides in the dormitory, provides dispensary care and limited infirmary service. The dispensary, located in North Hall, is well equipped to handle emergency situations. Students who are ill enough to be confined to bed may be cared for in the infirmary. Several local physicians are subject to call in case of necessity.

Students are advised that, after the initial consultation and first aid treatment by a college physician and the nurse, subsequent attention and care must be given by or under the advice of an outside physician of the student's choice. All expenses for such treatment and for medicine must be paid by the student.

All students must undergo general physical examination conducted once each year by local physicians, with the assistance of the resident nurse and the members of the Department of Health Education. Periodically, certain examinations, including X-ray examinations for tuberculosis, are given through the cooperation of the State Department of Health.

ATHLETICS

Although the College emphasizes intramural athletics, it also sponsors a rather complete program of intercollegiate sports. Students have the opportunity of being on varsity teams in football, basketball, baseball, swimming, golf, and tennis. Varsity schedules usually include teachers colleges in Pennsylvania and West Virginia and some liberal arts colleges.

Football and baseball are played on an athletic field adjacent to the main campus. Splendid facilities for basketball are available on two regulation playing floors, one in the main part of Herron Hall, the college gymnasium, and the other in the East Wing. Excellent swimming facilities are available in a regulation pool in Herron Hall, East Wing. Tennis is played on six hard-surfaced courts adjacent to the football field.

Although the College believes in and encourages intercollegiate sports, it does not permit them to come before study in the life of the student. The eligibility code

of the Board of Teachers College Presidents is strictly enforced. Rigid administrative supervision is given to all varsity sports and a high standard of scholarship maintained.

A complete statement of the rules and regulations that govern athletic competition is given in *The Vulcan*, the student handbook.

HOUSING FACILITIES

Seven dormitories, under the supervision and direction of the Dean of Men and the Dean of Women, are provided for the comfort and convenience of resident students. Each year changes and improvements are made.

Rooms are furnished with beds, chairs, tables, study lamps, dressers and wardrobes. The beds are supplied with sheets, pillow cases, blankets and bedspreads. Students must supply their own towels and such personal effects as they desire. Laundry should be marked with printed or woven name tabs.

A room may be reserved in advance by sending the registration deposit of \$10, with an indication of the type of room desired. No room will be reserved without a deposit. Reservations will be held until three o'clock on the afternoon of the day of registration. At that time, the reservation will be withdrawn unless the student has notified the College by letter, telephone, or telegram of his intention to arrive later. The deposit will not be returned unless application is made at least three weeks prior to the opening of the College. Upon registration the fee is applied to the student's regular account.

DORMITORY FOR WOMEN

Dixon Hall, the dormitory for women, houses 80 students. On the ground floor is the French Provincial Room, which is used for recreational purposes, providing facilities for dancing and other social activities; and the student cooperative Snack Bar.

This hall also includes the Georgian Dining Room, with a seating capacity of 425 persons.

DORMITORIES FOR MEN

South Hall, located between Main and Dixon Halls, is a dormitory for men designed to accommodate 60 persons. The YMCA lounge is located in this building.

North Hall, a dormitory for men, comfortably houses

114 students. On the first floor is the beautiful Colonial Room, a lounge for students. Centrally located on each of the floors are pressing rooms and modern lavatory facilities. The College dispensary, the infirmary and the nurse's apartment are located on the first floor of this building.

Fayette, Greene, Somerset and Washington Halls are dormitories for men. Although they are temporary structures, they are well-equipped, centrally heated, and with complete facilities, each room accommodating two students. Each building houses approximately 50 students.

ACCOMMODATIONS FOR COMMUTING STUDENTS

Students who commute either by train or automobile have modern and convenient quarters. Lockers protected by combination locks are provided for the safety of student's clothing and personal property.

The large ground-floor rooms of North Hall are headquarters for women students who commute. They are attractively furnished with study tables, chairs, and studio couches, and equipped with lockers, showers, and hair dryers. The entire floor was recently remodeled and redecorated in green and gold.

Comfortable and adequate facilities for men who commute are provided in Science Hall. Two large rooms are furnished with lockers and work tables. There is adequate lounge space, with modern lavatory accommodations.

LIVING OUTSIDE DORMITORIES

Students will not be permitted to room or board outside the dormitories, except in the homes of parents, grandparents, brothers, sisters, uncles, or aunts, unless special permission has been granted by the Dean of Men or the Dean of Women. Arrangements must be made with the proper dean before rooms are engaged. Students will not be permitted to room in houses which have not been approved by the Housing Committee. Any change of address must be approved by the proper dean before the change is made.

FILM LIBRARY SERVICE

The College operates a film library service through which public schools in the service area may obtain a wide selection of motion pictures and filmstrips with projecting equipment. Further information may be obtained by writing to the Director of Audio-Visual Services.

VETERANS AT CALIFORNIA

The educational opportunities for Veterans of World War II, authorized by Public Law 346 and, in special cases, Public Law 16, are available. The College is cooperating with the Veterans' Administration in offering the regular degree curriculums to those desiring to prepare to teach in the elementary, secondary, or industrial arts fields.

Graduates of approved four-year high schools are admitted to these educational programs upon application, in conformity with the established entrance requirements.

Veterans of World War II who are not graduates of four-year high schools may be admitted to the College under certain provisions as set forth in Bulletin 1, *The Pennsylvania Plan for Evaluation of Secondary Credentials, for Examinations and for the Issuance of the High School Equivalent Diploma Under Act Number 212, Approved May 15, 1945*, issued by the Department of Public Instruction September 7, 1945. Veterans who desire information should contact the College admissions officer to determine whether they are eligible for admission under this plan.

The evaluation of military and naval training into college credits will be made by the Dean of Instruction and a faculty committee, in accordance with the policies of the Board of Presidents of the State Teachers Colleges and the recommendations of the American Council of Education as set forth in *A Guide to the Evaluation of Educational Experience in the Armed Services*. It will be necessary for the student to furnish certified copies of his record. Persons desiring such evaluations should consult the Dean of Instruction before the registration period. All evaluations are tentative until the student has been in residence one semester.

Correspondence courses completed through the United States Armed Forces Institute will be accepted toward a degree, provided they satisfy the requirements of the curriculum.

ADMISSION AND GRADUATION

GENERAL REQUIREMENTS FOR ADMISSION

All students, whether freshman or advanced, who apply for admission to the College must meet to a satisfactory degree the requirements, established by the Board of Presidents of the State Teachers Colleges of Pennsylvania, in the following categories:

1. General scholarship
2. Command of English and other evidence of intellectual fitness
3. Character and personality
4. Health
5. Personal interview

APPLICATION OF THE ADMISSION REQUIREMENTS

1. GENERAL SCHOLARSHIP

The applicant must have been graduated from a four-year high school of accredited standing or an institution judged by the Secondary Education Evaluation Division of the Department of Public Instruction, Harrisburg, Pennsylvania, to be the equivalent.

All applicants take the Freshmen Placement Tests at the time of the interview. Applicants ranking in the upper half of their secondary school class are admitted on certificate; if in the lower half, on probation, provided that

- a. he is recommended by his secondary school superintendent or supervising principal as being able to do creditable college work.
- b. he shows a satisfactory rating on scholastic aptitude tests administered at the College.

The applicant who meets these provisions will be admitted on probation for one semester, and retained only if he acquires, during the probation period, a minimum of nine semester hours of credit.

2. COMMAND OF ENGLISH and other evidence of intellectual fitness.

The Board of Presidents prescribes each year uniform standard tests for use in all State Teachers Colleges.

Students who demonstrate a lack of competency to carry college work in English fundamentals or other subjects may be required to take remedial courses with credit.

3. CHARACTER AND PERSONALITY

The candidate must be recommended by the superintendent or supervising principal of his secondary school for trustworthiness, initiative, industry, cleanliness and social adaptability.

4. HEALTH

The applicant must possess a clean bill of health, together with evidence of emotional stability, of absence of physical defects which would interfere with his successful performance of the duties of teaching, and of absence of a predisposition toward ill health. He must present a certificate of examination furnished by the College and signed by a physician legally qualified to practice medicine in the Commonwealth of Pennsylvania. This form will be checked by the examining physician at the College. The student may be required to undergo re-examination.

The applicant may be rejected for

- (1) Incurable defects or diseases of the heart, lungs, kidneys, digestive system, nervous system, skin, organs of the special senses, and the thyroid gland, and for epilepsy or nervous instability.
- (2) Defective vision of marked degree
- (3) Permanently impaired hearing
- (4) Marked speech defects
- (5) Unsightly deformities
- (6) Marked obesity

Students with remedial defects may be accepted on condition that immediate treatment be undertaken for the removal of these defects.

5. THE PERSONAL INTERVIEW serves two purposes:

- a. It gives the examining committee an opportuni-

ty to appraise the applicant's professional promise.

- b. It supplies material concerning the applicant's personality, speech habits, social presence, and enthusiasms, which can later be used to his advantage.

The interview will be conducted at the College or elsewhere, at times designated by the President.

ADMISSION OF FRESHMEN

Freshmen in the Elementary and Secondary Curriculums are admitted at the opening of each session. Freshmen desiring admission in the Industrial Arts Curriculum are expected to enter in September, 1950.

The following dates have been established for the freshmen interviews and placement tests:

January 20, 1950	June 17, 1950
March 25, 1950	July 22, 1950
April 22, 1950	August 19, 1950
May 20, 1950	September 8, 1950

Notification of the exact time will be sent candidates when their application forms are on file.

Applicants for admission as freshmen should read and observe carefully the following procedure:

1. Request from the General Office of the College the four forms necessary in making application for admission:
 - a. The application and personal record blank
 - b. The report of the medical examination
 - c. The declaration of citizenship
 - d. The report of secondary school achievement
2. Return, completed, the first three. The secondary school record is to be sent directly to the College by the superintendent or principal.
3. When notified, come to the College for the personal interview and entrance and placement examinations, which are given at intervals during the year. At this time students who wish to live in the dormitories should make arrangements with the Dean of Men or the Dean of Women for rooms.

No application for admission will be considered for final approval until all requirements have been met.

ADMISSION OF OUT-OF-STATE AND FOREIGN STUDENTS

Out-of-state and foreign students may be admitted to the College when their admission and instruction does not interfere with the admission and instruction of students resident in the Commonwealth. In the cases of foreign students, admission will depend upon acceptable clearance from the education authorities of the countries concerned and of the Department of State of the United States.

ADMISSION OF STUDENTS WITH ADVANCED STANDING

Students who have attended other institutions of collegiate rank and who wish to enter the College will be expected to meet the following requirements:

1. File with the Registrar the necessary application forms.
2. Present official transcripts showing honorable dismissal and a quality of work above the average. (A 1.0 quality point average or better).
3. Have an interview with an official of the College. At the time of this interview the applicant should have on file official transcripts of the work taken at all institutions previously attended.
4. Students planning to transfer should make application in time to have all records cleared before the registration date.

TRANSFER STUDENTS WITH SCHOLASTIC DEFICIENCIES

Persons who have been dismissed for scholastic deficiencies or for disciplinary reasons from another college or university will not be admitted to the Collège until they are eligible for re-admission to the institution from which they were dropped.

CREDITS, GRADING SYSTEM, AND CLASSIFICATION

CREDITS

Courses are recorded in terms of "credits." A credit represents one hour a week of recitation or lecture through a semester of 18 weeks. In laboratory courses, however, a ratio of two, three, or four hours of laboratory work for one credit prevails, according to the department. Varying amounts of required outside work are also assigned, so that, where the total number of credit hours is stated to be 16 or 17, the number of clock hours a week may total

as high as 30, 32, or more. Descriptive titles and credit values of courses appear in the section of this bulletin devoted to description of courses.

EXCESS CREDITS

Students who wish to carry more than the usual schedule of 16 or 17 semester hours must obtain permission from the Committee on Advanced Standing or the Dean of Instruction at the time of registration. Under no circumstances will excess credits, whether taken in the College or in another institution, be honored when these are taken without the approval of the Committee or the Dean. In reviewing applications for permission to carry excess credits the Committee or the Dean will give consideration not only to the academic standing of the applicants, but also to their health records and extracurricular activities.

The following conditions, based upon the student's record of the preceding semester in residence, have been established as the basis for permission to carry excess credits:

Quality point average	Total credits scheduled
2.00 to 2.49	18 credits
2.50 to 2.74	19 credits
2.75 to 3.00	20 credits

EXTENSION CREDITS

The College will accept for graduation a limited number of extension credits from other accredited institutions only when those credits have been earned in courses taught by persons who were then giving their full time to extension instruction in such institutions or to a combination of extension and campus instruction. Usually not more than the equivalent of one year's work of 32 semester hours in extension courses will be accepted toward a degree. Credits for correspondence courses are not accepted except for members of the armed forces, submitting records through the United States Armed Forces Institute, Madison, Wisconsin.

EVENING AND SATURDAY CLASSES

Friday Evening and Saturday classes are scheduled for the benefit of teachers-in-service. Regular students may schedule these classes if they so desire. Inquiries about the courses scheduled should be addressed to the Dean of Instruction.

SUMMER SESSIONS

The College operates on a three-six-three weeks' basis during the summer. Courses are given for students who wish to accelerate their programs, for teachers-in-service, and for students wishing to remove deficiencies. Inquiries about the courses offered should be addressed to the Dean of Instruction.

SUMMER SESSION CREDITS

College rules, in keeping with regulations of the State Department of Public Instruction, sanction only a credit a week during a summer session; that is, six credits during a six weeks' and three credits during a three weeks' session.

In exceptional instances students who are attempting to complete degree requirements during a summer session may be given permission by the Dean of Instruction to carry more than the maximum number of credits, provided that previous scholastic records warrant such consideration and that in no instance will the total number of credits be out of proportion to good practice.

Students are advised not to take more than a credit a week during summer terms at other colleges if they expect to use credits thus earned toward degrees from this college.

EVALUATION OF CREDITS

An evaluation of credits is considered valid only for the year in which the distribution is made. The situation exists because of frequent changes in regulations governing the value of credits and in the requirements for certification and graduation made by the State Department of Public Instruction, the State Council of Education, and the Board of Presidents of the State Teachers Colleges. Students are urged to keep themselves informed about their distribution by occasional inquiry, other than at registration periods, at the General Office.

Students who are not graduates of first-class four-year secondary schools must have their credits evaluated by special procedure. Persons to whom this applies should consult the Dean of Instruction.

NORMAL SCHOOL CREDITS

All persons who were graduated from a State Normal School prior to September 1920, and who have a four-year secondary school education will be granted for their aca-

demic work not more than 64 semester hours of credit toward a degree.

Students who were graduated from a State Normal School before four years of secondary school preparation were required and who still have not satisfied this requirement should apply to the Secondary Credentials Division of the Department of Public Instruction, Harrisburg, Pennsylvania, for information about obtaining a secondary school equivalent certificate, which, when issued, will be accepted by the College for admission to a degree curriculum.

ADVANCED STANDING CREDIT

Credit for advanced standing is not allowed for work done by correspondence, nor will credit be given for courses which are not equivalent to those required or approved in the curriculums offered at this college or for courses completed at other colleges or universities in which grades below C were earned. All credits of students who apply for admission with advanced standing must be approved by the Dean of Instruction. Credits from colleges not approved by the Department of Public Instruction of Pennsylvania will not be accepted toward either certification or graduation.

GRADING SYSTEM

- A* indicates superior attainment.
- B* indicates attainment above the average.
- C* indicates average attainment.
- D* is the lowest passing grade.
- F* indicates failure.
- P* indicates passing. (used for required preparatory courses, library, orientation, physical education, and student teaching courses.)
- Inc* indicates incomplete work.
- W* indicates withdrawal from a course.

For the purpose of interpreting percentage grades into letter grades, the following local standards have been approved by the faculty.

95% to 100%	—	A
86% to 94%	—	B
76% to 85%	—	C
70% to 75%	—	D
Below 70%	—	Failing

The symbol *Inc* is not used unless a student has been in attendance throughout a semester or session. It indicates that as the work is incomplete, the final grade is being withheld until the student fulfills all the requirements of the course. It is used only when conditions and circumstances warrant and when evidence is presented to justify its being given. An *Inc* is always accompanied by a supplementary symbol indicating the character of the work already done: *IncB*, *IncC*. The following conditions govern an incomplete:

1. It must be removed by arrangement between the student and the instructor in the session, either semester or summer, immediately following.
2. After the lapse of one term, semester or summer, the grade may be changed only upon approval of the Dean of Instruction.
3. After the lapse of one year, the incomplete grade automatically becomes a grade of F and cannot be removed without the student's repeating the course.

The grade *W*, which is used to indicate withdrawal from a course, is subject to the following conditions:

1. Up to the end of the sixth week of classes, the withdrawal will be recorded as *WX*, indicating the student's withdrawal before the instructor was able to determine success or failure.
2. From the end of the sixth week through the twelfth week the withdrawal, if sanctioned by the Dean of Instruction, will be accompanied by a grade (*WB*, *WC*), indicating the quality of work which the student was doing at the time of withdrawal.
3. After the twelfth week no withdrawal except in extenuating circumstances will be permitted. If a student insists upon withdrawing from a course, a grade of F will automatically be recorded.

GRADE REPORTS

Grade reports for students doing failing or low quality work are handed to the Dean of Instruction at the end of each six-week period. Such students as reported are notified of their low grades and where deemed necessary information is sent to the parents. The final semester grades are mailed to the parents.

SCHOLASTIC STANDING

Students who are unable to do satisfactory academic work in any semester are placed on probation. The schedules of such students are usually reduced from 16 or 17 credits to 12 credits. When students, in spite of reduced schedules and remedial services offered by the College, are not able to improve the quality of their work to such an extent that they have a reasonable chance of being graduated, they may at any time, upon the recommendation of the Dean of Instruction, be asked to withdraw from the College. Students thus dropped may, after a reasonable period of absence, apply for readmission; if in the opinion of the Dean, the chances of their doing successful work appear to be favorable, they may be readmitted on probation for a final trial.

The Scholarship Committee of the faculty has established certain "Minimum Scholastic Standards." They are published in *The Vulcan*, the student handbook.

CLASSIFICATION

Students are classified as freshmen when they have earned fewer than 32 credits; as sophomores when they have earned 32 to 64 credits inclusive; as juniors when they have earned 65 to 96 credits inclusive; and as seniors when they have earned 97 to 128 credits.

The credits used to determine the classification of students include those earned at this College and those earned at other institutions accepted by the College on the basis of official transcripts.

WITHDRAWALS

Students who during a semester find it necessary to leave the College should, before discontinuing attendance at classes, confer with the President or the Dean of Instruction and with the Dean of Men or the Dean of Women. If after such conferences it is found that the student should not continue, official withdrawal forms must be filled in at the General Office. Students who leave the College without following this routine, especially the filling in of withdrawal cards, jeopardize their status.

Withdrawal forms must be properly filled in also by students who desire after registration to discontinue part of their schedules. When students merely stop attending classes without officially withdrawing by filling in the proper cards, F grades are recorded on the permanent records.

GRADUATION REQUIREMENTS

DEGREE

All curriculums in the College lead to the degree of Bachelor of Science in Education.

CANDIDACY FOR DEGREE

At the time of registration for the semester in which he expects to complete the requirements for graduation, the student must file with the Registrar an application for admission to candidacy for the degree.

HONORS

Distinguished Service Awards are given at the May Commencement to the most outstanding man and the most outstanding woman of each graduating class.

Commencement honors are awarded to a limited number (not more than one-eighth) of the graduating class, who receive the distinction of being graduated "with honor." Of the number elected, the distinction of some may, by a vote of the faculty, be raised to graduation "with high honor" or "with highest honor." This recognition can be bestowed only upon evidence of unusual ability as shown by scholastic records and in keeping with standards established and approved by the faculty.

Semester honors are awarded on the basis of quality point averages as follows:

Highest Honor	3.0
High Honor	2.5 to 2.99
Honor	2.0 to 2.49

QUALITY POINT SYSTEM

As there is a quality standard for passing each course, so there is a quantitative standard for completing a curriculum. This is made possible by the establishment of a quality point system, which demands that students cannot be graduated by getting merely passing grades in each course.

The quality point system requires that a student, before he can be graduated, must complete all required and elective courses in the curriculum which he is pursuing, have the minimum number of credits required by his curriculum, and earn a quality point average of at least 1.0 (C) for all courses in which grades other than P are given.

Each credit of work completed is awarded quality

points which are computed according to the following scale: each credit of A grade is multiplied by 3, B grade by 2, C grade by 1, D grade of 0, and F grade by minus 1. Courses dropped without the consent of the Dean of Instruction shall constitute an F. Courses in which P grades are given do not count in quality point computation.

Students transferring to the College from some other college or university must have earned, in addition to the required resident credits, a quality point average of 1.0 for all courses taken at the institution attended previously.

FAILING GRADES

No student will be graduated with any unremoved incomplete (Inc) or failing (F) grade in any of the areas of specialization or required courses. Students who fail such courses must repeat and pass them satisfactorily.

RESIDENT REQUIREMENT

Students in all curriculums must complete the work of the senior year, or the last 32 credits, in courses given by the College, if they expect to receive degrees from this institution. These credits may be gained on the campus in regular day, evening, or Saturday classes; 25 percent of the number of credits required may be in extension courses given by the College.

CITIZENSHIP

In keeping with legislative provisions, a student, to be eligible for a diploma or a teacher's certificate, is required to present evidence of citizenship of the United States. If he is not a citizen of the United States at the time of his admission, he is required to become naturalized before he may be graduated.

STUDENT TEACHING

Student teaching is conducted under the supervision of the Director of Student Teaching, whose office is located in the Theodore B. Noss Laboratory School. Students who are candidates for degrees are required to earn 12 semester hours of credit in student teaching. For regular students this assignment covers the entire semester of 18 weeks. The work is carried on in the campus Laboratory School and in selected public schools located in the service area of the College.

Students must make application for student teaching by filling out a form obtainable through the office of the Director of Student Teaching. A registration day is held

for such students before the close of the semester preceding the term during which the student teaching is scheduled.

Before a student may be assigned to this vital part of the teacher-education curriculum, he must (A) have a quality point average of at least 1.0 for all courses in which grades other than P are given; (B) be approved by the Dean of Instruction as having completed the required preparatory work; (C) if he is in the secondary or industrial arts curriculum, have a quality point average of at least a C or 1.0 quality point average in his area of specialization.

Students will not be assigned to student teaching until they have had at least one semester's work in the College. Graduates of other colleges must meet the residence requirements before being assigned to student teaching.

STUDENT TEACHING FOR EXPERIENCED TEACHERS

Teachers with three or more years' experience in teaching who become candidates for degrees and who hold certificates below the level of the Provisional College Certificate may, at the discretion of the College, complete the unfulfilled student teaching requirement for degrees in any of the following ways:

1. Earn in actual teaching the number of hours required.
2. Perform under the direction of this institution an assignment associated with their professional work which carries not less than one or more than six semester hours of credit in a single semester. The number of credits will be determined by the quality and amount of work done in the special assignment. In such cases the candidate must be regularly registered in the institution and may not earn more than a total of six hours of credit in a single semester for all courses pursued.
3. In individual cases, pursue, to the limit of three semester hours, courses approved by the College. The rest of the credit shall be earned in one of the ways designated above, or by a combination of them.

No credit toward graduation is granted for teaching experience.

Teachers-in-service who have not fulfilled the student teaching requirement of 12 credits and who are interested in completing it must consult the Dean of Instruction.

SUMMARY OF GRADUATION REQUIREMENTS

1. All entering students are required to complete, without credit, ten lessons in the use of the library. These assignments are usually included with the work in English Composition 1. In addition, students are required to attend classes in orientation for at least one semester.
2. All students are required to take part, without credit, in one physical education activity each semester in which no physical education work or student teaching is required and to be active in one other extracurricular activity for one semester each year.
3. A minimum of 128 semester hours, including all required courses, is necessary for graduation, together with a general quality point average of 1.0 for all courses in which grades other than P are given. Quality points are not computed for work done at other colleges or universities and only for courses taken at the College after 1931.
4. The student must be pronounced physically fit by a physician legally qualified to practice medicine in Pennsylvania.
5. The teaching ability of the student must be satisfactory to the Director of Student Teaching regardless of other credits.
6. No student will be graduated with less than one year of bona fide residence. The last 32 credits needed to complete a curriculum must be taken while the student is in actual attendance at the College; in no way may work at another institution be substituted for this requirement.
7. Students who have not paid all bills previously incurred shall not be permitted to re-enroll, to be graduated, or to have credits sent to other institutions or to the Department of Public Instruction until all such accounts have been paid.
8. All credentials for graduation, including certificate application and transcripts of credits from other institutions, must be filed on or before the first day of the semester or summer session in which a student expects to be graduated. If this requirement has not been met, graduation and certification will be postponed to the following graduation date.

9. Students must register with the Placement Service by filling out in every detail the registration form supplied by the Service, which is located in the campus Laboratory School.
10. Attendance at the baccalaureate and commencement exercises is necessary, unless unusual circumstances warrant graduation *in absentia*. This permission is granted only by the President of the College.

GRADUATION

Commencement exercises are held annually at the close of the second semester, usually the last week in May. At these exercises, degrees are conferred. All students who in the full calendar year preceding have completed the requirements for degrees constitute the graduating class. All members of the class are required to participate in all the Commencement activities.

CERTIFICATION OF TEACHERS

PROVISIONAL COLLEGE CERTIFICATION

Students who receive a degree after completing a four-year curriculum at this College will be granted a Provisional College Certificate, which is issued by the Department of Public Instruction. The certificate, for which application must be made, must be issued before graduates may teach in the public schools of Pennsylvania.

This certificate, not to be confused with the diploma issued at graduation, is valid for three years of teaching. It indicates the subject or subjects and the field in which the holder is permitted to teach.

A College Certificate valid for secondary school teaching may be extended to the elementary field by the presentation of 30 semester hours of work in professional education applicable to the elementary grades; at least six of the 30 credits must be in elementary student teaching. This regulation became effective October 1, 1936.

Twelve credits of professional work applicable to the secondary school, six of which must be in student teaching, are required to extend a College Certificate valid in the elementary field to secondary school teaching. In addition, 18 credits must be presented for each subject or field in which certification is desired.

The President of the College or the Dean of Instruction

will be glad to confer with persons who wish to have a Provisional College Certificate extended to include industrial arts, speech correction, or the teaching of mentally retarded classes.

PERMANENT COLLEGE CERTIFICATE

A Provisional College Certificate may be made permanent after three years of successful teaching experience, rated at "middle" or better, in the appropriate field in the public schools of the Commonwealth and the satisfactory completion of at least six semester hours of additional preparation of collegiate grade, completed subsequent to the conferring of the baccalaureate degree; one-half of it must be professional and the remainder related to the subjects or subject fields in which the holder is certificated to teach.

Holders of Provisional College Certificates issued after September 1, 1935, will be required to present evidence of having completed an approved course in visual and sensory techniques before the certificates may be converted into permanent form. The regulation is not retroactive. Persons who received Provisional College Certificates prior to September 1, 1935, will have them made permanent on the basis of the requirements in effect when they were issued.

Subsequent to September 1, 1943, all permanent certificates issued by the Department of Public Instruction to teach in the public schools of the Commonwealth, shall, in addition to present regulations, require a basic course in the history of the United States and of Pennsylvania.

Subsequent to September 1, 1944, all certificates issued by the Department of Public Instruction to teach in the public schools of the Commonwealth, shall, in addition to the present regulations, require a basic course in the history of the United States and of Pennsylvania.

A Permanent College Certificate entitles the holder to teach for life the subject or subject fields indicated on its face.

RELEASE OF CERTIFICATES

Certificates will be held by the Registrar until a Release Card, officially signed by the superintendent or supervising principal of the district employing the teacher, has been presented. Graduates should obtain these cards from the Registrar's office, have them properly filled in, and return them to the College as soon as they have been elected to positions as teachers. This is done by the College to aid students in their placement.

Teachers-in-service who complete degrees should be sure to comply with this procedure immediately, so that they may begin teaching on their Provisional College Certificates, thereby receiving experience credit toward making such certificates permanent.

TRANSCRIPTS OF CREDITS

One transcript of credits earned at the College will be issued free. A charge of \$1.00 is made for each subsequent transcript. Official transcripts, obtainable from the Registrar upon the written request of the student, will be sent only to the State Department of Public Instruction for use in obtaining certificates or to an institution to which credits are to be transferred.

Only the work done at the State Teachers College at California will be included in the transcript. Work taken at another institution should be certified directly from that institution.

PLACEMENT SERVICE

As part of its public service, the College maintains a placement office. Its purpose is to aid students and graduates in obtaining desirable positions as teachers and to assist school officials in locating well-qualified teachers who fit the requirements of vacancies in the schools of the service area of the College.

All students are required to enroll with the placement office when they complete their student teaching. Although the Service does not guarantee positions, records filed by the registrants open opportunities that might not otherwise be available.

Alumni are urged to use this service. Those who have been registered should, especially if they wish to advance themselves, keep their credentials up-to-date.

THE CURRICULUMS

There are three vital aspects to teacher-preparation curriculums—general education, specialized professional training, and practical experience in student teaching. The curriculums in force in all the State Teachers Colleges in Pennsylvania are designed to satisfy this conception of teacher-training.

The Board of Teachers College Presidents, with the approval of the Superintendent of Public Instruction, has, over a period of years, enriched the curriculums of the Colleges by frequent rearrangements of courses and the addition of a greater range in arts and science electives. Flexibility and freedom of selection characterize the present curriculums.

THREE FOUR-YEAR PROGRAMS

The curriculums offered at the College are in conformity with the general state plan. Three different curriculums are available—the elementary, the secondary, and the industrial arts, each with several possible specialization areas, described on the following pages. Each curriculum requires four years' study and leads to the degree of Bachelor of Science in Education. Each requires the satisfactory completion of a minimum of 128 semester hours.

Although the present curriculums are changed considerably from those in effect previously, teachers-in-service who are working toward their degrees need not be disturbed by the existing requirements. Their previous work will be adjusted to the present patterns without loss of credit, unless they change from one curriculum to another.

ELEMENTARY CURRICULUM

This is a four-year program for students who wish to prepare to teach the subjects of the elementary school. It provides opportunity also for the emphasizing of certain aspects of elementary education, such as Early Childhood Education, Intermediate Education, Rural Education, and Special Education (Mentally Retarded Classes and Speech Correction). The Provisional College Certificate, which is issued by the State Department of Public Instruction upon the completion of this curriculum, entitles the holder to teach in grades one to six or one to eight, depending upon the organization of the school district.

PROGRAM OF COURSES FOR THE ELEMENTARY CURRICULUM

For administrative reasons the sequence of courses is subject to change. The first number after each course refers to clock hours, while the second indicates the semester hours of credit.

FIRST SEMESTER		SECOND SEMESTER	
English Composition, including Library	4 3	English Composition	3 3
Fundamentals of Speech	3 3	Principles of Geography	3 3
Biological Science Survey	4 3	Biological Science Survey	4 3
Health and Physical Education for Freshmen	3 1	Health and Physical Education for Freshmen	3 1
Place and Purpose of Education in the Social Order	3 3	History of Civilization	4 4
Appreciation of Music	3 2	Appreciation of Art	3 2
Orientation	1 -		
Total	21 15	Total	20 16

THIRD SEMESTER		FOURTH SEMESTER	
English Literature	3 3	American Literature	3 3
Economic Geography	3 3	Principles of Sociology or Economics	3 3
General Psychology	3 3	Educational Psychology	3 3
Physical Science Survey	4 3	Physical Science Survey	4 3
Health and Physical Education for Sophomores	3 1	Health and Physical Education for Sophomores	3 1
Elective	3 3	Electives	4 4
Total	19 16	Total	20 17

FIFTH SEMESTER		SIXTH SEMESTER	
U. S. History before 1865	3 3	History of Pennsylvania	2 2
Teaching of Reading	3 3	Teaching of English, including Handwriting	4 3
Music in Primary Grades	4 2	Music in Intermediate Grades	3 2
Elementary School Art	4 2	Problems in Art Education	3 2
Curriculum in Arithmetic	2 2	U. S. History since 1865	3 3
School Law	1 1	Health and Physical Education for Juniors, including Teaching of Health	3 1
Health and Physical Education for Juniors, including Teaching of Health	3 1	Elective	3 3
Elective	3 2		
Total	23 16	Total	21 16

SEVENTH SEMESTER		EIGHTH SEMESTER	
Educational Measurements	2 2	Student Teaching and Conferences	18 12
Curriculum in Elementary Science	4 3	Curriculum Materials—Selection and Adaptation	4 3
Visual Education	2 1		
Children's Literature	3 3		
Evolution of the American Public School	2 2		
Ethics	3 3		
American Government	3 3		
Physical Activity for Seniors	3 0		
Total	22 17	Total	22 15

SECONDARY CURRICULUM

This curriculum leads to certification for teaching specific subjects in a senior high school or in a regularly organized junior high school. To insure the specialized preparation essential to effective teaching, it places emphasis on the arts and sciences, but at the same time gives adequate attention to professional courses. Students are required to choose two areas of study in keeping with their particular interests. These are indicated on pages 54-55.

PROGRAM OF COURSES FOR THE SECONDARY CURRICULUM

For administrative reasons the sequence of courses is subject to change. The first number after each course refers to clock hours, while the second indicates the semester hours of credit.

FIRST SEMESTER		SECOND SEMESTER	
English Composition, including Library	4 3	English Composition	3 3
Fundamentals of Speech	3 3	Principles of Geography	3 3
Biological Science Survey	4 3	Biological Science Survey	4 3
Health and Physical Education for Freshmen	3 1	Health and Physical Education for Freshmen	3 1
Place and Purpose of Education in the Social Order	3 3	History of Civilization	4 4
Appreciation of Music	3 2	Appreciation of Art	3 2
Orientation	1 -		
Total	21 15	Total	20 16

THIRD SEMESTER		FOURTH SEMESTER	
English Literature	3 3	American Literature	3 3
Economic Geography	3 3	Principles of Sociology or Economics	3 3
General Psychology	3 3	Educational Psychology	3 3
Physical Science Survey	4 3	Physical Science Survey	4 3
Health and Physical Education for Sophomores	3 1	Health and Physical Education for Sophomores	3 1
Major Field Elective	3 3	Major or Minor Field Electives	4 4
Total	19 16	Total	20 17

FIFTH SEMESTER		SIXTH SEMESTER	
American Government	3 3	Problems of Secondary Education	2 2
Educational Measurements	2 2	History of United States, including Pennsylvania	3 3
School Law	1 1	Health and Physical Education for Juniors	3 1
Health and Physical Education for Juniors	3 1	Major and Minor Field Electives	10 10
Major and Minor Field Electives	10 10		
Total	19 17	Total	18 15

SEVENTH SEMESTER		EIGHTH SEMESTER	
Evolution of the American Public School	2 2	Student Teaching	18 12
Visual Education	2 1	Curriculum Materials—Selection and Adaptation	4 3
Ethics	3 3		
Physical Activity for Seniors	3 0		
Major and Minor Field Electives	10 10		
Total	20 16	Total	22 15

INDUSTRIAL ARTS CURRICULUM

This special four-year curriculum provides shop courses in wood, metal, printing, ceramics, machining, and electricity, together with preparation in basic arts and science subjects and the professional field. Persons who complete this curriculum are qualified to teach industrial arts and one arts or science subject in the public high schools of Pennsylvania.

The College has been designated by the Department of Public Instruction as the Western Pennsylvania center for the education of industrial arts teachers.

PROGRAM OF COURSES FOR THE INDUSTRIAL ARTS CURRICULUM

For administrative reasons the sequence of courses is subject to change. The first number after each course refers to clock hours, while the second indicates the semester hours of credit.

FIRST SEMESTER		SECOND SEMESTER	
English Composition, including Library	4 3	English Composition	3 3
Place and Purpose of Education in the Social Order	3 3	Fundamentals of Speech	3 3
College Algebra (App. Math.)	4 3	Health and Physical Education for Freshmen	3 1
Health and Physical Education for Freshmen	3 1	General Physics (App. Sci.)	6 4
Intro. Mechanical Drawing	4 2	Graphic Arts Design	4 2
Fund. of Woodworking	8 4	Fund. of Graphic Arts	8 4
Orientation	1 —		
Total	27 16	Total	24 16
THIRD SEMESTER		FOURTH SEMESTER	
General Psychology	3 3	English or American Literature	3 3
Social and Industrial History of U. S.	3 3	Principles of Economics	2 2
Sheetmetal Drafting	4 2	Educational Psychology	3 3
Fund. of Sheetmetal	8 4	Fund. of Machine Shop	8 4
Health and Physical Education for Sophomores	3 1	Machine Drawing and Design	4 2
Minor Field Elective	3 3	Health and Physical Education for Sophomores	3 1
		Minor Field Elective	3 3
Total	24 16	Total	26 18
FIFTH SEMESTER		SIXTH SEMESTER	
American Government	3 3	Principles and Practices of Industrial Arts	3 3
School Law	1 1	Drawing and Design	4 2
Educational Measurements	2 2	Health and Physical Education for Juniors	3 1
Electrical Drafting	4 2	Minor Field Electives	5 5
Fund. of Electricity	8 4	Advanced Woodworking	8 4
Health and Physical Education for Juniors	3 1		
Minor Field Elective	3 3		
Total	24 16	Total	23 15
SEVENTH SEMESTER		EIGHTH SEMESTER	
Visual Education	2 1	Student Teaching	18 12
History of United States including Pennsylvania	2 2	Curriculum Materials — Selection and Adaptation	4 3
Drawing and Design	4 2		
Elective Shop	8 4		
Elective Shop	8 4		
Physical Activity for Seniors	3 0		
Minor Field Elective	3 3		
Total	30 16	Total	22 15

INDUSTRIAL ARTS ELECTIVES

In the foregoing curriculum for the preparation of teachers of industrial arts, students must take 14 semester hours in drawing and design and 32 in shop courses. These must be selected, with guidance from the Dean of Instruction, from among the following courses which are completely described on pages 69-98 of this Catalog:

DRAWING AND DESIGN COURSES

D & D 1	Introductory Mechanical Drawing	2 credits
D & D 2	Sheetmetal Drafting	2 credits
D & D 23	Graphic Arts Design	2 credits
D & D 24	Machine Drawing and Design	2 credits
D & D 35	Electrical Drafting	2 credits
D & D 36	Industrial Arts Design	2 credits
D & D 37	Shop Sketching	2 credits
D & D 48	Architectural Drawing and Design	2 credits
D & D 49	Advanced Mechanical Drawing	2 credits
D & D 50	Art Structure	2 credits
D & D 51	Drawing and Painting	2 credits

SHOP COURSES

Shop 1	Fundamentals of Woodworking	4 credits
Shop 2	Fundamentals of Sheetmetal	4 credits
Shop 23	Fundamentals of Graphic Arts	4 credits
Shop 24	Fundamentals of Machine Shop	4 credits
Shop 35	Fundamentals of Electricity	4 credits
Shop 36	Advanced Woodworking	4 credits
Shop 37	Fundamentals of Ceramics	4 credits
Shop 47	Advanced Machine Shop	4 credits
Shop 48	Advanced Electric Shop	4 credits
Shop 49	Advanced Graphic Arts	4 credits
Shop 50	Fundamentals of Art Metal	4 credits
Shop 51	Patternmaking	4 credits
Shop 52	Advanced Sheetmetal Shop	4 credits
Shop 53	Advanced Typography and Book Design	4 credits
Shop 54	Advanced Art Metal	4 credits
Shop 55	Special Machine Shop	4 credits
Shop 56	Fundamentals of Welding	4 credits
Shop 57	Cold Metal (Wrought Iron)	4 credits
Shop 58	Fundamentals of Weaving	4 credits
Shop 59	Comprehensive General Shop	4 credits
Shop 60	Metal Work	4 credits
Shop 61	Elementary Industrial Arts Activities	3 credits
Shop 62	Textiles	2 credits
Shop 63	Graphic Presentation and Bookbinding	4 credits
Shop 64	Radio	4 credits
Shop 65	Costume Jewelry	4 credits
Shop 66	Fundamentals of Leatherwork	4 credits
Shop 67	Introduction to Plastics	4 credits
Shop 68	Crafts	4 credits

THE ELECTIVE AREAS

Students are expected to elect their areas of specialization (major and minors) during their first semester. The final choice is made during the second semester of the Sophomore year. All changes require the approval of the Dean of Instruction and the Division Head.

ELEMENTARY SCHOOL TEACHING

Students in the Elementary Curriculum may qualify for the degree of Bachelor of Science in Education by satisfactorily completing the required subjects in the basic curriculum, a total of 116 semester hours, and 12 semester hours of electives.

They may elect one area for specialization. Those who select one of the aspects of Special Education must, in order to meet certification requirements, take work slightly beyond the minimum needed for a degree. This may be done through summer study. The areas of specialization for the Elementary Curriculum, the content of which is outlined on the following pages, are

Early Childhood Education	Special Education:
Intermediate Education	Mentally Retarded Children
Rural Education	Speech Correction

SECONDARY SCHOOL TEACHING

Students in the Secondary Curriculum must offer a minimum of 24 credits in a first field and at least 18 credits in a second field. The content of the areas for specialization for students preparing to teach in high schools is outlined with considerable exactness on the following pages and the courses must be taken as indicated. The elective areas for specialization available are:

Aeronautics	Mathematics
Biology	Physics
Chemistry	Social Studies—History
English	Social Studies—Social Science
General Science	Speech
Geography	Speech Correction

INDUSTRIAL ARTS TEACHING

Students in the Industrial Arts Curriculum qualify for the degree of Bachelor of Science in Education by satisfactorily completing the required subjects of the basic curriculum, which provides specialization in shop and drawing. To obtain broader certification, they must earn, in addition, 18 credits in an elective area in the subject or field which they have already chosen.

If the elective area chosen is not one in which some required work from the basic curriculum may be included for certification, students making such a selection will be required to take a minimum of 18 semester hours in one elective area, in keeping with the pattern prescribed for Secondary School Teaching. These elective areas are now open to students in Industrial Arts:

Aeronautics	Mathematics
Biology	Physics
Chemistry	Social Studies—History
English	Social Studies—Social Science
General Science	Speech
(30 credits)	Speech Correction
Geography	

Students in this curriculum may, with the approval of the Head of the Industrial Arts Division, take Elementary Industrial Arts as a field of specialization. The completion of this elective will entitle students to teach and supervise industrial arts in any grade of the public schools of this state.

DRIVER EDUCATION AND TRAINING

Effective September 1, 1948, a student who holds or will hold a valid Certificate to teach will be issued an additional temporary standard certificate to teach Highway Safety Education if the student has completed three semester hours in a course in Driver Education and Training. The temporary standard certificate so issued will become permanent after two years of successful experience in the field and the completion of three semester hours in General Safety Education.

Effective September 1, 1950, nine semester hours will be required to cover this field; in 1951, twelve semester hours.

The American Automobile Association has approved the Highway Safety Education Courses offered at this college.

CONTENT OF AREAS OF SPECIALIZATION

ELEMENTARY SCHOOL TEACHING

GENERAL ELEMENTARY
(Grades 1 to 6 inclusive)

Students who do not elect one of the areas of elementary specialization will have Elementary written on their certificate. They must, however, take 12 credits in elective courses.

Required: Total, 12 credits

These may be selected from courses listed under Early Childhood Education, Intermediate Education, or Rural Education, and from courses in academic fields or special curriculums.

EARLY CHILDHOOD EDUCATION

(Nursery School, Kindergarten and Grades 1, 2, and 3)

Required: Total, 12 credits

Early Childhood Education 3 credits

and additional courses, to the extent of nine credits, from the following:

Child Adjustment	3 credits
Child Psychology	3 credits
Diagnostic and Remedial Instruction	3 credits
Education for Family Living	3 credits
Mental Hygiene	3 credits
Safety Education	2 credits
School Finance	1 credit
Teaching of Arithmetic	3 credits
Red Cross First Aid Standard Course and Advanced Course	2 credits
Red Cross Home Nursing	1 credit
Clinical Psychology	variable credits
Workshop	3 credits
Education of Exceptional Children	3 credits

and courses in academic fields and special curriculums approved by the College, provided that to achieve breadth of background not more than six semester hours may be selected from the courses listed above and not more than six may be selected from any one academic field or special curriculum.

Student Teaching in the Elementary School (12 credits) must be completed in grades below the fourth. Curriculum Materials—Selection and Adaptation (3 credits) must be at the Early Childhood level. Three of the 12 credits required for student teaching may be acquired by observation and participation at other age levels of the elementary field.

INTERMEDIATE EDUCATION

(Grades 4, 5, and 6)

Required: Total, 12 credits

Teaching American History and
Government 3 credits

and additional courses, to the extent of nine credits, from electives approved for Early Childhood Education.

In addition, students wishing to specialize in this area must, in the core curriculum work, take Student Teaching in the Elementary School in grades above the third (12 credits) and Curriculum Materials—Selection and Adaptation for the Intermediate Grades (three credits). Three of the 12 credits required in student teaching may be acquired by observation and participation at other age levels of the elementary field.

RURAL EDUCATION

Required: Total, 12 credits

Rural School Problems 3 credits

and additional courses, to the extent of nine credits, from electives approved for Early Childhood Education.

In addition, students wishing to specialize in this area, must, in the core curriculum work, take Student Teaching in the Elementary School under rural school conditions (12 credits); and Curriculum Materials—Selection and Adaptation in Rural Schools or in grades 1 to 6 or 1 to 8 under conditions approximating rural schools (three credits). Three of the 12 credits required in student teaching may be acquired by observation and participation in Early Childhood Education or Intermediate Education.

SPECIAL EDUCATION

(Mentally Retarded Classes)

Required: Total, 24 credits

		ELECTIVES:	
Psychology of Exceptional Children	3 credits	Education of Exceptional Children	3 credits
Diagnostic and Remedial Instruction or Mental Hygiene	3 credits	Mental or Educational Hygiene	3 credits
Art Crafts for Special Classes	3 credits	Clinical Psychology	3 credits
Advanced Art Crafts	3 credits	Abnormal Psychology	4 credits
Special Class Student-Teaching	1 credit	Mental Tests	4 credits
Special Class Methods	2 credits	Speech Correction	3 credits
		Mental Tests (Individual)	3 credits
		Corrective Physical Education	2 credits

Students who choose this area of specialization may take all 12 credits of electives in Special Education courses. In addition, they may take six more semester hours by eliminating from the core cur-

riculum, with the approval of the Dean of Instruction, any two of the following three aspects: Ethics, Curriculum Materials—Selection and Adaptation; three credits of Student Teaching in the Elementary School. Through this arrangement students will be able to earn within the minimum requirements for a degree 18 of the 24 credits needed for teaching mentally retarded classes. They will be graduated with regular elementary certification, and will be able to complete special class certification in one summer session of study, either prior to or following their graduation.

SPECIAL EDUCATION
(Speech Correction)

Required:

Total, 24 credits

Psychology of Exceptional Children	3 credits	ELECTIVES:	
Diagnostic and Remedial Instruction or Mental Hygiene	3 credits	Mental Tests (Individual)	3 credits
Speech Problems	2 credits	Advanced Speech Clinic	2 credits
Elementary Speech Clinic	2 credits	Speech Pathology	3 credits
Psychology of Speech	3 credits	Special Methods in Speech Correction	3 credits
		Phonetics	2 credits
		Clinical Psychology	3 credits
		Mental Tests (group)	3 credits
		Voice and Diction	2 credits

Students who choose this area of specialization may take all 12 credits of electives in Special Education courses. In addition, they may take six more semester hours by eliminating from the core curriculum, with the approval of the Dean of Instruction, any two of the following three aspects: Ethics; Curriculum Materials—Selection and Adaptation; three credits of Student Teaching in the Elementary School. Through this arrangement, students will be able to earn within the minimum requirements for a degree 18 of the 24 credits needed to become a speech correctionist. They will be graduated with regular elementary certification, and will be able to complete speech correction certification in one summer session of study, either prior to or following their graduation.

SECONDARY SCHOOL TEACHING

AERONAUTICS

(Total for First Field, 24 credits; for Second Field, 18 credits)

RECOMMENDED:		ELECTIVES:	
Aviation Mathematics	3 credits	Aircraft Engines	6 credits
Aircraft Communications and Regulations	3 credits	Identification of Aircraft	3 credits
General Service and Structure of Aircraft	3 credits	Climatology	3 credits
Aerial Navigation	3 credits	Commercial Air Transportation	3 credits
Meteorology	3 credits	Flight Experience	3 credits
Aerodynamics and Theory of Flight	3 credits		

Courses in Aeronautics are not scheduled regularly. Inquiries should be directed to the Dean of Instruction.

BIOLOGY

(Total for First Field, 28 credits; for Second Field, 22 credits)

Students specializing in Biology shall take the laboratory courses in General Botany or General Zoology instead of the Biological Survey Courses. They will satisfy the physical science requirement of the basic curriculum by taking Inorganic Chemistry instead of the Physical Science Surveys.

Students using Biology as the first field of specialization shall take the recommended courses listed and not fewer than 12 semester hours from the elective courses. In the second field of specialization, the recommended courses and not fewer than six semester hours of elective courses should be completed.

RECOMMENDED:

General Botany (Vascular)	4 credits	ELECTIVES:	
General Botany (Non-Vascular)	4 credits	Anatomy (Comparative)	3 credits
General Zoology (Invertebrates)	4 credits	Bacteriology	3 credits
General Zoology (Vertebrates)	4 credits	Ecology	3 credits
		Entomology	3 credits
		Embryology	3 credits
		Field Botany (Local Flora)	3 credits
		Field Zoology	3 credits
		Forestry	3 credits
		Hereditry	3 credits
		Histology	3 credits
		Ornithology	3 credits
		Parasitology	3 credits
		Physiology	3 credits
		Plant Propagation	3 credits

CHEMISTRY

(Total for First Field, 24 credits; for Second Field, 18 credits)

Instead of taking the Physical Science Surveys, students specializing in Chemistry shall take Physics 1 and 2.

The Biological Science Survey or the equivalent number of hours in Botany and Zoology is required of students taking Chemistry as the first field of specialization.

RECOMMENDED:

Inorganic Chemistry	8 credits	ELECTIVES:	
Qualitative Analysis	3 credits	Organic Chemistry II	3 credits
Quantitative Analysis	3 credits	Industrial Chemistry	3 credits
Organic Chemistry I	4 credits	Physical Chemistry	3 credits
		Biochemistry	3 credits
		Chemistry of Food and Nutrition	3 credits
		Photography	3 credits

ENGLISH

(Total for First Field, 24 credits; for Second Field, 18 credits)

REQUIRED:

English Composition	6 credits
English Literature	3 credits
American Literature	3 credits

RECOMMENDED:

English Philology	3 credits
Advanced Composition	3 credits

ELECTIVES:

Shakespeare	3 credits
Short Story	3 credits
Modern Novel	3 credits
World Literature	3 credits
Contemporary Poetry	3 credits
Journalism	2-3 credits
Pre-Shakespearean Literature	2 credits
Romantic Literature	3 credits
The Essay	3 credits
Modern Drama	3 credits
Nineteenth Century Novel	3 credits
American Poetry	3 credits
Eighteenth Century Literature	3 credits
Victorian Prose and Poetry	3 credits

GENERAL SCIENCE

(Total for First or Second Field, 30 credits)

The work required in this field includes courses in Chemistry, Physics, Botany, Zoology, Earth Science, and Mathematics.

GEOGRAPHY

(Total for First Field, 24 credits; for Second Field, 18 credits)

REQUIRED:

Principles of Geography	3 credits
Economic Geography	3 credits

RECOMMENDED:

Geography of United States and Canada	3 credits
Geography of Latin America	3 credits
Geography of Europe	3 credits
Geography of Pacific Realm	3 credits

ELECTIVES:

Geography of Australasia and Africa	3 credits
Commercial and Industrial Geography	3 credits
Meteorology	3 credits
Conservation of Natural Resources	3 credits
Field Courses (to be approved)	3-6 credits
Geographic Influences in American History	3 credits
Geography of Pennsylvania	3 credits
Physiography	3 credits
Trade and Transportation	3 credits
Geography of Asia	3 credits
Climatology	3 credits

MATHEMATICS

(Total for First Field, 24 credits; for Second Field, 18 credits)

REQUIRED:

Recommended Sequence:	None
College Algebra	3 credits
College Trigonometry	3 credits
Analytic Geometry	3 credits
Differential and Integral Calculus	6 credits

ELECTIVES:

Advanced College Algebra	3 credits
Synthetic Geometry	3 credits
Spherical Trigonometry and Navigation	3 credits
Statistics	3 credits
History of Mathematics	3 credits

PHYSICS

(Total for First Field, 24 credits; for Second Field, 18 credits)

Students specializing in this field must demonstrate competence in mathematics adequate to carry courses in physics.

Instead of the Physical Science Survey, students specializing in physics shall take Chemistry 1 and 2, and the Biological Science Survey course or the equivalent number of semester hours in Botany and Zoology.

RECOMMENDED:

General Physics	8 credits
Mechanics	3 credits
Magnetism and Electricity	3 credits

ELECTIVES:

Heat	3 credits
Optics	3 credits
Sound	3 credits
Radio Communications	3 credits
Physical Measurements	3 credits
Astronomy	3 credits
Photography	3 credits
Modern Physics	3 credits
Aeronautics	4 credits

SOCIAL STUDIES: EMPHASIS ON HISTORY

(Total for First Field, 28 credits; for Second Field, 22 credits)

REQUIRED:

History of Civilization	4 credits
Principles of Economics	3 credits
Principles of Sociology	3 credits
American Government	3 credits
History of Pennsylvania	3 credits

ELECTIVES:

United States History to 1865	3 credits
United States History since 1865	3 credits
European History	6 credits
Social and Industrial History of the United States	3 credits
Renaissance and Reformation	3 credits
Contemporary European History	3 credits
Contemporary American History	3 credits
History of England	3 credits
History of Latin America	3 credits
History of the Far East	2 credits

SOCIAL STUDIES: EMPHASIS ON SOCIAL SCIENCE

(Total for First Field, 28 credits; for Second Field, 22 credits)

REQUIRED:

History of Civilization	4 credits
Principles of Economics	3 credits
Principles of Sociology	3 credits
American Government	3 credits
History of United States and Pennsylvania	3 credits

ELECTIVES:

Contemporary Economic Problems	3 credits
Municipal Government	3 credits
Comparative Government	3 credits
Evolution of Social Institutions	3 credits
Rural Sociology	3 credits
Ethics	3 credits
Industrial Relations	2 credits
Introduction to Philosophy	3 credits
Social Problems	3 credits

SPEECH

(Total for First Field, 24 credits; for Second Field 18 credits)

REQUIRED:		ELECTIVES:	
Fundamentals of Speech but not count as part of the elective field credits	3 credits	Community Dramatics and Pageantry	3 credits
		Stagecraft and Scenic Design	2 credits
		Costuming and Make-up	2 credits
		Creative Dramatics	2 credits
		Psychology of Speech	2 credits
RECOMMENDED:		Elementary and Advanced Speech Clinic	4 credits
Speech Problems	2 credits	Speech Pathology	3 credits
Play Production	2 credits	Argumentation and Debate	2 credits
Interpretative Reading	2 credits	Voice and Diction	2 credits
Phonetics	2 credits		

Students pursuing the four-year Secondary Curriculum may elect speech correction and, on the satisfactory completion of twenty-four hours receive certification as speech correctionists. See page 56 for required courses.

INDUSTRIAL ARTS TEACHING

The content of the arts and science elective areas for students in the industrial Arts Curriculum is the same as that indicated on page 52 under Secondary School Teaching.

The one elective area which, in addition to the courses required, may be taken by students in this curriculum, upon approval of the Head of the Industrial Arts Division, is:

ELEMENTARY INDUSTRIAL ARTS

(Total Required, 18 credits)

Child Psychology	3 credits	Student Teaching	
Elementary School Practices	2 credits	One-third of the normal student teaching assignment, or 4 credits, must be done in an elementary industrial arts laboratory.	
Drawing and Painting	3 credits		
Theory and Content of Elementary Industrial Arts	3 credits		
Elementary Ceramics (or Fundamentals of Ceramics, 4 credits)	2 credits		
Textiles	2 credits		
Elementary Industrial Arts Activities	3 credits		

COLLEGE EXPENSES

FEES, DEPOSITS, AND REPAYMENTS

(For the year 1950-51)

Uniform fees, deposits, and repayments established for all State Teachers Colleges in Pennsylvania, prevail at California. All business transactions are governed by the regulations in the following paragraphs.

The schedule of fees, deposits, and repayments is subject to change as authorized by the Boards of Trustees of the State Teachers Colleges and approved by the Superintendent of Public Instruction.

CONTINGENT FEES

For Full-Time Students

Curriculums		Yearly Fees
Elementary	\$45.00 a semester	\$ 90.00
Secondary	45.00 a semester	90.00
Industrial Arts	63.00 a semester*	126.00

*The additional special curriculum fee included in this amount covers the cost of materials, supplies, equipment and special services used in the laboratories and shops.

For Part-Time Students*

Elementary	a semester hour	\$7.50
Secondary	a semester hour	7.50
Industrial Arts	\$6.00 and a semester hour	7.50

*Students taking seven or fewer credits are rated as part-time. The special curriculum contingent fee is pro-rated on the basis of an eighteen semester hour load.

For Summer Session Students

Elementary	a semester hour	\$7.50
Secondary	a semester hour	7.50
Industrial Arts	\$6.00 and a semester hour	7.50

Minimum charge for Summer Session students is \$22.50.

The contingent fee covers registration, the keeping of the students records and the library, student welfare, health services (other than extra nurse and quarantine), and laboratory fees.

LATE REGISTRATION FEE

Each student who enrolls after the date officially set for registration will be charged an additional contingent fee of \$1.00 per day until he is in regular attendance, provided that the total amount of the late registration fee shall not exceed \$5.00. The same regulation applies to approved intra-semester payments.

HOUSING FEES

Full-time Students	(\$180.00 a semester)	Yearly	\$360.00
Pre-session			30.00
Six-Week Summer Session			60.00
Post-session			30.00

This fee covers room and board in the College dormitory and limited laundry. No reduction in the rates will be made for laundry done at home or for the absence of a student who goes home for several days at one time.

A student may, at the discretion of the President, occupy a double room alone by paying an additional \$36 per semester, of \$12.00 for a summer session.

VETERANS' PAYMENTS

Veterans may pay their housing fees according to the following schedule:

September 11, 1950	January 23, 1951
(Registration)	(Registration)
October 6, 1950	February 16, 1951
November 10, 1950	March 9, 1951
December 8, 1950	April 6, 1951

GUEST MEALS

The charges for individual meals for guests are as follows: breakfast, 40 cents; lunch, 50 cents; dinner, 75 cents.

ADVANCE RESERVATION DEPOSIT

A deposit of \$10.00 must be paid when a room reservation is requested. This is a guarantee of the intention of the student to enter the College for the term or semester designated. It is deposited with the Department of Revenue to the credit of the student's account. If, however, the student notifies the College at least three weeks before the opening of the semester that he is unable to enter, or if the student is rejected by the College, repayment of this deposit will be made, through the Department of Revenue, on application

from the student through the College authorities. Check or money order for this deposit should be drawn to the Commonwealth of Pennsylvania.

ACTIVITY FEE

All Full-time students	\$15.00 a semester	\$30.00
All Summer Session students for each	three weeks)	\$ 1.50

This fee, under the control of the Student Activities Association as approved by the Board of Trustees, covers membership in the Association, admission to lectures, entertainments, and athletic contests, subscription to the college newspaper, and certain other activities as defined by the Student Congress. Part-time students, including those taking extension courses, may secure the benefits of the activity program by paying it. Checks should be made payable to the Student Activities Association. This fee is due on or before the date of registration.

SUMMARY OF ANNUAL FEES

Curriculum	Contingent	Housing	Activity
Elementary	\$ 90.00	\$360.00	\$30.00
Secondary	90.00	360.00	30.00
Industrial Arts	126.00	360.00	30.00

TIME OF PAYMENT FOR THE ACADEMIC YEAR 1950-51

September 11, 1950—Payment for first half of first semester.

November 10, 1950—Payment for second half of first semester.

January 23, 1951—Payment for first half of second semester.

March 30, 1951—Payment for second half of second semester.

Summer Session fees payable at opening of each session.

OTHER FEES

(For the year 1950-51)

FEES FOR OUT-OF-STATE STUDENTS

Students whose legal residence is outside of the State of Pennsylvania shall be charged at the rate of \$7.50 per semester hour.

If an out-of-state student is enrolled in a special curriculum, he shall pay the special curriculum fee, in addition to the fee of \$7.50 per semester hour.

DAMAGE FEE

Students shall be responsible for damages, breakage or loss, and the return of College property.

TRANSCRIPT FEE

The first official transcript of record is issued without cost. A fee of \$1.00 is charged for each subsequent transcript.

INFIRMARY FEE

A boarding student who is ill is entitled to three days of infirmary services without charge. After that time the charge is \$1.00 a day.

Day students admitted to the infirmary are charged \$2.00 a day from the time of admission. This covers board and nursing service.

In no case does the infirmary fee include special nursing care or medical service.

DEGREE FEE

A fee of \$5.00 must be paid by each candidate for a degree. No student is considered to have met the requirements for graduation until this fee has been paid. This fee is payable upon notification from the Registrar, that the student is cleared for graduation.

DELINQUENT ACCOUNTS

All fees are payable in advance. No student may be enrolled or graduated, or receive semester grade reports or a transcript of his record until all previous charges have been paid.

COST OF BOOKS

The estimated cost of textbooks is \$20 to \$30 a semester for students in the Elementary and Secondary Curriculums. Students in the Industrial Arts Curriculum may expect to spend \$75 for the first semester and \$45 each succeeding semester. Students may purchase books, materials, and other supplies through the College Book Store.

REPAYMENTS

Repayment will not be made to a student who has been dismissed temporarily or indefinitely suspended, or who has voluntarily withdrawn from the College; repayment of any part of the advance registration deposit will not be made for

any cause whatsoever, except when a student has given notice of intention to withdraw at least three weeks before the College opens or has been rejected by the College.

Repayment will be made for personal illness, when this is certified by an attending physician or for other reasons approved by the Board of Trustees, to the amount of the housing and contingent fees paid by the student for the part of the semester which he does not spend in the College.

PAYMENT OF BILLS

All bills, including the contingent fee, board and room, and special fees, must be paid at the office of the Bursar. Book store business is conducted on a cash basis. Bank drafts, checks, and express and post office money orders are accepted. They should be drawn to the Commonwealth of Pennsylvania.

The Student Activity Fee must be paid on or before registration day, at the office of the Bursar, according to a regulation passed by the Student Congress and approved by the Board of Trustees.

MATRICULATION CARDS

Upon completing registration, students are given matriculation cards which entitle them to admission to the classes for which they have registered. These cards must be carried at all times and presented when requested.

DESCRIPTION OF COURSES

The required and elective courses available at California are listed under the several divisional headings. Each course, when offered during the regular session, is taught for 18 weeks. The number of clock hours of instruction each week for the semester hours of credit is indicated. The clock hours listed are minimum; individual colleges, because of special needs or exceptional facilities, occasionally exceed these established standards in the interests of better teacher-education.

Ordinarily courses bearing numbers from 1 to 19 are open to freshmen; those between 20 and 29, to sophomores; those over 30, to upperclassmen. Courses with odd numbers are usually given during the first semester, and those with even numbers in the second semester, unless for administrative reasons a change is necessary.

When courses cover two semesters, they usually carry the same titles and are numbered consecutively; thus, Chemistry 1, 2. As the first parts of such courses are seldom given during a second semester, students are advised to plan their programs accordingly, so that there will be no difficulty about meeting the requirements of areas for concentration or for graduation.

Not all the courses listed in this section are given in any one semester or even in any one year. Courses may even be withdrawn without notice. The hours and location of classes offered in any semester will be published or posted in a schedule at registration.

FINE ARTS DIVISION

EDWIN E. HALSTEAD, Chairman
BETSEY M. HAZEN

ART

1. History and Appreciation of Art two credits

A survey of art through the ages to develop a background for an understanding of contemporary art, as well as an appreciation of art in the home and community. Representative examples of architecture, painting, sculpture, and the minor arts are analyzed.

Three lectures each week.

01. Preparatory Art no credit

A non-credit course in the principles and techniques of art practices, designed to prepare students who have had limited or no art experience for entrance into Art 21 and 22. Required of all students whose background in art is insufficient to enable them to pursue the professional courses with profit.

Two laboratory hours each week.

11. Introduction to Color and Design two credits
 An introductory course in the study of color and design, as it applies to every day living. It includes interior decoration, costume design, textiles and crafts. Two class and two laboratory hours each week.
21. Elementary School Art two credits
 Practice in freehand drawing and composition in various mediums; a study of the principles of design and color, with application to creative problems. Two class and two laboratory hours each week.
22. Problems in Art Education two credits
 Development of problems suitable for the elementary grades: illustration, creative design, bookbinding, clay modeling and soap carving, posters, lettering, potato and linoleum block printing, and construction in paper, cardboard, cloth, scrap and other materials. Emphasis is placed upon the integration of art education with other school subjects. Three class hours each week.

MUSIC

1. Appreciation of Music two credits
 An opportunity for listening to the best music in its different forms, with attention to the development of music through the ages, to the greatest composers and artists, and to ways and means of cultivating appreciation. Two class hours each week.
01. Preparatory Music no credit
 A non-credit course in music skills, designed to prepare students who have had limited or no music experience for entrance into Music 21. Required of all students whose music background appears to be insufficient for them to pursue the professional courses with profit. Two class hours each week.
21. Music in the Primary Grades two credits
 Designed to prepare the teacher in grades one to three to teach her own music under supervision. It includes the study of suitable rote songs, acquaintance with reading material, and oral and written ear training. The best practical methods are discussed and used in presenting the material. Four class hours each week.
22. Music in the Intermediate Grades two credits
 An advanced course stressing more than ordinarily difficult and interesting work especially the singing of two- and three-part music; designed to prepare and assist the teacher in grades four to six in teaching her own music under supervision. Prerequisite: Music 21. Three class hours each week.

EDUCATION DIVISION

CLAIR B. WILSON, Chairman

CYNTHIA E. BENZING, O. RAY BONTRAGER, EMMA C. CARROLL (MRS.),
 HENRIETTA CARROLL, THOMAS M. GILLAND, EDWIN E. HALSTEAD,
 ROSE GRECO HUGHES (MRS.), ROBERT M. KECK, JOHN F. TAYLOR,
 HAROLD W. TRAISTER

EDUCATION

1. Place and Purpose of Education three credits
 in the Social Order
 The study of the public school as a social institution. The forces and agencies which determine the progress and direction of the school program are examined; the place of the teacher in modern society is evaluated; and the value of educational agencies outside the public schools is emphasized. Directed school visitation is required. Replaces, and is acceptable as credit for, Introduction to Teaching. Three lectures each week.

35. Teaching of Reading three credits
 To acquaint students with reading objectives, activities, and material for the elementary grades and to lead them into realizing the place and function of reading in a school program designed to meet present social conditions. Three lectures and one demonstration hour each week.
36. Diagnostic and Remedial Instruction in Reading three credits
 An examination of the techniques of diagnosing reading difficulties and of determining appropriate remedial treatment. Opportunity is given for observing and participating in procedures in the reading clinic. Prerequisite: The Teaching of Reading. Three lectures each week.
37. Curriculum in Arithmetic two credits
 To acquaint the teacher with the history, philosophy, sociology, psychology underlying number learning. Methods of teaching number understanding and processes are developed in harmony with the most dependable experimentation in this field. Two class hours each week.
38. Teaching of Arithmetic three credits
 The diagnosis of number difficulties and of the remedial teaching of arithmetic in the intermediate grades; application of practical results of recent scientific studies; organization of materials and unit construction. Three class hours each week.
39. Teaching of Elementary School English three credits
 A study of the content of courses in English as taught in the elementary grades and of methods of teaching oral and written composition, principles of grammar, and appreciation of literature. Three class hours each week.
40. Evolution of the American Public School two credits
 A survey of the development of elementary and secondary education in America from the Colonial period to the present, including the influence of industrial and social changes on educational progress, with emphasis on education in Pennsylvania. Two lectures each week.
41. Educational Measurements two credits
 A consideration of the simpler statistical measures, with particular stress on their application to classroom work, and of the principles underlying the construction of valid, reliable objective tests, with practice in the making of classroom tests in the various fields of subject matter. Three class hours each week.
42. Philosophy of Education two credits
 An evaluation of the place of education in some of the well-known philosophies and of the content of various educational philosophies, particularly in their relation to other college courses. Each student is expected to formulate his own ideas of what constitutes modern education. Two lectures each week.
43. Guidance three credits
 Educational, social, and vocational guidance emphasized, with some attention to the meaning, scope, and methods involved in the guidance movement. Three lectures each week.

44. **Problems of Secondary Education** three credits
Resume of the development, organization, and problems of secondary education, including the special functions of the junior high school. Much time is given to admission requirements, ability grouping, programs of study, departmentalization, and plans for promotion.
Three lectures each week.
45. **Kindergarten-Primary Theory** two credits
Study of the aims, principles, organization, and fundamentals of primary education stressing the practical side of an activity school.
Two lectures each week.
46. **Curriculum in Elementary Science** three credits
A survey of the elementary science programs in representative schools of the United States in comparison with that in the Pennsylvania course of study; of the principles of selection, preparation, and use of demonstration materials in teaching elementary science; and of the methods of organization and supervision of flower, nature, and Audubon clubs.
Three lectures and one laboratory hour each week.
47. **School Law** one credit
Consideration of those portions of the Pennsylvania School Laws that affect classroom teachers; analyses of the influences behind school legislation; presentation of State Department interpretations and regulatory measures; and thorough discussion of certification.
One class hour each week.
48. **Visual Education** one credit
Recognition of the psychological principles underlying visual and other sensory aids. Individual students projects presenting suitable sensory teaching materials and a knowledge of an ability to use various types of equipment.
Two classroom hours each week.
49. **Rural School Problems** three credits
Analyses of some of the problems, including curriculum, community relations, and organization and administration of the ungraded school, which confront teachers in small rural schools.
Three lectures each week.
50. **Teaching of Primary Subjects** three credits
In the teaching of spelling, language, geography, and social studies, an evaluation of objectives, and materials; activities; as they are influenced by modern educational theory and psychological knowledge.
Three lectures each week.
51. **New Methods in the Elementary School** three credits
For supervisors and teachers interested in child growth through activities. Opportunities are provided for observation and participation, with emphasis on critical evaluation. The course is of special significance to teachers who, holding the normal school or the standard certificate, are working toward certification in elementary education.
Three lectures each week.
52. **Education for Family Living** three credits
A study of parent education as a function of the school, including the possibilities in parent-teacher and similar associations, school attendance as good-home extension, and the problem parent.
Three lectures each week.
53. **Elementary School Practices** two credits
Theory of the purpose and function of the elementary school, its history, organization, objectives, and practices. Required for certification in the teaching of elementary Industrial Arts.
Two lectures each week.

54. **Teaching of Secondary School Mathematics** three credits
An examination of curriculum tendencies and needs, unit construction, methods, experimentation, and diagnostic and remedial procedures.
Three class hours each week.
55. **Teaching of Secondary School English** three credits
Presentation of specific problems, such as English as a curricular subject, the motivation of composition, functional grammar, proportioning of time to older and more recent literature and to particular classics, and supplementary reading.
Three lectures each week.
56. **Teaching of American History and Government** three credits
A survey of methods and techniques, stressing the profitable use of community resources, the development of healthy civic attitudes, and such specific problems as the grade placement of materials, testing, and procedures for creating sustained interest. Required for specialization in Intermediate Education.
Three lectures each week.
57. **Early Childhood Education** three credits
A study of pre-school, kindergarten, and primary grade activities in the traditional and activity school programs, with a sound evaluation of the practical aspects of the latter. Opportunity is provided for the administering of readiness tests. Required for specialization in Early Childhood Education.
Three lectures each week.
58. **Ethics** three credits
A chronological study of the evolution of ethical thought, viewed both philosophically and scientifically in its bearing on absolute and relative morality. Specific application is made to social behavior, to current public issues, and to the profession of teaching.
Three lectures each week.
59. **Student Publications: Organization and Preparation** two credits
Theory concerning the place of newspapers, yearbooks, magazines, and handbooks in the secondary school program; practice in the selection and preparation of material for these publications. Valuable for sponsors, present or prospective.
Two class hours each week.
60. **Student Teaching in the Elementary School** twelve credits
For candidates for certification in the elementary field. This course must be scheduled during one of the last three semesters before graduation. The campus Laboratory School accommodates most assignees. Pre-requisite: a general quality point average of C. or 1.0.
The student spends full time in actual classroom teaching for a semester of 18 weeks.
61. **Workshop in Education** varying credit
A seminar in which the experienced teacher works on his own pedagogical problems.
62. **Student Teaching in the Secondary School** twelve credits
Teaching, in either or both the areas elected by the student for certification, under the guidance of a staff member and the Director of Student Teaching. Open to seniors only. Pre-requisite: a general quality point average of C, or 1.0.
The student spends full time in actual classroom teaching for a semester of 18 weeks.

71. Modern Methods in Secondary Education three credits

An analysis of the functions of secondary education and of classroom problems, followed up by the presentation of techniques for the solution of such problems advocated by the more recent literature in the field.

Three lectures each week.

80. Student Teaching in Industrial Arts twelve credits

Assignment to designated Industrial Arts shops, with occasional teaching in the student's minor field. Open to seniors only. Prerequisite: a general quality point average of C, or 1.0.

The student spends full time in actual classroom teaching for a semester of 18 weeks.

90. Student Teaching for Teachers-in-Service 1-3 credits

For teachers with three or more years' experience who are candidates for degrees and who have not completed the required number of semester hours in student teaching. After consultation with the Dean of Instruction and the Director of Student Teaching, the student will be assigned to a course suitable to his needs without duplicating courses already accredited. A student who has changed curriculums may not use this course to satisfy the student teaching requirement; he must earn at least six semester hours in accredited student teaching at the appropriate level.

95 Curriculum Materials: Selection and Adaptation three credits

A course closely related to, and to be taken simultaneously with, student teaching, in which analyses of textbooks, courses of study, research studies, and visual and other aids train the student for the preparation of functional instructional materials. Emphasis is placed upon the selection and adaptation of such materials for use in student teaching, as well as in later professional practice.

In the elementary field the areas discussed are arithmetic, art, English, geography, science, and social studies.

The student in the secondary curriculum devotes half the semester to consideration of the problems in his first field of specialization and the other half to those in his second elective.

The Industrial Arts major divides his time between his specialty and his minor elective field.

Required of all students.

Two class hours and two laboratory hours each week.

ORIENTATION

1. Freshman Orientation no credit

Opportunity for help in problems of personal adjustment, as well as for discussions of the history, traditions, and regulations of the College. Required of all entering freshmen.

One hour each week.

PSYCHOLOGY

(Students with special interest in psychology usually do their elective work in speech or in special education.)

21. General Psychology three credits

Recognition of the fundamental bases underlying human behavior, including physiological background for an understanding of the habits and actions of individuals of various age levels.

Three lectures each week.

22. Educational Psychology three credits

The application of psychology to teaching, with particular emphasis on the laws of learning, cultivation of habits of thinking, feeling, and acting, and individual differences. Prerequisite: Psychology 21.

Three lectures each week.

31. Child Psychology three credits

Through the study of child growth, learning, and adjustment, the establishment of a reliable basis for individualizing education, including problems of play, motives, thinking, and social development. Prerequisite: Psychology 22.

Three lectures each week.

32. The Pre-School Child two credits

Presentation of the problems of readiness for first grade work, with experience in the use of tests and inventories. Physical development, schedules for child guidance, and development of essential habits are studied.

Two lectures each week.

33. Adolescent Psychology two credits

Problems of adjustment and development of persons between the ages of eleven and twenty, including discussions of interests, personality, learning, and social life of adolescents.

Two lectures each week.

34. Child Adjustment three credits

Application of mental hygiene to the problems of the elementary school child; consideration of adjustment as it relates to school, home, and community. Prerequisites: Psychology 21 and 22.

Three lectures each week.

36. Psychology of Exceptional Children three credits

Consideration, through case studies, of gifted, dull, delinquent, crippled, and sensorily and otherwise handicapped children. Various types will be brought to class as frequently as possible.

Three lectures each week.

43. Abnormal Psychology three credits

A scientific study, through problem cases, of abnormal behavior, including attention to the characteristics and classification of handicapped and subnormal children.

Three lectures each week.

44. Clinical Psychology three credits

Use of the case method of studying children; observation of and experience with the individual testing of mentality, vision, hearing, motor speed, coordination, and other capacities. Enrollment is limited to small groups.

Three lectures each week.

45. Mental Hygiene three credits

Consideration of the problems of personality development, modern inventories for personal analysis, and theories of guidance in the improvement of certain traits. Each student has an opportunity to analyze his own personality and to apply adjustment principles to school problems. Visits are made to institutions for the care of the delinquent, insane, and feeble-minded. Prerequisites: Psychology 21 and 22.

Three lectures each week.

46. Mental Tests three credits

A study of intelligence, its nature and measurement, and the history and analysis of intelligence testing; practice in giving individual and group mental tests; the application of test results.

Three lectures each week.

50, 51. Practicum in Psychological Clinic varying credits

Case studies; practice in the giving, scoring, and interpretation of mental tests, the making of personal inventories, and the use of clinical instruments. One semester of credit is allowed for each 50 hours of work satisfactorily completed. Maximum credit: six semester hours. Open only to students who have the proper prerequisites and to graduate students specializing in psychological work. Admission by consent of the Director of the Clinic and the Dean of Instruction.

SPECIAL EDUCATION

Psychology courses previously listed under Special Education are now listed only under the Psychology section.

21. Art Crafts for Special Classes three credits
 Studies in the sources, design, and manipulation of various materials suited to handwork, including projects in wood, leather, metal, cardboard, hand-loom weaving, rake and spool knitting, and chair caning. Prerequisite: Art 1.
 Six laboratory hours each week.
22. Advanced Art Crafts three credits
 Practice in two- and four-harness loom weaving and in selection of equipment, patterns, drafts, warp, tabby, and yarns. Prerequisite: Special Education 21 or consent of the instructor.
 Six laboratory hours each week.
23. Elementary Industrial Arts three credits
 Training in the adjustment, care, and manipulation of the hand tools commonly used in fundamental operations; in the collecting of materials helpful in identification and selection of tools, equipment, and supplies needed in special classes; and in typical projects, such as wooden frames for the teaching of mat weaving.
 Six laboratory hours each week.
31. Diagnostic and Remedial Instruction in Reading three credits
 An examination of the techniques of diagnosing reading difficulties and of determining appropriate remedial treatment. Opportunity is given for observing and participating in procedures in the reading clinic. Prerequisite: the Teaching of Reading.
 Three lectures each week.
41. Special Class Methods two credits
 Consideration of methods of handling special-class children, classroom organization, articulation with the regular school program; and purposes of special classes. At least one period of classroom observation a day, followed by conferences, is required.
 Three lectures each week.
42. Student Teaching in Special Classes one credit
 Student teaching in the Laboratory School special class under the supervision of the directing teacher. One half-day a week of actual classroom teaching is required for minimum credit.
47. Education of Subnormal Children three credits
 A demonstration of methods used in caring for and guiding problem children.
 Three lectures each week.

HEALTH EDUCATION

EDWARD H. CUBBON, Chairman

EARL J. BRUCE, EUGENE J. HESTER, LOUISE A. HILDRETH,

THEODORE J. NEMETH, JOHN G. RANKIN (S/SGT. AAF),

FREDERICK J. WALTER (M/SGT. U. S. Army)

HEALTH AND PHYSICAL EDUCATION

- 1, 2. Health and Physical Education for Freshmen one credit
 Swimming, tennis, field hockey, archery, soccer, touch football, basketball, badminton, volley ball, folk dancing, tumbling, boxing, wrestling, and body building exercises, with one period a week devoted to the study of personal hygiene.
 One lecture and two gymnasium hours each week.

- 21, 22. Health and Physical Education for Sophomores one credit
 Participation in various physical activities; also, for one period a week, study of the problems of community hygiene and public health.
 During the second semester one period a week is devoted to first aid as outlined in the Standard First Aid Course of the American Red Cross. Those fulfilling the requirements are given ARC standard certificates in first aid.
 One lecture and two gymnasium hours each week.
- 31, 32. Health and Physical Education for Juniors one credit
 Participation in various activities; in addition, for one period a week, the study of health problems in the elementary school, with particular emphasis upon methods of teaching health. Required only of juniors taking the elementary curriculum.
 During the second semester, one period a week is used in giving instruction and practice in the teaching of games and other physical education activities suitable to the elementary grades.
 Students in other curriculums take Health Education, which consists of three hours of physical education each week.
 One lecture and two gymnasium hours each week.
33. Teaching of Health two credits
 A consideration of the health of the elementary school child, including his growth, development, and training in wholesome health ideals, attitudes, and habits. Methods of presenting the material given in the State Course of Study are stressed.
 Two class hours each week.
35. Teaching of First Aid in the Public Schools two credits
 The Standard and Advanced First Aid Courses of 20 and 10 clock hours, respectively, as approved by the American Red Cross. Persons who satisfactorily complete the work will be recommended for Red Cross First Aid Certificates and will be eligible for the Instructor's Course.
 Two class hours each week.
36. Home Nursing two credits
 "Home hygiene and the care of the sick," as standardized by the American Red Cross.
 Two class hours each week.
- 41, 42. Physical Education no credit
 For seniors, who are expected to participate in physical education activities except when doing student teaching.
 Three hours each week.

HIGHWAY SAFETY AND DRIVER TRAINING

61. General Safety Education three credits
 Basic facts relating to accidents and hazards; basic psychological principles in elimination of accidents; evaluation of curricular materials; the teacher as safety counselor; the course of study in elementary and secondary schools. The first course in the field of Highway Safety Education. Open only to upper classmen and teachers in service.
 Three lecture hours each week.
62. Highway Safety and Driver Training three credits
 A survey of methods used in driver education and in the teaching of traffic safety; practical work in the teaching of beginning drivers, including theory in improved examinations for obtaining licenses, road and performance tests, and inspection methods, and use of all the physical testing devices loaned by the American Automobile Association. Driving instruction is given in a dual-controlled car. The student receives 36 hours of classroom instruction, 8 hours of practice driving and 16 hours of practice teaching in driving. Prerequisite: Two years' driving experience and General Safety Education.
 Two lectures and three practicum hours each week.

63. Principles and Methods of Teaching Safety Education in Secondary Schools three credits
A critical analysis of highway accidents and methods of prevention; principles and practices of teaching highway safety education; and organization and administration of the safety education program. Prerequisite: Highway Safety and Driver Training.
Two lectures and three practicum hours each week.

MILITARY SCIENCE

- 1, 2. Elementary Reserve Officers Training Corps one and one-half credits
Study of the international military situation; theoretical and practical instruction in military fundamentals: organization, leadership, drill and exercises of command, individual weapons, and marksmanship; map and aerial photography; study of National Defense Act and Reserve Officers Training Corps.
Three class hours each week.
- 3, 4. Basic Reserve Officers Training Corps one and one-half credits

INDUSTRIAL ARTS DIVISION

SHRIVER L. COOVER, Director

WALTER A. BOWMAN, MERRILL W. CAMPBELL, RALPH F. CHARNEY
ANGUS H. DOUPLE, AARON J. HOOVER, JOHN W. NEIL, IRVIN J. SHUTSY,
ALEXANDER R. SMOYER, ANTHONY T. STAVASKI, ARTHUR C. WENZEL

INDUSTRIAL ARTS

39. Principles and Practices of Industrial Arts Teaching three credits
A requirement for the prospective industrial arts teacher in order that they may master a few of the fundamental principles, procedures and techniques of industrial arts teaching.
Three lectures each week.
41. Theory and Content of Elementary Industrial Arts three credits
A study of industries, arts, and crafts—their development, their contribution to everyday living, and their organization into units of work for the elementary school.
Three lectures each week.

DRAWING AND DESIGN

1. Introductory Mechanical Drawing two credits
Training in the use of drawing instruments, orthographic projection, sectional representation, tracings, and blueprint making.
Four laboratory hours each week.
2. Sheetmetal Drafting two credits
A course in practical workshop problems which arise in everyday practice.
Four laboratory hours each week.
3. Engineering Drawing two credits
A study of technical sketching, use and care of instruments, orthographic and auxiliary projection drawing with dimensions and sections, reproduction processes, and vertical freehand lettering.
Six laboratory hours each week.
4. Descriptive Geometry two credits
Application of the theory of projection drawing to solving engineering problems by projection and revolution of points, lines, planes, and solids. Prerequisites: D & D 3.
Six laboratory hours each week.

23. Graphic Arts Design two credits
Consideration of the principles of design and color as applied to printing.
Four laboratory hours each week.
24. Machine Drawing and Design two credits
Special emphasis upon American Standard Drawing Room Practice in the development of mechanical engineering drawings, conventional representation, standardization of machine parts and fasteners, preparation of tracings, and the reproduction of industrial working drawings.
Four laboratory hours each week.
35. Electrical Drafting and Theory two credits
Discussion of the bases of modern theories of electricity and their application as well as instruction in direct and alternating currents, their production, transmission, and use, and in related areas. Attention is given to the preparation of teaching material for electric shop at the secondary levels. Prerequisite: A simple knowledge of algebraic equations and plane trigonometry.
Two lecture and two laboratory hours each week.
36. Industrial Arts Design two credits
A study of the history, development, and appreciation of good design in furniture, pottery, and art metal; of the principles of structural composition; and of examples of furniture, pottery, wrought iron fixtures, and the products of related crafts which exemplify these principles.
Four laboratory hours each week.
37. Shop Sketching two credits
A course in the basic principles of school shop planning, including practice in blackboard demonstration, the use of teaching aids and devices, stencil cutting, and various methods of reproducing instructional materials.
Four laboratory hours each week.
48. Architectural Drawing and Design two credits
Study of the principles of architectural design, including floor plans and elevations, and of building construction and materials; the writing of specifications; the planning of shop layouts. Prerequisite: Drawing and Design I, or consent of the instructor.
Four laboratory hours each week.
49. Advanced Mechanical Drawing two credits
Practice in freehand sketching in working drawings, in perspective and pseudo-perspective forms, in lettering, and in blackboard sketching.
Four laboratory hours each week.
50. Art Structure two credits
The study of art structure, with the purpose of developing skill in expression, discrimination, and a broader conception of the field of art in industrial arts.
Four laboratory hours each week.
51. Drawing and Painting three credits
Study and application of the elements and principles of color, form, design and of the various art media and their uses, as a basis for sound aesthetic judgment.
Four laboratory hours each week.

SHOP

1. Fundamentals of Woodworking four credits
Presentation of woodworking, including the use and care of bench tools, the operation of woodworking machinery, and wood finishing.
Two demonstration and six laboratory hours each week.

2. **Fundamentals of Sheetmetal** four credits
An introductory course giving instruction in seaming, riveting, forming, and soldering. Projects suitable for junior and senior high school boys are designed and constructed.
Two demonstration and six laboratory hours each week.
23. **Fundamentals of Graphic Arts** four credits
A study of the fundamental principles of letter press printing: hand composition; proofreading; imposition; press make-ready, operation and care; paper estimation and cutting; elementary binding.
Two demonstration and six laboratory hours each week.
24. **Fundamentals of Machine Shop** four credits
Instruction in the operation of hand and machine tools, including the engine lathe, and in foundry and forge practice, including the heat treatment of steel.
Two demonstration and six laboratory hours each week.
35. **Fundamentals of Electricity** four credits
The construction of simple electrical apparatus of different types, applying the fundamental principles of electricity. Practical instruction is given in telegraph, telephone, annunciator, and house wiring. Attention is given to the selection and evaluation of teaching materials for electric shop.
Two demonstration and six laboratory hours each week.
36. **Advanced Woodworking** four credits
A course in advanced machine work, covering the history, maintenance, and care of woodworking machines, the painting and finishing of woods, and the physical properties and uses of domestic and foreign woods. Prerequisites: Shop I and D and D I.
Two demonstration and six laboratory hours each week.
37. **Fundamentals of Ceramics** four credits
A background course in the major forming, decorating and firing processes in clay. Handbuilding, casting, and throwing are emphasized in the development of individual artware and pottery pieces.
Two demonstration and six laboratory hours each week.
47. **Advanced Machine Shop** four credits
A course providing experience in the operation of the milling machine, the shaper, the drill press, and the engine lathe; in indexing, and in the heat treatment of metals. Prerequisite: Shop 24.
Two demonstration and six laboratory hours each week.
48. **Advanced Electric Shop** four credits
The application of advanced theory to practice in the construction and use of motors; DC motor and generator installation and use; the building and rewinding of simple motors. Projects for junior high schools. Prerequisites: Shop 35.
Two demonstration and six laboratory hours each week.
49. **Advanced Graphic Arts** four credits
A continuation of Shop 23, covering the organization of suitable shop equipment and teaching material, and providing experience in the study, selection and development of binding projects suitable for secondary schools.
Two demonstration and six laboratory hours each week.
50. **Fundamentals of Art Metal** four credits
The application of the principles of design to copper, brass, and pewter. Representative projects include letter openers, book ends, and lanterns.
Two demonstration and six laboratory hours each week.

51. **Patternmaking** four credits
For students who wish to major in woodworking, in preparation for teaching in a unit shop. The possibilities offered by the woodworking area in the secondary school Industrial Arts program are explored. Special attention is given to the care and sharpening of tools and to machinery. Prerequisites: Shop 1 and 36.
Two demonstration and six laboratory hours each week.
52. **Advanced Sheetmetal Shop** four credits
A semester course, including special projects, construction of pieces of equipment for school-shop use, and teaching materials. Prerequisites: Drawing and Design 2 and Shop 2.
Two demonstration and six laboratory hours each week.
53. **Advanced Typography and Book Design** four credits
Practice in the selection, planning, and ordering of supplies and equipment; advanced typography, book design, etching, and silk screen work. Prerequisites: Shop 23 and 49.
Two demonstration and six laboratory hours each week.
54. **Advanced Art Metal** four credits
Specialized work in aluminum, copper, brass, and pewter. Prerequisite: Shop 50.
Two demonstration and six laboratory hours each week.
55. **Special Machine Shop** four credits
Project work in machine shop practice. Admission only by consent of the instructor.
Two demonstration and six laboratory hours each week.
56. **Fundamentals of Welding** four credits
A study of the elements of forge, or blacksmith, welding, oxyacetylene welding, electric resistance welding, and electric arc welding. Safety practices are stressed.
Two demonstration and six laboratory hours each week.
57. **Cold Metal (Wrought Iron)** four credits
Development and construction of ornamental iron projects, including lamps, candle holders, wood baskets, and other projects suitable for high school shops. The work includes both cold and hot forming.
Two demonstration and six laboratory hours each week.
58. **Fundamentals of Weaving** four credits
A study of the development and use of simple looms and weaving devices and of textiles, as related to weaving; practice in two- and four-harness loom weaving and in selection and sources of equipment, patterns, drafts, warp, tabby and yarns.
Two demonstration and six laboratory hours each week.
59. **Comprehensive General Shop** four credits
Basic tool experiences in wood, metal, electricity, ceramics, graphic arts, wood and metal finishing, and weaving. The procedures are exploratory.
Two demonstration and six laboratory hours each week.
60. **Metal Work** four credits
Advanced practice on the lathe, shaper, milling machine, and other machine tools; in elementary metallurgy and heat treatment of steel. Individual work is stressed.
Two demonstration and six laboratory hours each week.
61. **Elementary Industrial Arts Activities** three credits
Projects in leather, art metal, plastics, and basketry, with special adaptation to the needs of elementary pupils.
Six laboratory hours each week.

62. Textiles two credits
 Study of the development and use of simple looms and weaving devices and of the spinning of wool, linen, and cotton fibers, together with a consideration of units of study and possible projects for the elementary school.
 Four laboratory hours each week.
63. Graphic Presentation and Bookbinding four credits
 An elementary unit in graphic arts, including letterpress printing and book-binding; also the preparation and reproduction, through a variety of processes, of teaching material suitable for classroom use.
 Two demonstration and six laboratory hours each week.
64. Radio four credits
 A course in the fundamentals of electronic theory in its application to radio and television, with practice in radio repair and maintenance and in the construction of radio receivers.
 Two demonstration and six laboratory hours each week.
65. Costume Jewelry four credits
 Consideration of the basic principles for making metal and ceramic jewelry, supplemented by the construction of various pieces.
 Two demonstration and six laboratory hours each week.
66. Fundamentals of Leatherwork four credits
 A course planned to give experience in the use of tools requisite to cutting, skiving, tooling, embossing, stamping, lacing, and braiding; Projects are suitable for use in camps and in senior high schools.
 Two demonstration and six laboratory hours each week.
67. Plastics four credits
 A general introduction to the history and development of plastics, with laboratory work in the designing and construction of plastic products.
 Two demonstration and six laboratory hours each week.
68. Crafts four credits
 The application of design as it applies to the arts and crafts. Various craft processes and techniques are organized into units of work suitable for elementary education, hobby clubs, summer camp programs, and rehabilitation.
 Two demonstration and six laboratory hours each week.

LANGUAGE DIVISION

ISAAC C. KELLER, Chairman

CYNTHIA E. BENZING, JAMES H. BOWLEN, HENRIETTA CARROLL,
 CORA B. COOVER (MRS.), VIRGINIA W. CRANDALL (MRS.), JACK F. HOYES,
 CLAIR MARTEL HUGHEY, ELIZABETH JOHNSTON, B. LOUISE RAKESTRAW

ENGLISH COMPOSITION

01. Preparatory English no credits
 A study of grammar, intended for entering students who lack the thorough technical background essential to a mastery of composition.
 Three class hours each week.
1. English Composition three credits
 A workshop course designed to teach the student, through the expository paragraph, to communicate his ideas and experiences with definiteness and distinction. It includes ten hours of instruction in the use of the library.
 Four class hours each week.

2. English Composition three credits
 Practice in multiple-paragraph techniques, studied in the development of the long personal theme and the investigative article, and in the elementary problems of narration and description. Prerequisite: English 1.
 Three class hours each week.
23. Journalism two or three credits
 Practice in the writing and editing of material for the school newspaper, the reading of proof, the writing of headlines, and the preparation of page-layouts. It provides valuable experience for the sponsor, present or prospective, of a school newspaper.
 Two class hours each week.
31. Philology three credits
 Consideration of the past and present trends in language development as background for the effective use of words. Some time is devoted to difficult grammar problems.
 Three class hours each week.
32. Advanced Composition three credits
 A study of literary forms not considered in other courses. Some writing is attempted, depending on interests and talent of the class. Prerequisite: English Composition 1, 2, and Literature 21, 22.
 Three class hours each week.
50. Creative Writing for Teachers three credits
 The writing of fiction and dramatizations for children as materials for the teacher's own use; consideration of the principles and methods of teaching creative composition in the elementary and secondary schools.
 Three class hours each week.

LITERATURE

11. Invitation to Literature three credits
 An honors course, open only to Freshmen, in which the student has the opportunity, through reading, of pursuing his cultural interests, in an effort to heighten his discrimination in literary taste. Admission by consent of the Dean or recommendation of the staff.
 Three meetings each week.
21. English Literature three credits
 A one-semester survey of the leading literary movements, supplemented by extracts from the major writers. Prerequisites: English Composition 1 and 2.
 Three class hours each week.
22. American Literature three credits
 A one-semester survey, including Pennsylvania's contribution. Prerequisites: English Composition 1 and 2.
 Three class hours each week.
33. Modern Drama three credits
 A study, beginning with Ibsen of the art and thought of representative modern writers for the British, Continental, and American stages. Attention is given to the philosophies underlying the national traits observable in dramatic literature.
 Three class hours each week.
34. Modern Novel three credits
 A course in the twentieth-century novel as a source of entertainment, a serious study of present-day living, and a developing art form.
 Three class hours each week.
35. Eighteenth Century Literature three credits
 Consideration of the writings of Johnson, Pope, Dryden, Addison, Swift, Goldsmith, Sheridan, and Defoe.
 Three class hours each week.

36. **Romantic Literature** three credits
Examination of the works of Wordsworth, Coleridge, Byron, Shelley, and Keats, against the background of the life and thought of their time.
Three class hours each week.
37. **American Poetry** three credits
An intensive study of the works of the major American poets.
Three class hours each week.
38. **American Prose** three credits
An intensive study of the works of the major American prose writers.
Three class hours each week.
40. **Children's Literature** three credits
A survey of those poems and stories known as children's literature, with the selection of appropriate material for use in the elementary grades. To assist teachers in evaluating the reading which the child enjoys, criteria for every type of reading are presented.
Three class hours each week.
41. **Contemporary Poetry** three credits
An introduction through lectures, class discussion, and reading to recent poetic movements and writers.
Three class hours each week.
42. **Pre-Shakespearean Literature** two credits
A study of Beowulf and the Canterbury Tales, and of selections from the Morte d'Arthur, the Utopia, the Faerie Queen, and representative Early English drama.
Two class hours each week.
43. **Shakespeare** three credits
An intensive study of a limited number of the poet's greatest dramas, supplemented by the more rapid reading of others.
Three class hours each week.
44. **Short Story** three credits
An introduction to the representative French, Russian, English, and American short story, emphasizing particularly the latter. Attention is given to the critical evaluation of stories and to the compilation of appropriate lists for teaching. One original story is required of each student.
Three class hours each week.
45. **The Essay** three credits
Presentation of the development of the essay as a literary form, offering opportunity for self-expression through some writing.
Two class hours each week.
46. **Victorian Prose and Poetry** three credits
Extensive reading of the representative work of writers of the period; a consideration of present-day problems as they were taking shape in England in the second and third quarters of the nineteenth century.
Three class hours each week.
47. **World Literature** three credits
Chronological presentation, in translation, of selections from the literatures of Europe and the Orient, considering content rather than style, and including basic problems in the history of literary criticism.
Three class hours each week.
48. **Nineteenth Century English Novel** three credits
A study of the development of this literary form, with the reading of representative samples.
Three class hours each week.

FOREIGN LANGUAGES

FRENCH

- 1, 2. **Elementary French** three credits
A thorough review of French syntax, vocabulary building, phonetics, translation, and reading for comprehension without translation.
Three class hours each week.
21. **Seventeenth Century French History and Literary Composition** three credits
Not given 1950-1951.
22. **Outline Course in French Literature** three credits
Not given 1950-1951.
- 31, 32. **Nineteenth Century and Contemporary French Prose and Poetry** three credits
Not given 1950-1951.
- 41, 42. **Romantic and Realistic Movement in French Literature** three credits
Not given 1950-1951.
43. **The French Novel** three credits
Not given 1950-1951.
44. **French Drama** three credits
Not given 1950-1951.

GERMAN

- 1, 2. **Elementary German** three credits
A course for beginners in German, stressing the fundamentals of grammar. Emphasis is placed on oral practice and reading for comprehension without translation.
Three class hours each week.

LATIN

- 1, 2. **Cicero and Tacitus** three credits
Not given 1950-1951.
21. **Virgil and Ovid** three credits
Not given 1950-1951.
22. **Livy** three credits
Not given 1950-1951.
31. **Horace** three credits
Not given 1950-1951.
32. **Roman Civilization** three credits
Not given 1950-1951.

SPANISH

- 1, 2. **Elementary Spanish** three credits
A basic study of grammar and vocabulary, with oral and written exercises; introduction to the reading of Spanish in carefully graded texts.
Three class hours each week.
Not given 1950-1951.
- 21, 22. **Intermediate Spanish** three credits
A review of grammar and reading; the translation of modern prose.
Three class hours each week.
Not given 1950-1951.

23. Spanish Conversation three credits
 O.al practice based on reading and current topics. Prerequisite: Spanish 21,
 and 22.
 Three class hours each week.
 Not given 1950-1951.
24. Advanced Spanish Conversation three credits
 Opportunity, through book reviews, reports on topics of current interest, and
 discussions of historical and geographical features of the Spanish Americas, to speak
 the language. Prerequisite: Minor in Spanish.
 Three class hours each week.
 Not given 1950-1951.
31. Introduction to Spanish Literature three credits
 A general survey of Spanish literature from the Spanish-Latin period to
 modern times, with readings from representative works.
 Three class hours each week.
 Not given 1950-1951.
32. Commercial Spanish four credits
 A study of the use of Spanish in commercial relations between the United
 States and Spanish America, in forms of correspondence, and in commercial voca-
 bulary.
 Four class hours each week.
 Not given 1950-1951.
- 41, 42. Spanish-American Literature three credits
 Consideration of the novel and the short story in Spanish-America.
 Three class hours each week.
 Not given 1950-1951.
- 51, 52. Contemporary Spanish Drama three credits
 Studies in the modern drama, with the reading of representative works.
 Three class hours each week.
 Not given 1950-1951.

SPEECH

1. Fundamentals of Speech three credits
 Training in preparation and presentation of material for varying situations;
 consideration of voice production, based on recordings of each student's voice and
 physical appearance.
 Three class hours each week.
27. Argumentation and Debate two credits
 Practice in the selection of debate teams, the gathering of material, the pre-
 sentation of types of arguments, evidence, and refutation, in audience analysis, the
 technique of judging, and general platform problems. It is designed especially for
 prospective debate coaches.
 Two class hours each week.
37. Voice and Diction two credits
 A course planned to aid teachers in gaining vocal control. Part of the time
 is devoted to correction, pronunciation, articulation, and enunciation.
 Two class hours each week.

DRAMATICS

21. Stagecraft and Scenic Design two credits
 A workshop course in designing and constructing stage settings, modeling
 stages to scale, lighting, and making back-stage equipment and properties.
 Two lecture and two laboratory hours each week.

22. Play Production three credits
 Theory and practice in directing. Each student makes a prompt-book and
 directs a play, either at the college or in his community, a one-act play.
 Two lecture and two laboratory hours each week.
23. Costuming and Make-up two credits
 A study of the history of costuming from ancient to modern times, supported
 by projects in costume design, including the consideration of fabrics, the dyeing of
 materials, and the effects of lights; and methods of applying make-up.
 One lecture and two laboratory hours each week.
31. Interpretative Reading three credits
 For prospective teachers of public speaking, acting, literature and broadcast-
 ing, a cultural course in poetry, drama, and other literary forms.
 Two lecture and two laboratory hours each week.
32. Creative Dramatics two credits
 The adaptation of stories to scripts and the techniques of acting through actual
 participation in contemporary and classical play cuttings, with emphasis on the
 methods of teaching dramatics in elementary and secondary schools.
 Two class hours each week.
41. Community Dramatics and Pageantry two credits
 Methods and procedures in planning projects for community use in keeping
 with the philosophy and principles of adult education programs.
 One lecture and two laboratory hours each week.

SPEECH CORRECTION

25. Speech Pathology three credits
 A foundation course for speech correction, including a study of the anatomy
 and physiology of the speech mechanism and some consideration of the causes,
 symptoms, nature, and management of speech disorders.
 Three class hours each week.
26. Speech Problems three credits
 A survey of the field of speech correction except in stuttering. An introduc-
 tion to the work of the speech teacher in the public schools, it examines the existing
 literature on the recognition and treatment of speech disorders.
 Two lecture and two laboratory hours each week.
35. Phonetics three credits
 The application to articulatory speech disorders of a sound-by-sound analysis
 of speech. Palatography, through lectures and research, is used to give a composite
 picture of each sound.
 Three class hours each week.
36. Psychology of Speech three credits
 Recognition of the particular contribution of this science to the development
 of sounds and to speech correction, especially that of stuttering in all its phases.
 Three class hours each week.
45. Elementary Speech Clinic two or three credits
 Practice in clinical procedure; a review of speech disorders and methods of
 diagnosis and remedial treatment; opportunity for the accumulation of corrective
 materials and observation of the work of the speech clinician.
 Four to six laboratory hours each week.

46. Advanced Speech Clinic two or three credits

Correctionist practice. Each student is responsible for his own cases, including diagnosis, analysis, therapy, reports, follow-up, and other problems, with supervision as needed.

Four to six laboratory hours each week.

SCIENCE DIVISION

GEORGE ELBERON HARDING, Chairman

FREDERICK K. ATKINS, HARRY E. BARRETT, WALTER A. BOWMAN,

EARL J. BRUCE, RALPH F. CHARNEY, J. CALVIN FLEMING,

NANCY W. GRIMES (MRS.), CLYDE M. HARTMAN, ROBERT M. KECK,

JOHN F. LEWIS, HARRY L. MONROE, THEODORE J. NEMETH,

HUBERT SNYDER, PAUL N. WALKER

GEOGRAPHY

1. Principles of Geography three credits

A study of the units of earth relations, weather, climate, maps, land forms, inland bodies of water, oceans, soils, and vegetation as bases for interpretation of earth regions, with emphasis on devices and methods of presentation of this material in classroom teaching. Prerequisite to all other courses in geography.

Three class hours each week.

21. Economy Geography three credits

An evaluation of the effect of economic conditions upon international relations, particularly as they are influenced by the resources of typical regions and various countries, current problems in world trade, and means of communication.

Three class hours each week.

22. Physiography three credits

A systematic study of land forms, their changes, and their influences on man. This course or Physical Science 22 is basic to all courses in regional geography. Prerequisite: Geography 1.

Three class hours each week.

23, 24. Geology three credits

Field work in the recognition of the various land and water forms and the elements, their origins, their effects upon the present economy, and their probable futures.

Three class hours each week.

31. Geography of the United States and Canada three credits

A regional study stressing current physical and economic conditions.

Three class hours each week.

32. Geography of Latin America three credits

A comparative regional study of South America, Mexico, and the Caribbean countries. The relations of Latin America with other nations, especially the United States, are stressed.

Three class hours each week.

33. Geography of Europe three credits

A survey using the physical-political approach in interpreting the economic factors now at work in the various countries of Europe.

Three class hours each week.

35. Commercial and Industrial Geography three credits

An interpretative survey of the effects in the United States, of geographic conditions upon industrial production and commerce, of developments of commercial areas, and of availability of resources to markets, in relation to other regions of the world.

Three class hours each week.

36. Conservation of Natural Resources three credits

A study suitable to the needs of teachers of geography, economics, and history. It considers major governmental projects, minerals, soil, and water and plant resources.

Three class hours each week.

37. Geography of Asia three credits

An economic and political regional analysis stressing the inter-dependence of Asia and other parts of the world.

Three class hours each week.

38. Geography of Australasia-Africa three credits

A study, by regions, of topographies, climates, and natural resources, in which consideration is given to adjustments of peoples to natural environments and post-war economics.

Three class hours each week.

41. Trade and Transportation three credits

Cognizance of the relationships, in these fields, which exist among the major countries, as effected by the principles underlying and factors involved in international commerce, the chief commodities and channels of trade, and available means of transportation.

Three class hours each week.

42. Climatology three credits

A course, indispensable to teachers of geography, concerned with the climatic regions of the earth and the advantages and limitations they offer for man's occupancy.

Three class hours each week.

43. Geographic Influences in American History three credits

An analysis of the influence of geographic factors in the discovery of North America, in the settlement of the continent, and in the development of the United States as a nation. Prerequisite: History 21 or consent of the instructor.

Three class hours each week.

45. Geography of Pennsylvania three credits

A regional survey through lectures and field trips, of the topography, including land forms, drainage, climate, occupations, resources, and trends in conservation. Attention is given to the Commonwealth's regional planning program.

Three class hours each week.

46. Meteorology three credits

A scientific examination of the laws and principles of atmospheric change and of the problems arising from the use of atmosphere as a medium for transportation; practice in the use of common weather instruments, the reading and interpretation of weather maps, and the observation and recording of weather data.

Three class hours each week.

50. Field Courses varying credit

Planned trips, especially in summer sessions, during which daily guide sheets are issued, and lectures and discussions are conducted.

MATHEMATICS

- 00. Special Work in Mathematics** **three credits**
Individual work in applied mathematics, college algebra, trigonometry, analytic geometry, or differential or integral calculus. Admission by consent of the instructor.
Three class hours each week.
- 1. Applied Mathematics** **three credits**
A study of the need and place of mathematics in science and industry, supplemented by practical applications of elementary mathematical procedures. This course, though required of industrial arts students, is not counted in the 18 hour minimum for specialization in mathematics.
Three class hours each week.
- 11. College Algebra** **three credits**
Extension of the skills of secondary school algebra; recognition of their use as instruments in other phases of mathematics and of their value in coordination.
Three class hours each week.
- 12. College Trigonometry** **three credits**
Application of the knowledge of ratios through similarities, making functions meaningful; of the uses of algebra in the field of trigonometry; of formula development; of triangular solutions in all their phases; and of the perfection of abilities in exponentials and logarithms. Prerequisite: Mathematics 11.
Three class hours each week.
- 13. Algebra and Trigonometry** **five credits**
For engineering students with a minimum of two years of high school mathematics, including $1\frac{1}{2}$ units of algebra, 1 unit of plane geometry and $\frac{1}{2}$ unit in other mathematics.
Five class hours each week.
- 14. Analytical Geometry and Differential Calculus** **four credits**
For engineering students. A study of loci of equations and equations of loci; straight lines; conics; formal differentiation and application of derivatives to curve drawing; maxima and minima; and rates. Prerequisite: Mathematics 13 or Mathematics 11 and 12.
Four class hours each week.
- 21. Analytical Geometry** **three credits**
Development of meaning in the point, the line and the plane; of co-ordination in applying mathematical formulas; and of visual understanding of the various conics. Prerequisite: Mathematics 12.
Three class hours each week.
- 22. Synthetic Geometry** **three credits**
A course coordinating and extending the skills in geometry and developing the ability to make constructions of a higher order than those in other fields of mathematics. The aims and techniques of teaching geometry are emphasized.
Three class hours each week.
- 31. Differential Calculus** **three credits**
A study of the various phases of differentiation as applied to functions of a variable, with application to curves, maxima and minima, rates, and other problems. Prerequisite: Mathematics 21.
Three class hours each week.

- 32. Integral Calculus** **three credits**
Examination of the methods of integration, as well as study of definite integrals and their application to curves, areas, volumes, problems in mechanics, and similar situations. Prerequisite: Mathematics 31.
Three class hours each week.
- 33. Differential Equations** **three credits**
The treatment of the elementary differential equations, with special emphasis on such types as the student is likely to encounter in mechanics and physics. Prerequisite: Mathematics 32.
Three class hours each week.
- 41. Advanced College Algebra** **three credits**
Emphasis of the theoretical aspects. Prerequisite: Mathematics 32.
Three class hours each week.
- 42. Statistics** **three credits**
Development of the ability to read statistical tables, to interpret and make tables from statistical data, to compute and interpret central tendencies and deviation, and to apply in the physical and social sciences, psychology and education the elementary statistical skills.
Three class hours each week.
- 43. Spherical Trigonometry and Navigation** **three credits**
A study of the trigonometry of lines and figures on the surfaces of spheres, applied to navigation. Prerequisite: Mathematics 12.
Three class hours each week.
- 44. History of Mathematics** **three credits**
A survey of the chronological development of mathematical thought, and its scientific, economic, social, and cultural significance.
Three class hours each week.

SCIENCE

BIOLOGICAL SCIENCES

BIOLOGY

- 1, 2. Biological Science Survey** **three credits**
A study of fundamental principles as they apply to plants and animals. Students working toward certification in science should not take this course.
Four class hours each week.
- 24. Nature Study** **three credits**
A course familiarizing the student, through seasonal discussions of flowers, trees, birds, and insects and through field trips, with ordinary and phenomenal nature objects.
Three class hours and two laboratory hours each week.
- 25. Histology** **three credits**
A consideration of plant and animal tissues. It is based largely upon laboratory demonstration and preparation of microscopic slides. Prerequisite: Botany I and Zoology I.
Three class hours and two laboratory hours each week.
- 32. Heredity** **three credits**
An examination, in lecture and laboratory, of the principles of genetics, with emphasis on methods and mechanism of inheritance as they apply both to plants and animals, including man. Open to all students.
Three class hours and two laboratory hours each week.

34. Bioecology **three credits**

A study of the environmental relationships of plants and animals, with special reference to field techniques and ecological principles. Prerequisites: Botany 24 or Zoology 24.

Three class hours and two laboratory hours each week.

35. Problems in Conservation of Natural Resources **three credits**

A study, by lecture, laboratory, and field work, suggesting, as a basis for teaching conservation in the public schools, solutions to present lacks in conservation management of minerals, water, farm lands, forest areas, wildlife, and human resources.

Two class hours and two laboratory hours each week.

BOTANY

1. General Botany (Vascular) **four credits**

Examination of the principles and problems of vascular plants, with emphasis on their structure, function, distribution, and behavior.

Three class hours and three laboratory hours each week.

2. General Botany (Non-vascular) **four credits**

Examination of the principles and problems of non-vascular plants with emphasis on their structure, function, distribution, and behavior.

Three class hours and three laboratory hours each week.

24. Field Botany (Local Flora) **three credits**

A study of the classification and identification of the seed plants and ferns of Southwestern Pennsylvania. Prerequisite: Botany 1 or consent of the instructor.

Three class hours and two laboratory hours each week.

25. Plant Propagation **three credits**

Theoretical discussions and practical work. Prerequisite: Botany 1.

Three class hours and two laboratory hours each week.

32. Bacteriology **three credits**

A general course in the fundamental principles. Prerequisites: Botany 2 and Chemistry 1.

Three class hours and two laboratory hours each week.

35. Plant Histology **three credits**

A microscopic study of plant tissues and organs; examination of the stelar theory and of histological techniques. Prerequisite: Botany 1.

Three class hours and two laboratory hours each week.

41. Forestry **three credits**

A study of the identification, classification, anatomy, physiology, ecology, and economic importance of wood plants. Prerequisite: Botany 1 or consent of the instructor.

Three class hours and two laboratory hours each week.

ZOOLOGY

1. General Zoology (Invertebrate) **four credits**

A study of the invertebrates, based on the structure, function, distribution, and behavior of representative species of all the major phyla.

Three class hours and three laboratory hours each week.

2. General Zoology (Vertebrate) **four credits**

A study of the vertebrates based on the structure, function, distribution, and behavior of representative species of the various classes.

Three class hours and three laboratory hours each week.

21. Comparative Anatomy **three credits**

Consideration of the fundamentals, with emphasis on mammalian anatomy. Prerequisite: Zoology 2.

Three class hours and two laboratory hours each week.

22. Entomology **three credits**

A general study, including field trips and projects, of the structure, physiology, classification, relationships, and economic importance of insects.

Three class hours and two laboratory hours each week.

24. Field Zoology **three credits**

A study, adapted to the needs of teachers and including practice in methods of collecting and preserving specimens of the forms of animal life in this region.

Three class hours and two laboratory hours each week.

25. Parasitology **three credits**

A study of animal parasites, dealing chiefly with protozoology, helminthology, and arthropods of importance in disease. Prerequisite: Zoology 1.

Three class hours and two laboratory hours each week.

30. Embryology **three credits**

A course in the comparative embryology of the vertebrates, with special reference to the chick and pig. Prerequisite: Zoology 2.

Three class hours and two laboratory hours each week.

31. Physiology **three credits**

An analysis of the structure and functions of the tissues and organs of the human body. Open to all students.

Three class hours and two laboratory hours each week.

35. Animal Histology **three credits**

A study by microscope of animal tissues, with practice in the collection and preparation of specimens. Prerequisites: Zoology 1, 2.

Three class hours and two laboratory hours each week.

44. Ornithology **three credits**

A study, supplemented by field work, of the natural history and classification of birds, with particular emphasis upon local species.

Three class hours and two laboratory hours each week.

PHYSICAL SCIENCES

1, 2. Physical Science Survey **three credits**

A general course in appreciation, drawn largely from the fields of astronomy, physics, chemistry, and the earth sciences and designed to increase, through the interpretation of familiar physical phenomena, the student's awareness of natural forces and of the effects of scientific discovery upon contemporary life and thought. Students specializing in science should not take these courses.

Four class hours each week.

21. Astronomy **three credits**

Recognition of the various elements of the solar system, their physical characteristics and motions, the phenomena of the galactic system and of extra-galactic space, and the constellations, with a consideration of the mathematical phases generally omitted from studies of this kind.

Three class hours each week.

23. Applied Science three credits
The application of data selected from the fields of mechanics, heat, light, and substances to problems confronting the industrial arts teacher. Prerequisite: a simple knowledge of algebra and trigonometry.
Four class hours each week.
24. Geology three credits
Field work in the recognition of the various land and water forms and the elements, their origins, their effects upon the present economy, and their probable futures.
Three class hours and two laboratory hours each week.
31. Photography three credits
Examination of the essentials of photographic composition; experience in the use of modern camera equipment and in the complete procedure of making pictures.
Three class hours and two laboratory hours each week.

CHEMISTRY

- 1, 2. Inorganic Chemistry four credits
An introduction to fundamental theories and laws, covering in the first semester the study of the non-metals and in the second, that of the metals and their compounds, including the carbon compounds.
Three class hours and three laboratory hours each week.
3. Inorganic Chemistry five credits
A study of the fundamental principles in relationship to the descriptive chemistry of non-metallic elements and their compounds, prerequisite to more advanced study.
Three lecture, one recitation, and three laboratory hours each week.
4. Inorganic Chemistry and Qualitative Analysis four credits
A continuation of Chemistry 3, with the latter part of the semester devoted to qualitative analysis.
Three lecture, one recitation, and three laboratory hours each week.
21. Qualitative Analysis three credits
An advanced treatment of chemical theory relating to ionic solutions and descriptive inorganic chemistry; the application, to qualitative analysis, of the theories of general chemistry and ionization, of the law of mass action, and of the principles of chemical equilibrium. Prerequisites: Chemistry 1, 2.
Two lecture and three laboratory hours each week.
22. Quantitative Analysis three credits
Recognition of the principles underlying gravimetric and volumetric analysis, including the function of indicators, with laboratory practice in preparing and standardizing solutions and in analyzing, by both methods, various substances. Prerequisites: Chemistry 1, 2, and 21.
Two lecture and three laboratory periods each week.
- 31, 32. Organic Chemistry four credits
An introductory course, including in the first semester a study of the aliphatic series and in the second, a study of the aromatic series.
Three class hours and three laboratory hours each week.
41. Physical Chemistry three credits
A consideration of gases, liquids, solids, chemical equilibrium, reaction velocities, solutions, catalysts, ionization, elements of thermo-chemistry, and the application of the phase rule. Prerequisites: Chemistry 1, 2 and 21; Physics 1 and 2.
Two lecture and two laboratory hours each week.

42. Industrial Chemistry three credits
A study of procedures in the chemistry of industrial manufacturing, supplemented by visits, required of the student, to leading chemical plants in the area.
Two lecture and two laboratory hours each week.
51. Biochemistry three credits
An introduction to the chemical constituents and reactions of living matter.
Three lecture and two laboratory hours each week.
52. Chemistry of Food and Nutrition three credits
An elementary study of carbohydrates, fats, and vitamins as they affect human life, including an intensive examination of colloids in their special relation to nutrition.
Three lecture and two laboratory hours each week.

PHYSICS

- 1, 2. General Physics four credits
An introductory course in the fundamentals of mechanics and heat, including in the second semester a study of the principles of magnetism, electricity, sound and light. Prerequisite: a knowledge of simple algebraic equations and of the elements of plane trigonometry.
Three lectures and three laboratory hours each week.
3. General College Physics five credits
A one-semester course devoted to molecular physics, heat, sound, and mechanics, with special emphasis on the last. Prerequisite: Mathematics 13 or Mathematics 11 and 12.
Three lecture-recitation, two demonstration, and three laboratory hours each week.
21. Magnetism and Electricity three credits
An applied study of magnetism, direct and alternating currents, and the elementary theory of electron tubes.
Two lecture and two laboratory hours each week.
22. Modern Physics three credits
Recognition of recent developments, among them X-ray and crystal structures, models of the atom, radioactivity, artificial transmutation, electron tubes, and the cosmic ray.
Two lecture and two laboratory hours each week.
31. Sound three credits
A survey of the nature and general phenomena of sound waves, including the scientific basis of music and the operation of musical instruments.
Two lecture and two laboratory hours each week.
41. Mechanics three credits
The continuation of the study of this science as presented in Physics 1.
Two lecture and two laboratory hours each week.
42. Optics three credits
A presentation through geometrical and physical optics, of the nature of light and its adaptation to use in optical instruments.
Two lecture and two laboratory hours each week.
45. Heat three credits
A study of the measurement of heat, expansion, heat engines, the relation of heat to work, and allied topics.
Two lecture and two laboratory hours each week.

51. **Radio Communication** three credits
 Consideration of the general principles used in the construction of radio transmitters and receivers; practice in the transmission and reception of the code.
 Three lecture and two laboratory hours each week.
61. **Physical Measurements** three credits
 The verification, through actual experiment, of some of the laws and constants of physics. Prerequisites: Physics 1 and 2.
 Three lecture and two laboratory hours each week.

SOCIAL STUDIES

GEORGE S. HART, Chairman
 FRANK W. LENOX, GEORGE H. ROADMAN, EMMA SACCO,
 MALVERN R. WOLFE

25. **The Americas: Their Historical, Geographical, and Cultural Inter-Relationships** three credits
 A survey of the historical, geographical and cultural relationships between the Latin American countries and the United States. The inter-dependence of the Americas is emphasized; the contributions that each has made in art and literature are woven into their historical backgrounds and geographical environments to give a better understanding of the common ideals and problems of the countries of the Western Hemisphere.
 Three lectures each week.

HISTORY

1. **History of Civilization** four credits
 A study of the origin and development of the political, social, economic, and religious institutions which constitute modern civilization, with emphasis upon broad, sweeping movements rather than individual states or nations. Care is taken to point out the constant conflicts between ideas and systems of thought and practice through which these basic institutions came into being and their functions in modern civilization.
 Four lecture hours each week.
21. **History of the United States, 1492-1865** three credits
 A general survey of the political, economic, social, and cultural development of the United States from the Age of Exploration through the Civil War.
 Three lecture hours each week.
22. **History of the United States since 1865** three credits
 A general survey of the political, economic, social, and cultural development of the United States since the Civil War, with special emphasis upon those factors which have contributed most to the establishment of modern institutions.
 Three lecture hours each week.
23. **History of the United States and Pennsylvania** three credits
 A course based upon the political, economic, and social growth of the Commonwealth and related to general United States history by a series of collateral readings planned to correlate the two subject areas.
 Three lecture hours each week.
31. **History of Modern Europe to 1815** three credits
 A study of the Renaissance and the Reformation; the decline of feudalism and the rise of national states; the expansion of Europe into new worlds; the development of science, and its influence on thought and culture; the French Revolution and the Napoleonic Era.
 Three lecture hours each week.

32. **History of Recent Europe, 1815 to the Present** three credits
 A survey of the growth of thought and culture; the rise and spread of democracy; the unification of Germany and Italy; the growth of nationalism in Eastern Europe; the industrial Revolution and the resulting social, political, and economic reforms; the growth of imperialism; the background of the First World War, the conflict, and post-war problems and readjustments; Second World War to the present.
 Three lecture hours each week.
33. **History of Pennsylvania** three credits
 A survey of the political, economic, and social growth of the Commonwealth as a colony and as a state. Prerequisite: History 21.
 Three lecture hours each week.
34. **Social and Industrial History of the United States** three credits
 A survey of the social and economic patterns that tended to prevail at different periods in American history, with major emphasis on the rise and decline of the plantation system and the emergence of an industrial society.
 Three lecture hours each week.
35. **Renaissance and Reformation** three credits
 A study of the transition from the Medieval to the Modern period; the intellectual awakening as it appeared in the different countries of Europe, affecting all lines of interest; an analysis of the religious thought and organization as it forms a background for our present-day thought. Prerequisite: History 31.
 Three lecture hours each week.
36. **Contemporary European History** three credits
 Consideration of the development and reorganization of political, social, and economic problems since the First World War and of the international aspects of vital questions. Prerequisites: History 31 and 32.
 Three lecture hours each week.
37. **Contemporary American History** three credits
 A detailed study of the policies and problems of the United States in the twentieth century, with emphasis upon the Second World War and the post-war period. Prerequisites: History 21 and 22.
 Three lectures each week.
41. **History of England** three credits
 A survey of the nation's development, with particular reference to the governmental, social, and cultural contributions to the background and growth of America.
 Three lecture hours each week.
42. **History of Latin America** three credits
 A survey of the political, economic, and social problems of the past few centuries, stressing Latin American relationships with the United States and Europe.
 Three lecture hours each week.
43. **History of the Far East** three credits
 A survey of movements, such as Imperialism, the Open Door, and cultural interchange, as they contribute to world history.
 Three lecture hours each week.

SOCIAL SCIENCES

21. **Principles of Economics** three credits
 A study of such fundamentals as production, distribution, consumption, and exchange, as they are revealed in the present-day problems of public finance, business organization, monetary situations, insurance, banking, and labor difficulties.
 Three class hours each week.

30. Contemporary Economic Problems **three credits**

Intensive treatment of selected vital problems, among them trust regulation, credit control, labor organization, public utilities, business cycles, cooperatives, and profit sharing. Prerequisite: Social Science 21.

Three class hours each week.

31. American Government **three credits**

Consideration of the basic principles of American government, Federal, state, and local; of the Constitution and the machinery through which it is implemented; of major current governmental issues. Prerequisite: History 21 or consent of the instructor.

Three lecture and two laboratory hours each week.

32. Municipal Government **three credits**

A course in which particular attention is given to the governmental organization in cities of the various classifications, as well as to the prevailing forms of administration used by boroughs and townships in Pennsylvania. Prerequisite: Social Science 31.

Three class hours each week.

33. Comparative Government **three credits**

A survey of the historical development and present structure and functions of the government of Great Britain and her dominions, contrasted with the dictatorial governments of Germany, Italy, and Russia. Prerequisites: Social Science 31 and 32 or consent of the instructor.

Three class hours each week.

37. Principles of Sociology **three credits**

Examination of the principles and problems of human progress with emphasis upon individual and group methods of improving social conditions.

Three class hours each week.

38. Origin of Social Institutions **three credits**

Study of the sociological background of the origin and development of such institutions as the church and the family, particularly the latter.

Three class hours each week.

39. Rural Sociology **three credits**

A course aimed at creating an understanding of the nature of the rural community, with its specific problems and significant changes. The place and function of the school are emphasized.

Three class hours each week.

40. Civic Education **three credits**

Experience in the development of a program for citizenship training and character education in the elementary schools.

Three class hours each week.

43. Industrial Relations **three credits**

A study of the methods by which workers, employers, and the public have been and are now attempting to solve labor-management problems. Present programs are evaluated in the light of underlying economic principles. Labor and management representatives from the area are invited in when possible.

Three class hours each week.

DISTRIBUTION OF STUDENTS BY PENNSYLVANIA COUNTIES

(as of February 15, 1950)

Allegheny -----	157	Huntingdon -----	3
Beaver -----	17	Indiana -----	4
Bedford -----	2	Jefferson -----	2
Berks -----	1	Lackawanna -----	3
Blair -----	3	Lawrence -----	7
Bucks -----	2	Luzerne -----	3
Butler -----	8	Lycoming -----	3
Cambria -----	20	McKean -----	2
Center -----	3	Mercer -----	4
Chester -----	2	Northampton -----	1
Clarion -----	3	Northumberland -----	1
Clearfield -----	3	Philadelphia -----	3
Crawford -----	1	Schuylkill -----	1
Cumberland -----	2	Somerset -----	15
Dauphin -----	3	Sullivan -----	1
Elk -----	2	Venango -----	8
Erie -----	9	Warren -----	3
Fayette -----	173	Washington -----	269
Franklin -----	2	Westmoreland -----	120
Greene -----	14	York -----	2

Other States: Delaware—1; Illinois—1; New York—3; Maryland—2; Massachusetts—1; Ohio—2; Washington, D. C.—1; West Virginia—3; Virginia—1.

ROSTER OF CALIFORNIA STUDENTS

(as of October 15, 1949)

STUDENTS IN ELEMENTARY CURRICULUM

	FRESHMEN	
Name	High School Alma Mater	Resident County
Adams, Clarence H., Jr. -----	Redstone Township -----	Fayette
Anfield, Bernice E. -----	California Community -----	Washington
Arnett, Shirley Ann -----	Clairton -----	Allegheny
Ballein, B. June -----	East Washington -----	Washington
Barker, Mary Ellen -----	Charleroi -----	Fayette
Barkby, Cernice Claire -----	Monongahela -----	Washington
Blount, Nancy Berdette -----	Beaver Falls -----	Beaver
Brockman, Patricia A. -----	California -----	Washington
Bryce, Barbara Jeanne -----	Clairton -----	Allegheny
Bugelavicius, Alex -----	California -----	Washington
Buttermore, Patricia Ann -----	Perry Township -----	Fayette
Carns, Lewis W. -----	Somerset -----	Westmoreland
Caputo, John -----	Belle Vernon -----	Fayette
Cunningham, Marlene -----	Brownsville -----	Fayette
DeRosa, Norma Jean -----	Donora -----	Washington
Dominico, Mary Louise -----	Monessen -----	Westmoreland
Drews, Dorothy T. -----	Redstone -----	Fayette
Duranko, John -----	North Union Township -----	Fayette
Fabel, Mary -----	Centerville -----	Washington
Fast, Noami Jean -----	Point Marion -----	Fayette
Fidelman, Clara Elizabeth -----	Washington -----	Washington
Gladden, Ruth Ellen -----	CConnellsville -----	Allegheny
Grilli, John V. -----	Rostraver -----	Westmoreland
Harring, Lorna M. -----	Uniontown -----	Fayette
Hicks, Loree M. -----	Brownsville -----	Fayette
Hixon, Elmer E. -----	East Huntingdon -----	Westmoreland
Izett, Donna Marie -----	Bentleyville -----	Washington
Jeffers, Warren T. -----	Dunbar Township -----	Fayette
Krempasky, Eleanor E. -----	Marion -----	Fayette
Lanczak, John James -----	Union -----	Washington
McClain, Harold Lee -----	Redstone -----	Fayette
McCune, Donna Louise -----	Brownsville -----	Fayette

Name	High School Alma Mater	Resident County
McDougal, Della M. S.	South Huntingdon	Westmoreland
Means, Jacquelin Joan	Uniontown	Fayette
Malissas, Marie E.	Monessen	Westmoreland
Mikovich, Ivan	Sewickley Township	Westmoreland
Misenko, Marie Alice	Brownville	Fayette
Nabors, Gloria Joanne	Connellsville	Fayette
Nussar, Tressa Ann	Rostraver	Westmoreland
Patton, Norma Jean	Uniontown	Fayette
Peters, Patricia Ann	California Community	Washington
Reynolds, Luan A.	Colestock	Crawford
Rhodes, Rhoda Renee	Uniontown	Fayette
Ross, John James	Pittsburgh Academy	Washington
Ryan, Doris Lorraine	Georges Township	Fayette
Sanders, Marian Ellen	West View	Allegheny
Sawich, Jean Julia	Monessen	Westmoreland
Schater, June Lorraine	East Washington	Washington
Sechler, Patricia Lee	Masonstown	Fayette
Sloan, Marie	Charleroi	Washington
Stewart, E. Joan	Washington	Washington
Strogus, Mary	Brownsville	Fayette
Tavernit, Rosalie B.	Redstone	Fayette
Townsend, Margaret Ellen	Redstone	Fayette
Ulery, Shirley Ann	Brownsville	Fayette
Victor, Wanda June	Georges Township	Fayette
Warren, James Russell	Monongahela	Washington
Webster, Mildred A.	California Community	Washington
Wohar, Joseph	California Community	Washington
Young, Norman C.	Charleroi	Washington
Zanot, Ida Elaine	East Bethlehem	Washington

SOPHOMORES

Anderson, Betty L.	Clairton	Allegheny
Bailey, Pauline J.	Brownsville	Washington
Blasko, Barbara J.	Charleroi	Washington
Brasuell, Margaret T.	Ridgway	Elk
Brumbaugh, Lois M.	Charleroi	Washington
Craven, Shirley Mae	Brownsville	Fayette
Golembiewski, Veronica	Redstone	Fayette
Herron, Francis Joseph	Trinity	Washington
Hickle, Delores	Centerville	Washington
Hickle, JoAnne E.	Redstone	Fayette
Hutchinson, James K.	Knoxville Vocational	Washington
Jennings, Carmen C.	Immaculate Conception	Fayette
Kurtz, Monna Jeanne	Bentleyville	Washington
Lowman, Marion Joan	California	Washington
McElravy, Mary Alice	Washington	Washington
Mihaly, A. Marian	Connellsville	Fayette
Patton, Marion Ruth	Elizabeth	Allegheny
Petitto, Gilda	Vernon	Westmoreland
Sharpnack, Doris I.	Redstone	Fayette
Tinley, Nelda L.	East Pike Run Twp.	Washington
Todorich, Rose Marie	Monongahela	Washington
Wadlow, Maureen C.	Avalon	Allegheny
Waldbaum, Clarabelle	McKeesport	Allegheny
Zehala, Eleanor	St. John	Fayette

JUNIORS

Alhbin, Betty Marie	Greensburg	Westmoreland
Blanc, J. Vance	German Township	Fayette
Codeluppi, Betty Jean	McKeesport Tech	Allegheny
Crompton, Albert	Monongahela	Allegheny
Elder, Edwin W.	Williamsport	Lycoming
Flynn, Dolores	Uniontown	Fayette
Gordon, Louise V.	Verona	Allegheny
Gnagey, Mary Ann	Meyersdale	Somerset
Griffin, Virginia H.	Berlin-Brothersvalley	Washington
Itzel, Dolores M.	Cathedral	Allegheny
Jameson, Robert L.	Brownsville	Fayette
Johnson, Louise C.	Monongahela	Washington
Jones, Jacquelyn	Ellsworth	Washington

Name	High School Alma Mater	Resident County
Kane, Ruth B.	Ridgway	Washington
Kelly, Pearl	Redstone	Fayette
Logan, Dorothy	Charleroi	Washington
Matsco, Dorothy D.	Donora	Fayette
Mazurek, Kathryn G.	Redstone	Washington
Moore, M. Maxine	Union	Fayette
Nanns, Larry E.	Redstone	Westmoreland
Nichols, Doris I.	New Kensington	Westmoreland
Parkinson, Lois Jane	Monessen	Westmoreland
Peairs, Elaine D.	West Newton	Fayette
Phillips, Lou Etta	Brownsville	Washington
Restanio, Angeline G.	Union	Westmoreland
Rice, Virginia I.	North Huntingdon	Allegheny
Schar, Nancy Ann	Shaler	Fayette
Shea, Lois June	German Township	Fayette
Schultz, Kathryn F.	North Union	Westmoreland
Starinsky, Julia	Vernon	Westmoreland
Stash, Mary Ann	Monessen	Washington
Strauser, Hilda Ann	Uniontown	Fayette
Teets, Edgar Ray	Brownsville	Fayette
Tharpe, Wanda Lucille	Brownsville	Fayette
Tharpe, Winona	Brownsville	Westmoreland
Welty, Mary	Sewickley Township	Westmoreland

SENIORS

Andolora, Frances C.	Redstone	Fayette
Bickerton, Carol L.	Clairton	Allegheny
Bloom, Fred J.	Dunbar Township	Fayette
Clifford, Marjorie A.	St. John's	Allegheny
Filson, Frances R.	Monessen	Fayette
Glisan, Genevieve	South Union	Allegheny
Herman, Frank	Tech	Washington
House, Irma L.	Centerville	Washington
Johnston, Betty Mae	Monongahela	Washington
Kulikowski, Joseph J.	East Pike Run Twp.	Westmoreland
McCune, James P.	Sewickley Township	Erie
Mook, Reed	Seabreeze, Daytona Beach, Florida	Cambria
Oldham, Alvin	Windber	Allegheny
Overand, Berna Deane	McKeesport	Washington
Pyle, Ann C.	Donora	Fayette
Ross, Julia L.	North Union	Washington
Savage, Shirley I.	California	Washington
Sims, Patricia R.	Canonsburg	Fayette
Warman, Lois E.	Masonstown	Fayette
White, Loise Reichard	Hannah More Academy, Reistertown, Md.	Washington
Wilson, Robert M.	California	Washington

GRADUATES

Clawson, Lucy Jane	Mt. Pleasant Township	Westmoreland
Crisafulli, Frank	Easton	Washington
Edwards, Irene S.	Duquesne	Washington
Glott, Patsy Richard	East Pike Run Twp.	Washington
Raynal, Marie P.	Donora	Lawrence
Thayer, Margaret Jane	Hampton Township	Washington

STUDENTS IN THE SECONDARY CURRICULUM

FRESHMEN

Name	High School Alma Mater	Resident County
Abercrombie, Ruth Delors	California	Washington
Adamson, Mary Estelle	East Bethlehem	Washington
Anderson, William Gene	Donora	Washington
Baker, Florence Mae	Somerset	Somerset
Bamford, Shirley Ann	Midway	Washington
Bandini, Arthur Joseph	Vernon	Fayette
Barcelona, Joseph A.	Charleroi	Washington

Name	High School Alma Mater	Resident County
Black, John Alexander	Washington	Washington
Bokulich, Jack E.	Redstone	Fayette
Bongiorno, Thomas	Marion	Fayette
Bower, Elisabeth Anne	East Bethlehem	Washington
Bozik, Edward E.	Donora	Washington
Brown, James Howard	Trinity	Washington
Burton, W. Thomas	East Pike Run Twp.	Washington
Cairns, John Charles	East Pike Run Twp.	Washington
Carson, James William	California Community	Washington
Chomiak, Catherine M.	Redstone	Fayette
Christian, Bruce	Mt. Penn	Berks
Christopher, Ronald Nick	Blairsville	Indiana
Churchwell, George T.	Metropolis	Washington
Clemente, Ersilia Jean	McKeesport Tech	Allegheny
Clewewien, Robert E.	Centerville	Fayette
Cooper, Donna Jean	California Community	Washington
Copenhaver, Ronald A.	Centerville	Washington
Cowen, Gerald D.	California Community	Washington
Crawford, Donna Lee	Vernon	Westmoreland
Dalla Santa, Pasquale	East Bethlehem Township	Brownsville
Danna, James W.	Brownsville	Fayette
Davis, Mary Elizabeth	Charleroi	Washington
Davis, Richard L.	Centerville	Washington
DeBerardinis, Martin A.	Donora	Washington
Diaz, Albert S.	Charleroi	Washington
Dolan, Patricia Louise	Charleroi	Washington
Dzara, Fred T.	Perry Twp.	Fayette
Edwards, James P.	Brownsville	Washington
Edwards, Joseph E.	Centerville	Washington
Emler, Albert R., Jr.	Pittsburgh Academy	Washington
Emmer, Thomas John	California Community	Washington
Ermlich, Constance Mae	California Community	Washington
Etheridge, James C.	Vernon	Westmoreland
Evans, Thomas Springer	Charleroi	Fayette
Franks, William J.	Charleroi	Washington
Garella, Albert Peter	Brownsville	Fayette
Glunt, David Latta	Charleroi	Washington
Grant, Raymond M.	Monessen	Westmoreland
Gray, Robert Lee	California Community	Washington
Guthrie, M. Jane	Washington	Washington
Gymorie, Melvin John	Centerville	Washington
Hanna, Omer M.	South Union	Fayette
Hayduk, Donald M.	Charleroi	Washington
Headlee, Lois Jane	Monongahela Township	Greene
Hicks, William W.	Mt. Union	Huntingdon
Holmes, Shirley Ann	Charleroi	Washington
Holt, Arthur C.	Donora	Washington
Horner, Ivadene	Richland Township	Cambria
Imburgia, Jim	Warren G. Harding, Warren, Ohio	Trumbull
Jenkins, Thomas E.	California	Washington
Karpoff, Leo A.	Ellsworth	Washington
Kaukonen, Toivo E.	G. E. D.	Washington
Kielhofer, Richard W.	Charleroi	Washington
Kennedy, James R.	California Community	Washington
Kern, Milton E.	Monongahela	Washington
Kinnaird, Dorothy E.	Charleroi	Washington
Kunkle, Ned Thomas	Monessen	Westmoreland
Kuzemka, Andrew	Donora	Washington
Longo, Joseph	Brownsville	Fayette
Luce, H. David	Perry Township	Fayette
Maatta, Norma E.	Monessen	Westmoreland
Maple, Harry B.	Mayletown	Washington
Maple, Thomas W.	California Community	Washington
Martin, Shirley Ann	Grove City	Lawrence
Mazzocco, Dan Edward	Perry Twp.	Fayette
McAdoo, Dorothy Jean	West Alexander	Washington
McAlpine, Kay D.	Monesen	Westmoreland
McBride, James E.	South Union	Fayette
McCarty, Wayne S.	Estella	Sullivan
McDowell, Clyde A., Jr.	California	Washington
Miller, E. LaVerne	Elizabeth	Allegheny
Mottle, Edward F.	German Township	Fayette
Mounts, M. Kenneth	Claysville	Washington
Muckle, Roy T.	Charleroi	Washington
Narey, Jack R.	Monessen	Westmoreland
Oliver, Thomas	Belle Vernon	Fayette

Name	High School Alma Mater	Resident County
Osborne, John H.	Charleroi	Washington
Pandolph, Ernest T.	Donora	Washington
Pepper, Margaret Ann	Centerville	Washington
Perna, Ruth Louise	Perry Township	Westmoreland
Picchiarini, William A.	Vernon	Westmoreland
Pringle, John N.	Redstone	Fayette
Ranshaw, Edward S.	Henry C. Conrad	Washington
Reed, James J.	Vernon	Fayette
Richards, Lewis S.	East Bethlehem	Washington
Riley, Wayne N.	East Pike Run Twp.	Washington
Robison, Thomas James	Shenango	Lawrence
Ronzio, Gary C.	Dunbar Township	Fayette
Rossi, Jaquelyn Ann	Connellsville	Fayette
Rumora, Peter G.	Donora	Washington
Rubey, Paul	Hollywood, California	Westmoreland
Russell, Catherine M.	Charleroi	Fayette
Sapko, Donald R.	Charleroi	Washington
Schutte, Thomas H.	California Community	Washington
Sellar, Samuel Louis	Belle Vernon	Fayette
Shifler, Dolores Mae	Elmer Wolfe H. S., Union Bridge	Washington
Shoaf, Joseph B.	Maryland	Fayette
Schultz, Agnes Lee	Brownsville	Fayette
Smedley, Emile E.	Rostraver Township	Westmoreland
Smith, Wendall	Cecil	Washington
Springer, James M.	North Union	Fayette
Stasak, Dolores C.	Brownsville	Fayette
Stavros, Emmanuel M.	New Kensington	Westmoreland
Stevenson, Paul R.	German Township	Fayette
Stonick, Joan M.	McKeesport Vocational	Allegheny
Sullivan, Darwin J.	California Community	Washington
Teluch, Anthony J.	Charleroi	Washington
Townsend, James F.	Ellsworth	Washington
Taelepis, Steve	Perry Township	Fayette
Tworaydo, Joseph J.	Aliquippa	Beaver
Vanaman, Gerald F.	Centerville	Washington
Warren, Kathryn L.	Confluence	Somerset
Watkins, John P.	Elizabeth	Allegheny
Webber, Mary Jane	California Community	Washington
Winge, Patricia Ann	California Community	Washington
Woodward, G. William	Redstone	Fayette
Yohe, James H.	Monessen	Westmoreland
Zielinski, Edward A.	Monessen	Westmoreland
	Braddock	Allegheny

SOPHOMORES		
Allison, Milton T., Jr.	Perry Township	Fayette
Alvarez, Louis A.	Donora	Washington
Bailey, Mitchell M.	California	Washington
Benedict, Jacqueline Lee	California	Washington
Betler, Dolores	Charleroi	Washington
Bill, Samuel J.	Redstone	Fayette
Bittner, Jennie K.	South Union	Fayette
Carson, M. Elaine	Charleroi	Washington
Claypool, William	Leetsdale	Allegheny
Colelli, Grace Ann	Vernon	Westmoreland
Collier, Wilson L.	Brentwood	Allegheny
Dalson, Gitza	Brownsville	Fayette
D'Auria, Mario Vincent	Uniontown	Fayette
Dearth, John B.	Brownsville	Fayette
Demeter, Donald L.	Donora	Washington
Dochinez, Joe	Monongahela	Washington
Fausser, David Karl	Ambridge	Beaver
Furman, John E.	West View	Greene
Gabler, Wilmot N.	Chambersburg	Franklin
Gay, Joseph W.	Uniontown	Fayette
Guswiler, Mary L.	California	Washington
Hall, John Knox	California	Washington
Hall, Joseph R.	Brownsville	Fayette
Hamer, R. Allen	Belle Vernon	Fayette
Heycock, John Russell	Lemoine	Cumberland
Krumanaker, John R.	Ebensburg-Cambria	Cambria
Larson, C. Herbert, Jr.	McKeesport Teach	Allegheny
McLucky, Robert P.	Perry Township	Fayette
Miller, Barbara Ann	South Hills	Allegheny

Name	High School Alma Mater	Resident County
Miller, Harry B.	Elizabeth	Allegheny
Morgan, Joyce P.	East Pike Run Twp.	Washington
Novakovich, John N.	Monessen	Westmoreland
O'Hara, Donald G.	Lincoln	Lawrence
Pavic, John	Redstone	Washington
Pedersen, William	Taylor Allderdice	Allegheny
Pringle, Edward M.	Redstone	Fayette
Protz, Margaret M.	Donora	Washington
Reynolds, Joseph R.	St. Vincent	Westmoreland
Ricco, Louis F.	Brownsville	Fayette
Ripepi, Angelo A.	Monongahela	Allegheny
Rosenfeld, Norman	Peabody	Allegheny
Savage, Gloria Lee	California	Washington
Shainoff, John R.	California	Washington
Sloan, Grant E.	Charleroi	Washington
Smith, Nelson H.	Southmont	Washington
Stottlemeyer, James	Union	Washington
Weir, Juanita June	Bentleyville	Washington
Wiita, John W.	Monessen	Westmoreland
Wiseman, M. Violet	Monessen	Westmoreland
Wright, Charles T.	Leetsdale	Allegheny
Zemo, George, Jr.	Uniontown	Fayette

JUNIORS

Angello, James P.	Hastings	Cambria
Astorina, Francis S.	Burgettstown	Washington
Bollinger, Henry E., Jr.	Charleroi	Washington
Bowden, Holmes M.	Rostraver	Westmoreland
Brownfield, Frank	South Union	Fayette
Buraczewski, Edward J.	Charleroi	Washington
Buttermore, Donald O.	Perry Township	Fayette
Cone, Elmer	Brownsville	Washington
Conway, Joseph T.	Donora	Washington
Easter, Donald J.	Perry Township	Fayette
Ehrhardt, Thomas O.	Washington	Washington
Emler, James C., Jr.	Donora	Washington
Forsyth, Martha Ann	Monongahela	Washington
Fulton, Robert W.	Donora	Washington
Halter, Louis N.	Westinghouse Memorial	Allegheny
Harvey, Frank C.	Saxton, Liberty	Westmoreland
Henkel, James V.	Moon Township	Allegheny
Hulings, Clifford P.	California	Washington
Janosik, John E.	Redstone	Fayette
Kubovic, Dolores V.	Union	Washington
Ludwig, Joseph D.	Monongahela	Washington
Martin, Vincent C.	McKeesport Tech	Allegheny
Medvick, William H.	Charleroi	Washington
Mourier, Regis P.	Knoxville	Washington
Nikonchik, John	Redstone	Fayette
Pietrzak, Ray L.	Knoxville	Allegheny
Posa, Edward R.	Elizabeth	Allegheny
Puglia, Eugene E.	Brownsville	Fayette
Ray, Mary Lou	Sewickley Township	Westmoreland
Riggs, George W.	Uniontown	Fayette
Riser, Harry D.	E. Washington	Washington
Roodhouse, James S.	Hershey Ind. School	Indiana
Sacco, William J.	Clairton	Allegheny
Sealise, Josephine E.	Donora	Washington
Schwartz, Albert Perry	Belle Vernon	Fayette
Seaberg, Lowell G.	Pittsburgh Academy	Washington
Shaw, Robert L.	Monongahela	Washington
Sproul, Ruby F.	Ohio Pyle	Fayette
Stipkovich, Steve	Centerville	Washington
Sullivan, Edward S.	Charleroi	Washington
Tarr, Betty G.	California	Washington
Taylor, William Jay	Sewickley Township	Westmoreland
Wbeck, James E.	Centerville	Washington
Yezioro, Edward T.	Uniontown	Fayette

SENIORS

Bauer, John W.	California	Washington
Berwick, H. Orville	Brownsville	Fayette

Name	High School Alma Mater	Resident County
Brisbane, Joseph S.	Greensburg	Westmoreland
Budris, Richard A.	Ellsworth	Washington
Caruso, Francis T.	California	Washington
Cherry, John T.	Brownsville	Fayette
Diederich, Fred W.	Brownsville	Fayette
Donovan, Anthony	Redstone Township	Fayette
Donovan, Michael J.	St. Johns	Westmoreland
Fontanelli, Eugene	Monessen	Westmoreland
Guest, William F.	Jeannette	Clearfield
Hahn, William P.	Coalport	Fayette
Hardy, William W.	Dunbar Township	Washington
Hartley, Laura Jean	Monongahela	Blair
Hepner, William D.	Altoona	Washington
Hormell, Joseph Glen	California	Allegheny
Jacobs, Joseph	McKeesport	Fayette
James, Jack R.	Connelsville	Washington
Kasich, George	West Newton	Westmoreland
Kennedy, Dan T.	East Pike Run Township	Washington
Kinlead, Ralph V.	Greensburg	Westmoreland
Kirlik, Michael	Brownsville	Fayette
Krotz, Robert C.	Norwin Union	Westmoreland
Logan, Joan L.	Charleroi	Washington
McCormack, Thomas E.	West Newton	Westmoreland
McDonough, Daniel	Marion	Washington
Michaelson, Gloria Ann	Cumberland	Washington
Mickalovich, Stanley F.	East Pike Run Township	Washington
Mori, Armand P.	Morressen	Westmoreland
Nesti, Robert	Charleroi	Washington
Newmeyer, John J.	Charleroi	Washington
Owens, Fred C.	Brownsville	Fayette
Owens, Joseph J.	German Township	Fayette
Petach, Basil R.	McKeesport Vocational	Allegheny
Phillips, Edward	East Pike Run Township	Washington
Phillips, Elizabeth M.	Greene	Greene
Savel, Thomas	Carmichaels	Fayette
Say, Frank	Redstone	Washington
Scales, Richard H.	East Bethlehem	Washington
Scarcella, Anthony A.	West Newton	Westmoreland
Scheuerle, William A.	Scwickley Township	Westmoreland
Schmidt, William A.	J. Sterling Morton, Cicero, Ill.	Cook, Illinois
Shuma, Stephen	McKeesport	Allegheny
Simmons, William E.	Weirton, West Virginia	Washington
Stevenson, Clarence Lee	South Hills	Allegheny
Tarr, Robert C.	Brownsville	Fayette
Tomko, Edward M.	Washington	Washington
Wilson, John R.	California	Fayette

GRADUATES

Francis, Susan Estella	South Union Township	Fayette
Guarascio, William R.	Donora	Washington
Kutemka, William	Donora	Washington

STUDENTS IN THE INDUSTRIAL ARTS CURRICULUM

FRESHMEN

Name	High School Alma Mater	Resident County
Abbott, Harry Ellsworth	Carnegie	Allegheny
Araway, Francis	Cooper Township, Perth Amboy, N. J.	Middlesex
Ashworth, Robert Harry	Penn Township	Allegheny
Austin, Thomas Albert	California	Washington
Backus, Edward C.	Westinghouse Memorial	Allegheny
Baker, Charles William	Somerseset	Somerseset
Ballard, Roy L.	Washington	Washington
Bates, Martin William	Beaver	Beaver
Beattie, Thomas E.	Brownsville	Fayette
Berceli, Louis C.	South Fayette	Allegheny
Bernlohr, George Louis	Butler	Butler
Black, Howard Edwin	Greensburg	Westmoreland
Black, Paul, Jr.	Jeannette	Westmoreland

Name	High School Alma Mater	Resident County
Bobak, John	Ambridge	Beaver
Bobby, Andrew	East Pike Run Township	Washington
Bonaroti, Pete J.	Oakmont	Allegheny
Boyer, Paul L.	Cranberry	Venango
Brenchak, William E.	Conemaugh Township	Somerset
Cahill, Duane H.	Charleroi	Washington
Celaschi, Norman L.	Charleroi	Washington
Chapala, Walter V.	Ambridge	Beaver
Cianciotto, Andrew	Penn Township	Westmoreland
Clark, Robert L.	Huntingdon	Huntingdon
D'Amato, Anthony Francis	New Castle	Lawrence
DeFrancesco, Michael J.	Charleroi	Washington
Diehl, Lawrence Louis, Jr.	Washington	Washington
Dietrich, Robert Frank	Windber	Cambria
Douglas, John Robert	California Community	Washington
Dyne, Wallace R.	Kane	McKean
Egler, A. Robert	Monessen	Westmoreland
Feath, Robert M.	Ebensburg-Cambria	Cambria
Fiori, Ernest A., Jr.	Charleroi	Washington
Fleming, Leonard Vance	Uniontown	Fayette
Flora, Richard	William Penn	Dauphin
Follett, Earl Gilbert	John Harris	Dauphin
Forsythe, Carl James	Brownsville	Washington
Foster, Glen N.	Perry	Allegheny
Furlong, Dwayne	California Community	Washington
Gallagher, Eli Joseph	California Community	Washington
Goss, Floyd Wayne	South Hills	Washington
Georgevich, Maurice	Clearfield	Allegheny
Glaser, Harry William	McKeesport Tech	Allegheny
Grove, R. Neale	German Township	Fayette
Gruber, John H.	McKeesport Tech	Allegheny
Halama, Nikolaj	Aliquippa	Beaver
Hardesty, William D., Jr.	Allegheny /, Cumberland, Maryland	Allegheny
Hawxhurst, Wayne A.	Indiana	Allegheny
Heidrich, Joseph Harvey	Connelley Vocational	Allegheny
Hemans, William G.	Carriek	Allegheny
Henry, William G.	Coraopolis	Allegheny
Hiliard, Charles T.	South Hills	Allegheny
Hornel, Donald I.	East Pike Run Township	Allegheny
Horney, Nick	Shenango	Washington
Jacobs, John Allen	Elizabeth	Lawrence
Johns, Ralph E.	Clairton	Allegheny
Johnston, Donald C.	South Hills	Allegheny
Johnston, Lloyd B.	Monessen	Allegheny
Jordan, James N.	Erie Academy	Westmoreland
Karasack, Earl R.	Latrobe	Erie
Kaufman, Richard E.	Conemaugh Township	Westmoreland
Kern, Paul	Hurst	Somerset
Kernan, William G.	Aspinwall	Westmoreland
Kinback, George	Blakely	Allegheny
Kovalchick, John E.	East Pike Run Township	Lackawanna
Kuntz, Walter L.	Latrobe	Washington
Laba, Mike	Brownsville	Westmoreland
LaBorde, Donald L.	DuBois	Fayette
Larson, Donald D.	Rostraver	Clearfield
Lazzari, Rio Joseph	Belle Vernon	Westmoreland
Liebegott, John W.	Williamsburg	Fayette
Lohr, Ray E.	Stoystown	Blair
Lytte, Robert T.	Robert Clark	Dauphin
Mains, Howard	Turtle Creek	Venango
Mammarella, Tony	Brownsville	Allegheny
Mankamy, Donald H.	Meyersdale	Fayette
McKevitt, Charles A.	Marion	Somerset
McMaster, Louis M.	Bethel	Fayette
Meredith, Donald E.	Northumberland	Allegheny
Michael, Gwyn Eugene	Punxsutawney	Northumberland
Moon, Wayne V.	Mars	Blair
Moser, Russell	Brownsville	Allegheny
Moxie, Francis E.	East Deer	Washington
Munhall, Walter F., Jr.	Taylor Alderdice	Allegheny
Myett, Wayne A.	Donora	Allegheny
Nasta, Donald A.	McKeesport Vocational	Washington
Nelson, Robert W.	Oil City	Allegheny
Nicholas, Robert Rae	Taylor Alderdice	Venango
Peterson, John Edward	Centerville	Allegheny
Philip, Nelson L.	Centerville	Washington

Name	High School Alma Mater	Resident County
Pidanich, Frank	Brownsville	Fayette
Podlogar, John W.	Brownsville	Fayette
Porzucek, Chester F.	Brownsville	Fayette
Powney, James O.	Monessen	Westmoreland
Price, Lloyd	Charleroi	Washington
Rainey, James R.	Lilly-Washington Township	Cambria
Riggle, Leonard Laverne	Elders Ridge	Armstrong
Roberts, John S.	Clairton	Allegheny
Roseberry, Ralph B.	Jefferson	Greene
Rosenlieb, David Lee	Beaver	Beaver
Roth, William C.	Bentleyville	Washington
Rottler, James M.	Immaculate Conception	Fayette
Ruby, John Robert	McKeesport Vocational	Allegheny
Sabo, Jack John	Brownsville	Washington
Schirmer, David C.	Farrell	Mercer
Schubert, Donald E.	McKees Rocks	Allegheny
Segina, Frank R.	Etna	Allegheny
Seiple, Donald William	Rostraver	Allegheny
Seitzinger, Stanley W.	St. Clair	Westmoreland
Sherry, Robert M.	Punxsutawney	Schuylkill
Shively, Darrel M.	Wheeling, West Virginia	Jefferson
Solopez, Albert	Penn	Ohio
Spangler, Mark Clement	Waynesboro	Allegheny
Squires, Gerald W.	Bentleyville	Franklin
Stanley, John T.	Belle Vernon	Washington
Staskus, Andrew, E.	Duquesne	Fayette
Taylor, James T.	Washington	Allegheny
Thomas, Forrest Dean	Franklin	Washington
Thompson, Einar T.	Taylor Alderdice	Washington
Thompson, George D.	Punxsutawney	Allegheny
Tuman, Donald E.	Charleroi	Jefferson
Urda, Thomas J.	Duquesne	Washington
Varndell, Paul F.	Uniontown	Allegheny
Vaden, Donald E.	Baldwin	Fayette
Wagner, George L.	Mechanicsburg	Allegheny
Waite, Delbert J.	Moon Township	Cumberland
Walker, W. Foster	South Hills	Allegheny
Weremeychik, Philip, Jr.	Har-Brack Union	Allegheny
White, Paul E.	McKeesport Vocational	Allegheny
Wilhelm, John J.	Tarentum	Allegheny
Williamson, Robert C.	Dormont	Allegheny
Wilson, Larry L.	Monessen	Allegheny
Worthington, Albert W.	New Hope Solebury	Fayette
Yedlowskic, Joseph L.	Ashley	Bucks
Yencso, William R.	Norwin	Luzerne
Yoder, Jack McKinley	Nanty-Glo	Westmoreland
Zetler, Alan G.	Otto Township	Cambria
		McKean

SOPHOMORES

Adams, Joseph W.	South Union	Fayette
Ayers, Robert R.	Beaver	Beaver
Beckner, William F.	Rimersburg	Clarion
Beiersdorfer, C. Walter	Jeannette	Westmoreland
Bernhardy, George William	Perry	Lawrence
Birch, Richard M.	East Bethlehem	Washington
Bodnar, Robert Edward	Windber	Cambria
Brindle, Edward E.	Latrobe	Westmoreland
Brown, Thomas, Jr.	East Pike Run Township	Washington
Burdick, William L.	Peabody	Allegheny
Cadwallader, Richard A.	Wilksburg	Allegheny
Ciccarelli, Dominic	Latrobe	Westmoreland
Debolt, William H.	Waynesburg	Greene
Deibler, Robert B.	Penn Township	Washington
De Santo, Peter J.	Oil City	Venango
Domyancic, Louis	Monessen	Westmoreland
Forges, Louis	Springdale	Allegheny
Foytick, Joe John	Donora	Washington
Grove, Richard P.	German Township	Fayette
Haidle, James T.	McKeesport	Allegheny
Haines, Norman W.	Jeannette	Fayette
Hilty, William R.	Tarentum	Allegheny
Horwath, John Michael	East Pike Run Township	Fayette
Hrabos, Clarence S.	Tarentum	Allegheny
Johnson, Arthur E.	Hazleton	Luzerne

Name	High School Alma Mater	Resident County
Kanuk, John	Shade Township	Somerset
Klein, Norman A.	East Pike Run Township	Washington
Kovacs, Elex Edward	McKeesport Vocational	Allegheny
Kutska, Nicholas	Monessen	Westmoreland
Lach, Walter	Norwin	Westmoreland
Locke, James M.	Monaca	Beaver
Longevitsh, Frank, Jr.	Union-Burgettstown	Washington
Lynch, James C.	Brownsville	Fayette
Maley, John E.	McKeesport	Allegheny
Marctan, Michael	Eat Conemaugh	Cambria
Martin, John Clifford	Kenwood	Washington
Melchitzky, John	Taylor Alderdice	Allegheny
Meyers, George W.	Ann Arbor, Michigan	Washington
Monath, Lewis R.	Brownsville	Fayette
Moraitis, John V.	Verona	Allegheny
Moudy, William H.	Warriors Mark	Huntingdon
Nabors, Lyle L.	Connellsville	Fayette
Neundorf, Norman A.	Munhall	Allegheny
Newman, Joseph A.	West, Cleveland, Ohio	Cuyahoga
Noss, Edward A.	Avonworth	Allegheny
O'Hara, James S.	Penn	Cambria
Orange, Leonard G.	Ebensburg-Cambria	Lackawanna
Pecuch, Raymond M.	Old Forge	Westmoreland
Perich, Nicholas	Monessen	Westmoreland
Phillips, Thomas	Ebensburg-Cambria	Cambria
Piotrowski, Thaddeus	Aliquippa	Beaver
Plesko, Emery	Monessen Vocational	Washington
Polm, Eugene E.	Oil City	Venango
Rea, James G.	Crafton	Allegheny
Richter, Robert C., Jr.	Freeport, Seaford, New York	Nassau
Shippling, Heiny W.	Johnsonburg	Elk
Showalter, Edward	Latrobe	Westmoreland
Sims, William P.	West Newton	Westmoreland
Skero, Andrew	Shade Township	Somerset
Sloan, Saul Jay	Schenley	Allegheny
Stasko, Benjamin	Taylor Alderdice	Allegheny
Stoops, Dale R.	Sharon	Washington
Trainer, Winfield S.	Indiana	Indiana
Voinovich, John	Duquesne	Allegheny
Watt, Ralph L.	New Castle	Lawrence
Wendelin, Ellis M.	Monessen	Westmoreland
Yorgin, Mike, Jr.	Ambridge	Beaver

JUNIORS

Aymin, Charles F.	Connelley Vocational	Allegheny
Barezuk, Adolph	Donora	Washington
Biskup, Thomas E.	Butler	Butler
Black, Thomas H., Jr.	Robertsdale	Fayette
Boyer, Charles D.	New Kensington Vocational	Allegheny
Brown, Russell A., Jr.	Crafton	Allegheny
Caulkett, James W.	Elizabeth	Allegheny
Chipser, Joseph F.	Hellertown	Washington
Ciarocchi, Joseph	Monessen	Westmoreland
DeBrito, Antonio J.	Northeast	Philadelphia
DeLonga, James C.	Bridgeville	Allegheny
Dressel, Urban L.	Dormont	Allegheny
Durany, John A.	South Union	Fayette
Elko, Bernard	Seranton Tech	Lackawanna
Fornof, Stanford G.	Oil City	Venango
Frank, Harry E.	John Harris	Dauphin
Gardiner, George S.	DuBois	Fayette
Gascoine, Harry C.	Peabody	Allegheny
Gennaule, Charles J.	California	Washington
Gerard, Jess H.	Washington	Washington
Gialas, George J.	Charleroi	Washington
Glagola, Paul E.	German Township	Fayette
Haas, Robert J.	Avonworth	Allegheny
Henry, Donald G.	Washington	Washington
Hilgert, Ronald A.	Duquesne	Allegheny
Hodinko, Bernard A.	Uniontown	Fayette
Holvey, Roland H.	Kingston	Luzerne
Hrebensch, Emilian J.	Duquesne	Allegheny
Hricko, Bernard R.	Hastings	Cambria
Johnson, Albert J.	Drury	Berk

Name	High School Alma Mater	Resident County
Kane, Joseph H.	Coudersport	Washington
Kerns, James C.	Centerville	Washington
Kruppa, J. Russell	Leetsdale	Allegheny
Laurich, William G.	South Huntingdon Township	Westmoreland
Lethaby, Ronald E.	Wesleyville	Erie
Linton, James A.	North Huntingdon	Westmoreland
Linton, John R.	North Huntingdon	Westmoreland
Long, William Richard	Allegheny	Allegheny
Marinelli, Peter	Tarentum	Washington
Marvel, Earle E.	Claymont, Holly Oak, Delaware	North Carolina
Matthews, William G.	South Hills	Allegheny
McCrorry, John C.	Fayette City	Washington
McLaren, William Jay	Monessen Vocational	Westmoreland
Murray, William T.	Monongahela	Washington
Nemerofsky, George	chenley	Allegheny
Placchi, Howard S.	East Bethlehem	Washington
Pysznik, Bruno Peter	Technical, Springfield, Massachusetts	Hampden
Rankin, Lawrence	North Union	Fayette
Sebastian, Carmine	Nassport	Allegheny
Selden, Frank A.	Oil City	Venango
Skoff, Robert W.	Etna	Allegheny
Smith, Donald A.	Latrobe	Westmoreland
Smith, Herbert T.	South Huntingdon	Westmoreland
Smith, James S.	Scottdale	Fayette
Spence, William W.	Charleroi	Washington
Stagi, William R.	Monessen	Westmoreland
Sullivan, William S., Jr.	New York Military Academy	Bucks
Swearman, Jack F.	Meversdale	Somerset
Templeton, Charles W.	Connelley	Westmoreland
Tremaine, Cecil H.	Carrick	Allegheny
Uhl, William H.	Shaler Township	Washington
Varkonda, George	Monessen Vocational	Westmoreland
Vecheck, James C.	Brownsville	Washington
Wawerchak, William	Monessen	Westmoreland
Wicker, Robert S.	Peabody	Allegheny
Zema, James William	Ramsay	Westmoreland

SENIORS

Baker, Charles E.	Somerset	Allegheny
Barr, Donald E.	Clairton	Allegheny
Bellini, Anthony J.	Taylor Alderdice	Allegheny
Bordas, Edward D.	Dunbar Township	Fayette
Bosley, George M.	Portage	Cambria
Burger, Francis M.	Monessen	Westmoreland
Burton, Albert G.	Braddock	Allegheny
Carlson, Clifford	Donora	Washington
Cronauer, Francis E.	Portage	Cambria
Cronauer, Harold T.	Portage	Allegheny
Davis, Raleigh H.	Orden	Fayette
Dennis, Ralston	North Union	Fayette
Falbo, George	Monessen	Westmoreland
Flemming, Paul R.	Butler	Butler
Freeman, Howard G.	Albion	Erie
Grigutis, Albin Anthony	Kingston	Luzerne
Gross, Norman J.	Knoxville	Allegheny
Grottenhaier, Edward L.	Springdale	Allegheny
Hepler, Donald E.	West Newton	Westmoreland
Hess, Daniel E.	Redstone Township	Fayette
Hicks, Rodger H.	Brownsville	Fayette
Huggens, Sterling D.	Hanover	York
Irvin, Daniel W.	Bellevue	Washington
Ivkovich, Mile	Steubenville, Ohio	Washington
Kackenmeister, Carl F.	Williamsport	Lackawanna
King, Frederick	Elderton	Fayette
Kovach, Joseph W.	Portage	Cambria
Kristy, Thomas M.	Penn	Allegheny
Laughlin, Charles A.	Porter Township	Clairion
Liko, John	California	Washington
Lovell, Jack R.	White Memorial	Clairion
MacFee, Norman W.	Butler	Butler
Maguschak, Andrew J.	Mingo Junction, Ohio	Jefferson
Malush, Rudolph E.	Monessen	Westmoreland
Mathews, Orrie G.	Lincoln	Lawrence
Means, James R.	Dunbar Township	Washington

Name	High School Alma Mater	Resident County
Mislanovich, George	Clairton	Allegheny
Niemala, Everett A.	Charleroi	Washington
Ober, Clyde E.	Clymer	Indiana
Oreski, Thomas J.	Wilmerding	Allegheny
Pekar, Joseph G.	Donora	Washington
Pelini, William A.	New Castle	Lawrence
Pivrotto, Robert	South Hills	Allegheny
Reyburn, Robert H.	Latrobe	Washington
Roscoe, Wilbert T.	McKees Rocks	Allegheny
Rotella, Dominick P.	Steubenville, Ohio	Jefferson
Russ, George J.	Hershey Industrial	Washington
Sammons, Frederick W.	Wattsburg	Erie
Schutte, Bryson M.	California	Washington
Scott, Floyd	Center Township	Washington
Sebastian, John Philip	Redstone Township	Allegheny
Seidling, Lawrence	Clairton	Allegheny
Shaw, Rhessa G.	Scottdale	Westmoreland
Shope, Max R.	Snow Shoe	Centre
Sinclair, James, Jr.	Donora	Washington
Singleton, Ira James, Jr.	East Pike Run Township	Washington
Skirtich, Joseph P.	Allegheny	Allegheny
Skubiak, Paul	Neville Township	Allegheny
Smith, Derbert D.	Worth Township	Centre
Smith, Norman R.	Georges Township	Fayette
Soloski, Frank E.	Kittanning	Armstrong
Stanford, Wilbur, Jr.	Pottstown	Beaver
Stewart, Claude R.	Rimersburg	Clarion
Strong, Harry P.	Harborcreek	Erie
Tanner, Donald P.	State Equivalent	Allegheny
Tarosky, George	Vandergrift	Westmoreland
Traub, George B.	Luzerne	Luzerne
Wadlow, William F.	Bellevue	Allegheny
Wallis, Robert	Lincoln	Butler
Wallis, W. Dale	Kingwood, West Virginia	Preston
Williams, Anchor L.	Central	Bedford
Winters, John A.	Boswell	Somerset
Wissinger, Arthur	Greensburg	Westmoreland
Yount, Tim B.	Vandergrift	Westmoreland
Zielinski, Victor S.	Braddock	Allegheny

GRADUATES

Bartosh, John Frank	East Bethlehem	Washington
Muellerschoen, Herman A.	Norwin Union	Westmoreland

THE PENNSYLVANIA STATE COLLEGE STUDENTS
ENROLLED AT CALIFORNIA

FRESHMEN		
Name	High School Alma Mater	Resident County
Abernethy, John Raymond	Charleroi	Washington
Alexander, Howard W.	Clairton	Washington
Alldridge, Lois Jane	Donora	Washington
Anders, Paul Louttit	Monongahela	Washington
Angert, Richard Walter	Ebensburg-Cambria	Cambria
Artico, Velma Vivian	Warren	Warren
Atwell, William W.	New Cumberland, West Virginia	Hancock
Banks, Joseph Bernard	Sunbury	Northumberland
Barfoot, Joseph Paul	Quemahoning-Stoystown	Somerset
Bargine, Marian	South Union	Fayette
Barletta, Pete Eugene	Punxsutawney	Jefferson
Barney, Donald Heland	Academy	Erie
Barry, Albert Louis	Donora	Washington
Behm, Frank	Richill Township	Greene
Bell, Joseph P.	North Catholic	Allegheny
Bickel, Merle Gene	Blair	Blair
Black, Ruby E.	Monongahela Township	Greene
Bleiberg, Miriam	Jeannette	Westmoreland
Blissman, Joan	Wilmerding	Allegheny
Brain, Andrew D.	Uniontown	Fayette
Brown, Allan Philip	Aliquippa	Beaver
Brown, Edward E.	Fishburne Military	Allegheny
Burns, James W.	Richhill Township	Greene
Burson, William C.	Connellsville	Fayette
Caricato, Charles Robert	Monessen	Westmoreland
Carroll, William M.	Jeannette	Washington
Cherry, James Darlington	Swissvale	Allegheny
Christner, Elvy Wayne	Hurst	Westmoreland
Chvasta, Joseph F.	Central Catholic	Allegheny
Cooper, Harold D.	Redstone Township	Fayette
Cooper, Merle D.	Westinghouse	Allegheny
Costello, James Peter	Malverne, Lynbrook, New York	Nassau
Craver, Roger H.	Barnesboro	Cambria
Daley, John	Langley	Allegheny
Donowski, John	Erie Academy	Erie
Davis, Robert	Jefferson	Greene
DePetro, Joseph J., Jr.	Independence Township	Washington
DiBello, Lenore Jean	Washington	Washington
Diehl, Jere Miller	Bedford	Bedford
Dooley, James Joseph	South Williamsport	Lycoming
Dunn, John Robert	Bellefonte	Centre
Evans, John L.	McKeesport Vocational	Allegheny
Evens, Clifford H., Jr.	Tredyffrin Easttown	Chester
Farkas, John, Jr.	Coraopolis	Allegheny
Fearheller, John Joseph	Royersford	Montgomery
Fisher, John J.	Ccraopolis	Allegheny
Galiardi, Rose Marie	Immaculate Conception	Fayette
Gazley, John Collins	Ponce de Leon, Florida	Allegheny
Godfrey, Milton E., Jr.	Washington-Lee, Arlington, Virginia	Arlington
Goodman, Jack B.	Cumberland Township	Greene
Gorant, Timothy Peter	Sharon	Mercer
Gordon, Thomas, Jr.	Perry	Allegheny
Gratson, Joseph E.	Dunbar Township	Fayette
Gray, Richard E.	Uniontown	Fayette
Grooms, Ira Glenn	Cumberland Township	Greene
Grooms, Robert R.	Cumberland Township	Greene
Hall, Donald Richard	Scott Township	Allegheny
Hanek, Michael	Brownsville	Fayette
Harding, Paul E.	Washington	Washington
Harris, Robert L., Jr.	Vandergrift	Westmoreland
Henry, Joseph E.	Washington	Washington
Horak, Nevin Frank	Ramsay	Westmoreland
Hugi, Janice Lee	Washington	Washington
Johnston, William G.	Somerset	Somerset
Kappes, Francis A.	Princeton, New Jersey	Mercer
Kay, Bruce Scott	Mator Beal, Hartsdale, New York	Westchester
Keelan, Richard H.	Southmont	Cambria
Keith, Ross W.	Central, Washington, D. C.	D. C.

Name	High School Alma Mater	Resident County
Keys, Russell	East Bethlehem	Washington
Kindler, Archie L., Jr.	Centerville	Washington
Kowolski, Edward J.	Scott Township	Allegheny
Kraft, Glenn	Donora	Washington
Lake, Walter	Aliquippa	Beaver
Lavin, Eusebio Sisto	Latrobe	Westmoreland
Legeza, Richard F.	Monongahela	Washington
Leo, Joseph A.	Aliquippa	Beaver
Lewis, Robert	Greenbrier Military, Brooklyn, N. Y.	Kings
Little, Andrew W.	Rostraver	Westmoreland
Lynch, George	Latrobe	Westmoreland
Mall, Ronald T.	Mt. Lebanon	Allegheny
Marshall, Thomas Joe	Connellsville	Fayette
Mason, Howard M.	Bethel Township	Allegheny
Matush, Joanne Elsa	Monessen	Westmoreland
Mattock, Richard A.	Lincoln	Lawrence
Mautino, John A.	Jeannette	Westmoreland
McCombs, George E.	Uniontown	Fayette
McDonough, Jack B.	Braddock	Allegheny
McDonough, Richard R.	Peabody	Fayette
Megles, John E.	Ellsworth	Washington
Merwin, William W., Jr.	Redstone	Fayette
Metz, Robert F.	Latrobe	Westmoreland
Miller, Paul J.	Conemaugh Township	Somerset
Miller, Paul L.	Centerville	Washington
Minor, Marilyn Jean	South Hills	Allegheny
Morley, Alison C.	Peabody	Allegheny
Morris, Roland Davis	St. Luke	Allegheny
Murdoch, Walter G.	Sharon	Mercer
Needleman, Gertrude	West Philadelphia	Philadelphia
Nichelson, Robert Jack	Charleroi	Washington
Noel, Kenneth L.	Tyrone	Blair
Ogden, Alfred Edwin	Peabody	Allegheny
Odiorne, David W., Jr.	Wilkesburg	Allegheny
Paler, George E., Jr.	East Bethlehem	Washington
Parsons, Norman Ray	Centerville	Fayette
Pfirman, Carl Leroy	Lycoming	Lycoming
Piacentino, Rudolph A.	Jeannette	Westmoreland
Pichard, Wilbur L.	East Pike Run Township	Washington
Pippert, John C.	Monongahela	Washington
Pollard, Robert Phillip	Berwyn	Chester
Porreca, Guido	Charleroi	Washington
Powell, Don Reed	California Community	Washington
Prisuta, Steve	Aliquippa	Beaver
Radman, Daniel Jack	Augusta Military Academy	Fayette
Raifsnider, Wayne H.	Chambersburg	Franklin
Rankin, Bruce P.	Rostraver	Westmoreland
Remaley, Nicholas D.	Monessen	Westmoreland
Riedl, Helen Lois	Coraopolis	Allegheny
Riggie, Ralford B.	Center Township	Greene
Rodfong, Truman P.	Midland	Beaver
Rostich, Joseph E.	Uniontown	Fayette
Schalit, Marion M.	Uniontown	Fayette
Schar, Virginia E.	Shaler	Allegheny
Schafer, William H.	Langley & Mercersburg	Allegheny
Schmidt, Thomas F.	Scranton Tech	Lackawanna
Schorr, Ralph H.	Carrick	Allegheny
Schultz, Robert F.	Arnold	Westmoreland
Schwirian, Ralph D.	McKeesport Tech	Allegheny
Sechler, Patricia Lee	Masontown	Fayette
Shattuck, Fred William, Jr.	Warren	Warren
Shearer, Kenneth E.	Rostraver	Westmoreland
Simcox, Charles D.	Cooper Township	Clearfield
Simmons, Arnold John	Harborcreek	Erie
Simon, David G.	Brownsville	Fayette
Simpson, Paul Gordon	Dormont	Allegheny
Sloan, Dwight A.	Brownsville	Fayette
Smith, Peter Michael	Bellefonte	Centre
Smith, Robert A.	Bentleyville	Washington
Soens, Ted Colton	Peabody	Allegheny
Sorensen, Niels Morris	Radnor	Delaware
Sowers, David Matthew	Ellsworth	Washington
Spinelli, James L.	Sharon	Mercer
Sredenschek, Alan Richard	Mont Pleasant, Schenectady, N. Y.	Schenectady
Strenske, Pat Lee	Rostraver	Westmoreland
Studen, Emil E.	Midland	Beaver
Suder, Burton	Lorain, Ohio	Lorain
Suomela, K. Patricia	Monessen	Westmoreland

Name	High School Alma Mater	Resident County
Talbert, William L.	Georgetown, Delaware	Sussex
Tardio, Patricia Rose	South Hills	Allegheny
Terry, John Russell	Frankford	Philadelphia
Todaro, Joan G.	Monessen	Westmoreland
Tritsch, William H.	Butler	Butler
Uppstrom, Richard L.	Washington	Washington
Van Sickle, Donald P.	Bradford	Warren
Victor, John R.	Monongahela	Washington
Warman, Guy Lee	Masontown	Fayette
Weitz, Paul J., Jr.	Harborcreek	Erie
Wells, Benjamin P., Jr.	Turtle Creek	Allegheny
Whitefield, William H.	Donora	Washington
Williamson, Mary L.	Cumberland Township	Greene
Willson, James R.	Sewickley	Allegheny
Wolfe, John T.	Charleroi	Washington
Wolff, Boyd E.	Greensburg	Westmoreland
Wolff, Norman P.	Avalon	Allegheny
Wolfgang, George I.	Stowe Township	Allegheny
Wunderlich, Charles H.	Donora	Washington
Yukica, Joseph M.	Lincoln	Beaver
Zemanak, John E.	Turtle Creek	Allegheny

FRIDAY EVENING AND SATURDAY CLASSES

Allinder, Irma M.	Oakdale	Allegheny
Artis, Noah F.	East Pike Run Township	Washington
Barber, Clara S.	German Township	Fayette
Barkley, Eldon H.	Somerset	Somerset
Barthels, Cecilia, A.	Connellsville	Westmoreland
Bauer, Margaret J.	East Pike Run Township	Washington
Baxter, Eugenia M.	Monongahela	Washington
Beatty, Oakie M.	Georges Township	Fayette
Beeler, Ida M.	Donora	Washington
Beisel, Edna M.	Charleroi	Washington
Berringer, Edward M.	Taylor Allderdice	Allegheny
Bickerton, Virginia S.	Charleroi	Washington
Blaney, Mabel R.	German Township	Fayette
Blankenbuehler, Mary Elizabeth	Monongahela	Washington
Bullock, Novella K.	California	Washington
Burton, Betty W.	Monongahela Township	Greene
Cairns, Annabelle M.	California	Washington
Cappellini, Laura	Masontown	Fayette
Carson, Marjorie Ann	Charleroi	Washington
Caton, Ruth W.	Uniontown	Fayette
Cheselske, John C.	Sewickley Township	Westmoreland
Clelland, Hazel E.	Dunbar Township	Fayette
Clemens, Verna M.	Trinity	Washington
Colbert, Gail M.	Union	Fayette
Collins, Mary E.	Connellsville	Fayette
Crouch, Marjorie Louise	East Pike Run Township	Washington
Curcio, Frederick D.	Brownsville	Fayette
Darrall, Leanna M.	Scottdale	Fayette
Davis, Helen Clifford	Ligonier	Washington
Davis, Mildred Irene	North Union	Fayette
Davis, Thomas Edgar	Georges Township	Fayette
De Antonio, Catherine Kulak	East Pike Run Township	Washington
Deuar, Agnes Jeanne	California	Washington
Edwards, Virginia L.	East Pike Run Township	Washington
Feesen, Helen	Charleroi	Washington
Fee, Josephine C.	Uniontown	Fayette
Forbes, Christine Thais	California	Washington
Francis, Alice Thelma	Connellsville	Fayette
Frasconi, Lidi	German Township	Fayette
Frazier, Rowena H.	Bentleyville	Washington
Freeman, M. Fern Loos	East Pike Run Township	Washington
Freyer, Leah M.	California	Washington
Graham, Kathryn Marie	Clairton	Allegheny
Gray, Dolores E.	Charleroi	Washington
Greene, John William	South Huntington	Westmoreland
Grove, Aloda M.	German Township	Washington
Gunderman, Elma M.	Charleroi	Washington
Guttery, Margaret E.	Washington	Washington
Haines, Evelyn R.	Fort Hall, Cumberland, Md.	Fayette
Hankins, Jane Mae	Uniontown	Washington
Harkins, Helen Marie	Beallsville	Washington
Harris, Mary Alice	East Pike Run Township	Washington

Name	High School Alma Mater	Resident County
Henderson, John Thomas	Donora	Washington
Hepner, Anna Rita	South Huntingdon	Westmoreland
Herring, Eleanor Marie	Uniontown	Fayette
Hill, Antoinette Behm	Brownsville	Fayette
Holod, Pauline	West Newton	Westmoreland
Hutchinson, Margaret K.	Dormont	Washington
Jeffries, Rachel J.	Brownsville	Fayette
Johnston, Mary Emma	Trinity	Washington
Jones, Veneen Paul	Rostraver Township	Westmoreland
Keener, Emma Johanna	Warren	Fayette
Kikta, Elizabeth	German Township	Fayette
Korenko, Elizabeth	Redstone Township	Fayette
Kosanovich, Mildred S.	Turtle Creek	Allegheny
Kula, Joseph F.	Georges Township	Fayette
Kyle, Henry J.	Redstone Township	Fayette
Laby, Lawrence	Brownsville	Fayette
Lazaran, Violet Marie	Brownsville	Fayette
Leeper, Ada Belle	Rostraver	Washington
Lilley, Zetta V.	German Township	Fayette
Lindsay, Elizabeth H.	Canonsburg	Washington
Lowden, Frances L.	St. Thomas	Allegheny
Lozar, Helen Ann	Scuth Union	Fayette
Lucostie, Marguerite E.	Redstone	Fayette
Lynn, Florence E.	Charleroi	Washington
Marano, John Henry	Georges Township	Fayette
Marietta, Florence L.	Connellsville	Fayette
McCleary, Mary Fallon	Seton Hill	Westmoreland
McClelland, Marianna	Masonstown	Fayette
McClurg, Grace E.	Charleroi	Washington
McCune, Robert Charles	Sewickley Township	Westmoreland
McKnight, Pauline Frances	Redstone	Fayette
Meyers, Martha Louise	Dunbar Township	Fayette
Mitchell, Nellie Mary	Beallsville	Washington
Mitchell, Rachel Annie	Bentleyville	Washington
Moore, Helen E.	Charleroi	Washington
Morris, Emily	North Union Township	Fayette
Moss, Edythe	Donora	Washington
Myers, Albert Franklin	Charleroi	Washington
Neal, Agnes Mary	Sewickley Township	Westmoreland
Nemec, Peter V., Jr.	Charleroi	Westmoreland
Parker, Gladys B.	Wallingford, Vermont	Rutland
Parkins, Josephine Sterling	German Township	Fayette
Peters, Mary McGee	Charleroi	Westmoreland
Phillips, Betty Louise	Centerville	Washington
Phillips, Mary Jane	Washington	Washington
Pritts, Charles	Equivalent	Westmoreland
Pritts, John R.	Connellsville	Fayette
Pritts, Mildred C.	Monessen	Westmoreland
Pyle, Evelyn J.	Donora	Washington
Ranshaw, Rene Eloise	Centerville	Washington
Samaritana, Margaret T.	California	Washington
Sawyer, Lulu J.	Phillipsburg	Fayette
Senoff, Isabelle R.	Ligonier	Westmoreland
Serinto, Anthony	East Bethlehem	Washington
Shutok, Walter M.	Georges Township	Fayette
Silbaugh, Gertrude	Charleroi	Washington
Smith, Isabel Neil	California	Washington
Stark, John W.	Kent	Westmoreland
Steele, Helen Virginia	Richhill Township	Washington
Sterle, Frank Philip	Georges Township	Fayette
Strauch, Frank William	Redstone Township	Fayette
Sturgeon, Grace E.	Mt. Pleasant	Fayette
Tallarico, Cam Smith	Montgomery	Fayette
Tallarico, Seirfina	Trinity	Washington
Tedrow, Geraldine L.	Swatara Township	Washington
Tippen, James E.	Georges Township	Fayette
Tissue, Leland L.	Connellsville	Fayette
Tissue, Vernetta M.	Redstone	Fayette
Tognozzi, Louis J.	Charleroi	Washington
Travis, Olive M.	Connellsville	Westmoreland
Turney, Bernice E.	Belle Vernon	Fayette
Vilscek, Christine E.	German Township	Fayette
Wensing, Cecelia D.	Redstone	Fayette
Wilkins, Ruth Verna	Redstone	Fayette
Wise, Retha S.	Redstone	Washington
Woodfill, Mary E.	Georges Township	Fayette
Woodward, Ruth M.	Uniontown	Fayette
	Scottdale	Westmoreland

GRADUATES AND SENIORS

GRADUATES — CLASS OF 1949

THE ELEMENTARY CURRICULUM

August, 1948

Brown, Eleanor Hopkins	448 Brown Ave.	Butler
Burkholder, Wilmer L.		Mill Run
Burton, Elizabeth W.	R. D.	Dilliner
† Bush, Ethelyn W.		Upper Middletown
Cole, Dorothy A.	117 8th Street	Monessen
Dagg, Inez Amelia	495 Duncan Avenue	Washington
Egan, Ann Cominsky	100 W. Green Street	Connellsville
Farquhar, Elizabeth McBurnie	117 California Street	Fayette City
* Francis, Alice T.	118 Carnegie Avenue	Connellsville
Groff, Josephine Snyder	173 E. Catherine Street	Somerset
Husher, Norma Jean	R. D. 1	Perryopolis
Isabella, Mary Anne	218 Rebecca Street	Monessen
McClellan, Inez Tomasi		Fredericktown
Majorors, Lillian Jean	314 Oakland Avenue	Charleroi
Myers, Lois Gardner	Box 97	Madison
** Roberts, Joseph Bowser		Point Marion
Searles, Dorothy N.	716 Pittsburgh Street	Scottdale
Semonick, Mary K.	Box 73	Merrittstown
Shafer, Marion Valoy	222 E. Patriot Street	Somerset
Tilton, Ruby Geraldine		West Finley
Yoders, Josephine Carroll		Fredericktown

January, 1949

† Andrews, Anne Elaine	R. D. 1	New Salem
Daniero, Joseph James	Box 208	Allison
Gigangi, Carmella Genevieve	6361 Penn Avenue	Pittsburgh 6
* Eckels, Lillian Weiss	2317 Jenny Lind	McKeesport
Flanders, Florence Marie Wright	R. D. 1	Daisytown
Fleckenstein, Mary Sowa	502 West Fifth Street	McKeesport
Hayden, Mary Katherine	R. D. 1	Markleysburg
Houston, Helen Jean	R. D. 1	Venetia
Miller, Jean	613 Reed Avenue	Monessen
Padovani, Diana Carmen	R. D. 1	West Brownsville
Slaughter, Avis D.	51 Third Avenue	Scottdale
White, Noreen E.	863 Thompson Avenue	Donora

May, 1949

Alto, Lottie Burchesky	Box 494	California
Behanna, Miriam R.	300 Fallowfield Avenue	Charleroi
Benucci, Paul John	Dunlap Street	Republic
Bindas, Betty	Box 135	Grindstone
Catalano, Mary Elizabeth	York Street	Hiller
Cheselske, John C.	Box 167	Herminie
Davis, Thomas Edgar	R. D. 1	Masonstown
Dutch, Thomas Anthony	122 Church Street	Monongahela
Fecsen, Helen	Lock Four Branch	Charleroi
Garofalo, William	R. D. 1	Millsboro
Gaskey, Rena M.	R. D.	Coal Center
Glod, Charlotte Ann	473 Liberty	Donora
Harris, Mary Alice	889 Pennsylvania Avenue	California
Holland, Robert W.	R. D. 1, Box 200	Uniontown
Hunnell, Mary Jane	Box 122	Elrama
Miller, Kathleen L.	27 Wilmington Street	Uniontown

** High Honor
 * Honor
 † In Absentia

Petrilak, Amelia	901 Lincoln Avenue	Charleroi
Phillips, Mary Jane Jamison	844 N. Main Street	Washington
Seese, Matilda Jane	305 George Street	Scottsdale
Steeber, Clarence Albert		Republic
Young, Margaret E.	325 Railroad Street	Stockdale
Wensing, Cecelia Dorsey		New Salem

THE SECONDARY CURRICULUM

August, 1948

Arcadi, Joseph Richard	528 Chestnut Street	Monessen
Binkney, Nola Mae	Box 218	Roscoe
*†Edwards, John William, Jr.	324 Second Street	California
McKnight, Pauline Frances		Merrittstown
Moore, Mary Caroline	55 West Chestnut Street	Washington
Philp, Norma Lucille	R. D. 1	Fredericktown
Puglisi, Joseph Ciro	525 McKean Avenue	Donora
*Rutledge, James William, Jr.	Box 174	Fayette City
Sproul, Eunice Kathryn		Ohio
†Stofan, Lawrence Leonard	1212 Maple Avenue	Monessen
Yarnall, Tom Ross	600 Wood Street	California

January, 1949

Anthony, Nick Theofilos	22 Ralph Street	Canton, Ohio
Berty, Ernest A.	311 Park Avenue	Monongahela
Cava, Frank Paul	107 Woodland Avenue	Washington
Coatsworth, Don Arthur	616 Liberty Street	California
Durinz, Katherine Anne	423 South Main	Burgettstown
Hornak, Frank M.	659 Braddock Street	Monessen
Kerekes, Charles S.	200 Boaz Street	California
Shriver, Nancy Jane	207 Sadler Street	Point Marion
Watkins, Robert John	544 Second Street	California

May, 1949

Bateman, Elizabeth Jean	Third Street	Smithton
Bellis, John Robert	100 Front Street	West Irwin
Burkholder, Earl Kenneth		Mill Run
Clemens, Lloyd L.	R. D. 4	Washington
Devlin, Robert J.	Box 475	New Salem
Gearing, Margaret	R. D. 1	Monongahela
Glott, Patsy Richard	657 Wood Street	California
Griffin, Thomas A.	237 Wood Street	California
Haas, Jane L.	Box 595	Dawson
*Hough, Raymond E.	608 Highland	N. Charleroi
Jeffries, Rachel J.	Box 236	Brownsville
Jordan, Rose M.	218 Hitchman Street	Mount Pleasant
Lammy, Della Mae	R. D. 1	Charleroi
Laughery, Ruth May	311 Catherine Avenue	Brownsville
*Morgan, M. Patricia	201 Wood Street	Belle Vernon
Mullan, William Ernest	Box 37	Hibbs
Newsom, Robert B.	Box 31	Grindstone
Petrollo, Angeline Lucy	Box 128	Republic
Spiegel, Helene Isabelle	321 Woodland Avenue	Charleroi
Varner, Chauncey J., Jr.	474 Reed Avenue	Monessen

THE INDUSTRIAL CURRICULUM

August, 1948

Campbell, Vaughn Morris		Rimersburg
Chrise, Ira W.	Box 123, Second Street	Hiller
Dishong, Berlie Eldon	406 High Street	Ebensburg
Fallier, Carl Robert	11 Jacoby Street	Johnstown
Fresch, Benjamin Willard	1219 Holland Street	Erie
†Gallick, John M.	826 Orchard Street	California

* Honor
† In Absentia

Gladys, Theodore Jon.	808 First Avenue	Monessen
†Hardy, Harry William, II		Ingram High School
Kerns, Curtis William		Richeyville
Ksiazek, Joseph C.	1225 First Avenue	Conway
Leffler, William D.	416 Agatha Street	Pitcairn
McRoberts, Grant James	3133 Home Avenue	Pittsburgh 27
†Mester, Raymond Robert	514 West Fifth Avenue	Langeloth
Rivetti, Anthony Joseph	124 First Avenue	Aliquippa
Siegel, Raymond Carlson	Pine Street & Fairview Avenue	Irwin
Snow, James Stratton	115 Prospect Avenue	Charleroi
Stille, George W., Jr.	711 B LaFayette Drive	Clairston
Thomas, Milton Underwood	R. D. 1	Boswell
Wallach, Frank	2684 Geimer	Detroit, Mich.
Zajac, Alexander Stanley	33 Vernon Street	Uniontown

January, 1949

Bellock, Alex	373 Wood Avenue	Revloc
*Borland, William Henry	254 Seventh Street	California
Brown, William Richard	821 Sixth Street	Elizabeth
Caruso, Daniel Anthony	365 Duncan Avenue	Washington
†Caufman, Lynn Walter	2724 Washington Avenue	Erie
†Cullen, Robert C.	150 Siberian Avenue	Leechburg
Dobrenic, Joseph	1825 Pierce	Aliquippa
Egidi, Morgan	550 Summit Street	Monessen
Gill, Wyatt Frank	Box 736	Dawson
Glus, Joseph	1824 Meadow Avenue	McKeesport
Harris, Robert James	47 S. Harrison Avenue	Bellevue
Hawkins, Alexander Leroy	1022 Cross Street	California
Hawkins, Edward Boyd		Fredericktown
Kapp, Richard L.		Kossuth
Kuklish, John	Box 56	Herminie
Kuklish, Nick	Box 56	Herminie
Langsner, Milton	1210 Morningside Avenue	Pittsburgh
Le Mal, Mearl Louis	226 Center Avenue	McDonald
Lindsay, John H.		Cokeburg
MacKinlay, John T.	Box 318	Rimersburg
Markosky, Frank R.	R. D. 3	Irwin
†Martin, Ramon T.	203 Fourth Street	California
Miller, Lawrence C.	R. D. 6, Box 211	Greensburg
Miller, William F.	12 Johnson Avenue	Uniontown
Morgan, Frank Cornelius	1518 Fallowfield Avenue	Pittsburgh
Molton, Harold Thomas	201 Evans Street	Uniontown
Muhlman, Fred J.	745 Ewing Street	Washington
Nagle, Frank Eugene	224 Fairmont Street	Pittsburgh
Piazz, Camy	414 Oneida Street	Monessen
Poole, Eugene Francis	309 E. Schoonmaker Avenue	Monessen
Randolph, William E.	614 Indiana Street	Glassport
Revello, Charles Andrew		Somerset
†Rothschild, William	5810 Whitby Avenue	Philadelphia
Sikora, Edward John	136 Elizabeth Street	Washington
*Smarsh, Stephen	Farm Colony, State Hospital	Woodville
Stevens, William A.	401 Richland Street	Dravosburg
Tjiattas, George A.	2416 Saranic Street	Pittsburgh
Trautvetter, Harry L.	32 Waldorf Street	Pittsburgh
Tueche, Harry J., Jr.	424 McKee Avenue	Monessen
Turanin, John George	981 Donner Avenue	Monessen
Watters, Harry H.	R. F. D. 1	Amity
Zuke, Michael P.	Box 184	Herminie

May, 1949

Alsnauer, Raymond Muth	74 Greenbush Street	Pittsburgh
Anderson, Richard William	Box 475	Daisytown
Anderson, William Elder	3073 Texas Avenue	Dormont
*Beichner, Eugene J.	215 East Seventh	Oil City
Blaney, G. Wayne	R. D. 2	Lake Lynn
Bonari, Lawrence Phillip	1340 Nash Avenue	Monessen
Cole, Joseph R.	968 Cross	California
Cosgrove, Jerome Fertig	185 Roberta Drive	Homestead Park
Crisafulli, Frank	928 Washington	Easton

* Honor
† In Absentia

Dahood, Subray	211 Rostraver Street	Monessen
Dudek, Frank Albert	2902 Palmgreen	McKeesport
Farabaugh, Martin P.	Box 292	Colver
Fike, Robert Allison		Star Junction
Gaisbauer, Albert A.	Box 696	Grindstone
Ghinassi, Frank Fred	245 Linden Avenue	Monessen
Gosseaux, Joseph A.	Penn-Craft	East Millsboro
Green, John A.	Water Street	Sutersville
Griffith, Clinton W.	428 Second Street	Monongahela
Haggerty, Francis Leo	1602 Chelton Avenue	Pittsburgh 26
Hamilton, Matthew F.	1858 Seaton Street	Pittsburgh 26
Henderson, Robert James	934 Wellesley Avenue	Pittsburgh
Hustek, Ernest Stephen	Box 39, 127 Buffington	New Salem
Kovach, Andrew W.	Box 304	Grindstone
Kuchel, William J.	1255 McClure Avenue	East McKeesport
Lamping, Robert G.	1834 Overbeck Street	Pittsburgh
Mayers, John B.	500 Caldwell Avenue	Portage
Mouser, Robert J.	Box 623	Uledi
Muth, Elmer Gordon	209 Boggs Avenue	Pittsburgh
Pearce, Alfred John	318 Wall Avenue	Pitcairn
Robertson, Richard L.	309 Convent	Titusville
Scott, Harry Wilson	400 Fifth Street	Charleroi
Shears, Stanley D.	709 Wood Street	California
Signorino, Edward C.	R. D. 2	Perryopolis
Skvarna, Edward M.	347 Baker Avenue	Clairton
Solley, Paul M., Jr.	R. D. 1	Grampain
Wodnick, Frank R.	R. D. 2	Irwin
Yaksick, Thomas	558 Third Street	Clairton
Ziegler, Nyle Dean		Van

GRADUATING SENIORS — CLASS OF 1950

(The appearance of a name on this list is presumptive evidence of graduation. The diploma, delivered at the annual commencement, is the only official testimony to the possession of a degree.)

THE ELEMENTARY CURRICULUM

August, 1949

Beatty, Mary R.	515 Race Street	Connellsville
Carpenter, Lois	532 Monongahela Avenue	Glassport
Collins, Gladys Green		Finleyville
Cook, Gladys Hall	22 Crafton Avenue	Pittsburgh 5
Dumbauld, Mildred Kreger		Markleton
Ingram, Catherine	131 Sycamore Street	Pittsburgh 11
Johnson, Harriet Wright		Fredericktown
Kees, Grace LaRue	High Street	Boston
Lawson, Elizabeth Ann		Madison
Lewis, Ruth J.	Box 8	Upper Middletown
Love, George F.	614 Elm Street	Bridgeville
Martin, Jane W. Harris	364 May Street	Belle Vernon
McDonald, James Melvin	31 Pennsylvania Avenue	California
Moss, Edythe	160 McKean Avenue	Donora
Murray, Floyd McLean	Box 37	Jones Mills
Pierce, Margaret Taylor	211 Reed Avenue	Monessen
Ross, Genevieve Alice		Rices Landng
Williams, Gail Patton	865 Fifth Avenue	New Kensington

January, 1950

Bloom, Fred James	R. D. 1	Dunbar
Carson, Marjorie Ann	R. D. 1	Charleroi
House, Irma Lucille	R. D.	Centerville
Johnston, Betty Mae	509 Jackson Street	Monongahela
Kulikowski, Joseph John	R. D. 1	Coal Center
Lazaran, Violet	Box 472	Brownsville
Ross, Julia Laverne	66 West South Street	Uniontown
White, Loise Reichard	306 Front Street	Brownsville

May, 1950

Allinder, Irma	R. D. 1	Oakdale
Bickerton, Carol Louise	910 Seventh Street	West Elizabeth
Clifford, Marjorie Ann	194 Lincoln Street	Uniontown
Glisan, Genevieve Grace		Markleysburg
Gray, Dolores Elizabeth	Box 98	Dunlevy
Guesman, Beatrice Virginia	28 Valley View Lane	Newton Square, Pa.
Grove, Aloda Minerva	Route 88, Maple View	Charleroi
Keener, Emma Thelva	P. O. Box 283	Masontown
Kula, Joseph Frank		Fairchance
McClelland, Marianna	201 N. Main St.	Masontown, Pa.
McCune, James P.	Box 45	Hunker
Mook, Reed Nelson	Box 524	North Girard
Neal, Agnes Mary	R. D. 1	Ruffsdale
Oldham, Alvin J.	538 Main Street	Scalp Level
Overand, Berna Deane	2506 Jenny Lind Street	McKeesport
Pritts, John Robert		Champion, Pa.
Pritts, Mildred C.	Box 477	Hermie
Pyle, Ann Colvin	Overlook Terrace	Donora
Shepler, George P.		Connellsville, Pa.
Sims, Patricia Ruth	50 North Avenue	Washington
Turney, Bernice	718 Fayette Avenue	Belle Vernon
Warman, Lois Elizabeth	29 North Main Street	Masontown
Wilson, Robert Mills	306 Fourth Street	California
Wise, Retha S.	Main St.	Smithfield, Pa.
Wood, Virginia Bamford	1032 Thomas Street	Monongahela

THE SECONDARY CURRICULUM

August, 1949

DallaBetta, Lawrence Louis		Lowber
Davis, Louise	Main Street	Bentleyville
Gennaula, Joseph Anthony	728 Fallowfield Avenue	Charleroi
Gregg, William James	237 Pennsylvania Avenue	California
Gressley, Mary Ellen		Ruffsdale
Harris, George Frederick	614 1/2 Third Street	California
Helterbran, Raymond	200 Henry Street	Belle Vernon
Henderson, John Thomas	101 Thompson Avenue	Donora
Katchmark, Lloyd Myron	616 Arch Street	Belle Vernon
Keefer, Abe Russell	201 Orchard Avenue	Scottdale
Lewis, Alvin	46 Lyons Avenue	Fairchance
Morrison, William Albert	R. D. 2	Perryopolis
Pokol, Albert Ronald	117 Castner Avenue	Donora
Procko, Michael	135 Kellie Avenue	Belle Vernon
Ravey, William	3102 Grover Avenue	McKeesport
Ridge, Robert Girard	700-17th Avenue	Munhall
Rodebaugh, Robert	Box 115	Lowber
Saroglia, Frank Anthony	Box 317	Courtney
Semetkoski, Vilma Claire	418 Walnut Street	Donora
Strauss, Elizabeth Marie	216 Third Street	California
Triplet, Donald L.	R. D. 1	Lemont Furnace
Virgin, Paul Howard		Millsboro
Volkavich, Stanley R.	809 Fourth Street	California

January, 1950

Budris, Richard A.	P. O. 378	Ellsworth
Cherry, John T.	808 Railroad Street	West Brownsville
Donovan, Michael Joseph	88 W. Main Street	Uniontown
Francis, Susan Estella	R. D. 3 Morgantown Rd.	Uniontown, Pa.
Hartley, Laura Jean	455 West Main Street	Monongahela
Hepner, William David	2015 Broad Avenue	Altoona
Kennedy, Daniel Thomas	825 Spear Street	California
Logan, Joan Louise	414 Lincoln Avenue	Charleroi
McCormack, Thomas Edward	102 Vine Street	West Newton
Nemec, Peter Vincent	1107 McMahon Avenue	Monessen
Nesti, Robert	Fifth Street Extension	Charleroi
Petach, Basil P.	122 King Street	McKeesport
Phillips, Elizabeth Marie	R. D. 1, Box 273	Carmichaels
Say, Frank	Box 703	Fredericktown
Scales, Richard H.	Box 154	Sutersville
Schmidt, William Adam	800 Glenn Avenue, Port Vue	McKeesport
Tomko, Edward Matthew		West Leisenring
Wilson, John Richard	306 Fourth Street	California

May, 1950

Berwick, H. Orville	R. D. 1	Grindstone
Caruso, Francis Thomas	244 Union Street	California
Diederich, Fred W.	903 Water Street	Brownsville
Donovan, Anthony B.		Republic
Fontanelli, Eugene H.	344 E. Schoonmaker Avenue	Monessen
Graham, Kathryn Marie	Box 315	West Elizabeth
Guest, William F.	408 Good Street	Jeannette
Hahn, William Paul		Coalport
Hardy, William Wilbur	R. D. 1, Box 127	Connellsville
Hormell, Joseph Glen	911 Third Street	California
Jacobs, Joseph L. B. C.	1814 Coursin Street	McKeesport
James, Jack Rayburn	R. D. 2, Box 169	Connellsville
Jones, Audrey Roberta	504 Pine Street	Greensburg
Kinkead, Ralph Victor	628 Sidney Street	Brownsville
Kirlik, Michael O.	R. D. 1	North Irwin
Krotz, Robert Cornelius	40 Lincoln Avenue	Ruffsdale
McCune, Robert Charles	R. D. 1	Belle Vernon
McDonough, Daniel	214 Orchard Street	Vestaburg
Michaelson, Gloria Ann	Box 712	California
Mickalovich, Stanley F.	471 Ellsworth Street	Monessen
Mori, Armand P.	411 Fourth Street	Monongahela
Newmeyer, John J.	228 East Main Street	Newell
Owens, Fred C.	P. O. Box 41	Masonstown
Owens, Joseph James Jr.	403 Fairview	West Brownsville
Phillips, Edward	Box 166	Herminie
Pritts, Charles A.	Box 477	Republic
Savel, Thomas	Box 517, Park Street	Herminie
Scarcella, Anthony Alfred	Box 365	Cicero, Illinois
Scheuerle, William Andrew	2104 South 61st Court	Weirton, West Virginia
Shuma, Stephen	2958 West Street	Brownsville
Stevenson, Clarence Lee	121 High Street	Brownsville
Tarr, Robert Clifford	301 College Avenue	California

THE INDUSTRIAL CURRICULUM

August, 1949

Bartholomew, Matthew M.	417 Ninth Street	Windber
Cashdollar, Robert Murrel	210 Lookout Avenue	Charleroi
Ciccarelli, Paul Louis	1051 Schoonmaker Avenue	Monessen
Colteryahn, Robert Martin	111 South Eighteenth Street	Pittsburgh
Copeland, Thomas	8 Braddock Rd.	Mt. Pleasant
Couch, James Scott	1405 Maple Avenue	Turtle Creek
Davis, Edward G.	Box 149	Richeyville
DeFede, Louis N.	Box 141	Allison
Fradel, Joseph Emil	561 North Main Street	Greensburg
Freberg, Clyde Henry, Jr.		Findley Lake, New York
Garry, Michael Francis, Jr.	R. D. 1, Box 193	Finleyville
Germock, John, Jr.	R. D. 1	Ruffsdale
Gowetski, Ralph Edward	321 Arthur Street	Kittanning
Graziani, Larry Peter	Main Street	Republic
Hamilton, Ralph	51 Morris Street	Clymer
Hoffman, Eugene Edward	1401 Lincoln Way	McKeesport
Horstman, Edwin W.	1506 Fourth Street	Moundsville, W. Va.
Keefer, Abe Russell	201 Orchard Ave.	Scott Dale
LeViseur, Edward John, Jr.	630 N. Meadowcraft Avenue	Pittsburgh
Lewis, Ruth J.		Upper Middletown, Pa.
Ling, Hubert Dixon	Route 4	Somerses
Lubold, Nelson Rodman	127 E. Broad	Williamstown
McFeaters, Melvin J.	Box 153	Tire Hill
McKelvey, Russell Leroy	R. D. 2	Irwin
Moore, Robert	Box 67	Merrittstown
Naumann, Owen Robert	3450 Beechwood Boulevard	Pittsburgh
Palmer, Charles Clark	1509 Methyl Street	Pittsburgh
Phillips, Carl Harold	368 Van Nostrand Avenue	Jersey City, N. J.
Podvia, Wayne		West Newton
Potocsnak, Stephen Raymond	1006 Pleasant Street	Port Vue
Reckard, Robert Holmes	31 Division Street	Crafton
Seamon, Kenneth Earl	21 Knox Avenue	Monessen
Seaton, Harold L., Jr.	R. D. 1	New Salem
Suprie, Andrew James	333-335 Fifth Street	Monessen
Teslovich, Charles	R. D. 1	Brownsville
Timashenka, Paul	220 Oak Street	Springdale
Van Bremen, Edgar Wayne	40 Loch Lomond Avenue	Uniontown
Winkler, Eugene	1034 W. Warrington Avenue	Pittsburgh
Wright, John Arthur	Dawson Street	California
Ziegler, Robert		Van
Zimmerman, George Warren		Gray

January, 1950

Barr, Donald E.	520 1/4 South Ninth Street	Cambridge, Ohio
Berringer, Edward Moody	555 Springdale Drive	Pittsburgh
Bordas, Edward Dennis	P. O. Box 1394	Vanderbilt
Carlson, Clifford O.	R. D. 1	Monongahela
Cronauer, Francis Cullen	914 Caldwell Avenue	Portage
Cronauer, Harold Thomas	921 Gillespie Avenue	Portage
Davis, R. Harold	409 South Pittsburgh Street	Connellsville
Falbo, George Vincent	422 Clarendon Avenue	Monessen
Freeman, Howard Gail	Second Avenue	Albion
Grigutis, Albin Anthony	226 Pringle Street	Kingston
Gross, Norman James	Box 183, R. D. 1	Wexford
Hepler, Donald E.	206 Fifth Street	West Newton
Ivkovich, Mile	517 Dresden Avenue	Steubenville, Ohio
Kackenmeister, Carl Frederic	1298 Market Street	Williamsport
Lovell, Jack R.	P. O. Box 72	Knox
Maguschak, Andrew John	126 Garfield Avenue	Mingo Junction, Ohio
Malush, Rudolph Edward	412 East Schoonmaker Avenue	Monessen
Matthews, Orrie Gray	406 Haig Street	Ellwood City
Means, James Robert	Box 328	Vanderbilt
Niemela, Everett Arthur	Speers Hill, R. D. 1	Charleroi
Oreski, Thomas Joseph	Nexley Avenue	Wall
Pekar, Joseph George	P. O. Box 203	Donora
Pivrotto, Robert Vincent	3330 Eastmont Avenue	Pittsburgh
Reyburn, Robert Harvey	201 Tyler Avenue	Washington
Roscoe, Wilbert Thomas	1109 Zinkhan Street	McKees Rocks
Rotella, Dominic P.	111 Harvey Avenue	Mingo Junction, Ohio
Schutte, Bryson Martin	512 Second Street	California
Sebastian, John Phillip	616 Delaware Avenue	Glassport
Shope, Max Richard	R. D. 3, Box 185	Snow Shoe
Shutok, Walter M.	3719 Evergreen Road	Uniontown
Skirtich, Joseph Paul	126 Fourth Street	Pittsburgh
Skubiak, Paul		Port Matilda
Smith, Derbert D.	Church Street	Smithfield
Smith, Norman Richard	430 Reynolds Avenue	Kittanning
Soloski, Frank Edward	Sylvan Road, Brookside	Pittsburgh
Tanner, Donald Phillips	64 Sullivan Street	Wilkes-Barre
Traub, George B.	332 South Home Avenue	Avalon
Wadlow, William Francis	501 South Main Street	Zelenople
Wallis, Robert George	707 Junior High Street	New Castle
Watt, Ralph L.	R. D. 3	Mount Pleasant
Wissinger, Arthur Charles	125 Farragut Avenue	Vandergrift
Yount, Tim Buffington	206 First Street	Braddock
Zielinski, Victor S.		

May, 1950

Baker, Charles Edward	Box 481	California
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Burger, Francis Michael	1280 Second Street	Monessen
Burton, Albert George	875 Grant St.	Braddock
Dennis, Ralston Kennedy	Box 184	Allison
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Gennaula, Charles Joseph	624 Wood Street	California
Grotenthaler, Edward L.	619 Remaley Avenue	Springdale
Hess, Daniel Eugene	R. D. 1, Box 236	Brownsville
Hicks, Roger Hough	3 Steele Avenue	Hanover
Huggens, Sterling Dayle	R. D. 3	Pittsburgh
Irvin, Daniel Wilson	455 Jefferson Avenue, Bellevue	Portage
Kovach, Joseph William	809 Johnson Avenue	Pittsburgh
Kristy, Thomas Michael	1080 Blackadore Avenue	California
Liko, John	329 Ash Street	Butler
MacFee, Norman William	R. D. 5	Monessen
McLaren, William Jay	30 Knox Avenue	Clairton
Mislanovich, George	512 Farnsworth Avenue	Clymer
Ober, Clyde Eugene	1028 Beckford Street	New Castle
Pelini, William Albert	125 Wellington	Washington, Pa.
Scott, Floyd O.	928 Pittsburgh Street	Scottdale
Shaw, Rhesa Garfield Jr.	425 First Street	Monessen
Singleton, Ira James, Jr.	Box 453	West Brownsville
Stagi, William Richard	R. D. 1	Beaver Falls
Stanford, Wilbur S., Jr.	R. D. 1	Vandergrift
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Tognozzi, Louis J.	512 Conrad Avenue	Kingwood, West Virginia
Walls, William Dale	Box 96	Bedford
Williams, Anchor Lovelle	R. D. 2	Stoystown
Winters, John A.	R. D. 1	

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