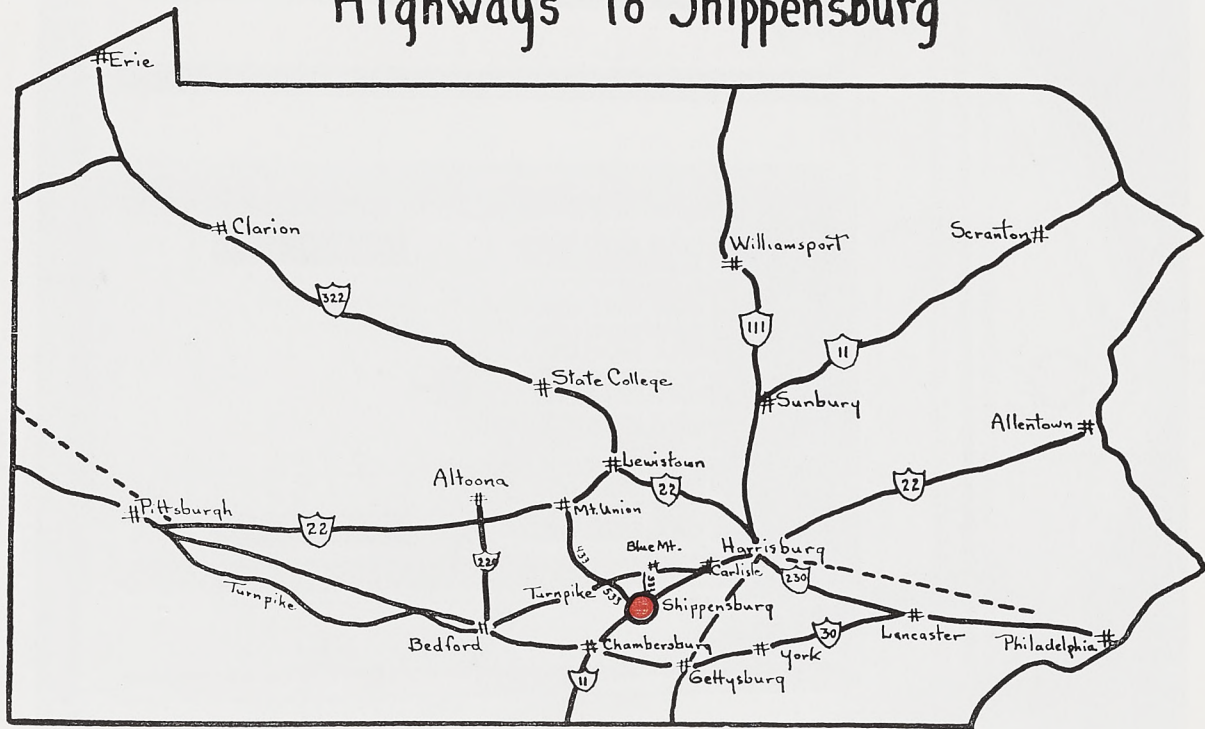


Highways to Shippensburg



The Teachers College Herald

VOLUME 58

MARCH, 1954

NUMBER 3

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1954 - 1955



THIS COLLEGE IS A MEMBER OF THE AMERICAN ASSOCIATION OF COLLEGES FOR TEACHER EDUCATION, THE MIDDLE STATES ASSOCIATION OF COLLEGES AND SECONDARY SCHOOLS, AND THE NATIONAL ASSOCIATION OF BUSINESS TEACHER-TRAINING INSTITUTIONS, AND MEETS THE STANDARDS ESTABLISHED BY THESE ASSOCIATIONS

THE STATE TEACHERS COLLEGE

SHIPPENSBURG, PENNSYLVANIA

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NATIONAL ASSOCIATION OF SERVICE TEACHER-TRAINING
INstitutions and meets the standards established by
these associations

THE STATE TEACHERS COLLEGE

SHIPPENSBURG, PENNSYLVANIA

COLLEGE CALENDAR

1954-1955

THE SUMMER SESSIONS

1. Pre-Session of Three Weeks

Session Begins	June 7
Session Ends	June 25

2. Regular Session of Six Weeks

Session Begins	June 28
Session Ends	August 6

3. Post-Session of Three Weeks

Session Begins	August 9
Session Ends	August 27

FIRST SEMESTER

Registration of Freshmen	September 7
Registration of Upperclassmen	September 8
Classes Begin at 8:00 a.m.	September 9
Thanksgiving Recess Begins at close of classes ...	November 23
Thanksgiving Recess Ends at 8:00 a.m.	November 29
Christmas Recess Begins at the close of classes	December 15
Christmas Recess Ends at 8:00 a.m.	January 3
First Semester Ends at Noon	January 20

SECOND SEMESTER

Registration	January 24
Classes Begin at 8:00 a.m.	January 25
Easter Recess Begins at close of classes	April 5
Easter Recess Ends at 8:00 a.m.	April 12
Alumni Day	May 21
Baccalaureate Services	May 22
Commencement	May 23

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COMMONWEALTH OF PENNSYLVANIA

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1954-1955

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 M.S., Pennsylvania State University

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 Assistant Director Student Teaching*
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 M.Ed., Ed.D., Pennsylvania State University

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 M.Ed., Pennsylvania State University

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A.M., Teachers College, Columbia University
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- THELMA E. SMALL
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B.S., State Teachers College, Shippensburg
A.M., Teachers College, Columbia University

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Ph.M., University of Wisconsin

ALMA MAE WINTON

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B.S., in Library Science, Columbia University

MARY E. YORK

English and Speech
B.S., A.M., Ohio University

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FAY BITTNER, M.Ed.	<i>Second Grade</i>
THELMA E. SMALL, A.M.	<i>Third Grade</i>
ADELE H. MITCHELL, M.Ed.	<i>Fourth Grade</i>
MARY ELIZABETH FOGELSANGER, M.Ed.	<i>Fifth Grade</i>
MYRA C. ESH, M.Ed.	<i>Sixth Grade</i>
CHESTER S. EASTEP, Ed.D.	<i>Principal</i>

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VIRGINIA GOODHART	<i>Secretary to the President</i>
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MARTHA B. SHULL	<i>Secretary to Dean of Instruction</i>
SARAH MILLER, B.S.	<i>Registrar</i>
VIRGINIA LONG, M.Ed.	<i>Dean of Women</i>
VINTON RAMBO, A.M.	<i>Dean of Men</i>
WILLIAM BEYERS, Ed.D.	<i>Director of Student Teaching</i>
PHYLLIS MALAMOS, B.S.	<i>Secretary, Director of Student Teaching</i>

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ELLEN MILLER, R.N.	<i>Resident Nurse</i>
HIRAM GILL	<i>Accountant</i>
ALICE M. NOLL	<i>Bookkeeper</i>
GERTIE FOGELSANGER	<i>Account Clerk</i>
MARIE Y. LICHTY	<i>Account Clerk</i>
EDNA MOUER	<i>Steno-Clerk</i>
ANNA COMMERER	<i>Clerk in Retail Store</i>
ATHA ZIMMERMAN	<i>Clerk in Retail Store</i>
R. BRUCE CLIPPINGER	<i>Receiving Clerk</i>

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 Raymond Hutchison, Walter Klenzing, Jerry Thomas, Elmer B.
 VanScyoc, Harvey Allen, Hiram D. Highlands, Clarence L.
 Chamberlin, Arthur Commerer, R. J. Hutchison, George Clough,
 Amos Devor, James Foltz, Blake Schaeffer, Earl Pugh, Edwin
 Eberly, Calvin R. Kirkpatrick, W. E. Love, John B. Tritt.
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- WILLIAM S. WEIBLEY *Watchman*
- SARA McCULLOCH *Matron, "Old Main"*
Assistants—Lula M. Plasterer, Veda P. Lindsay.
- MILDRED ALLEN *Matron, Men's Dormitory*
Assistants—Ruth Rebuck, Helen Martin, Margaret Weaver.
- DOROTHY PLASTERER *Matron, Horton Hall*
Assistants—Grace Killian, Lena Funston, Mary Millhouse, Ethel
 M. Frey.
- LOTTIE McCLELLAN *Dietitian*
Dining Room and Kitchen Staff—Florence Cramer, Amanda
 Kitzmiller Bessie Rice, Elizabeth Shearer, William Crusey, Mae
 Rebuck, Nora E. Sleichter, Rose P. Tarner, Jane Tarner, Verne
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 Louise Piper, Esther Bert, Violet N. Clough, Margaret E.
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- ANNA WALTERS *Cafeteria Manager*
Staff—Esther Reese, Bessie Naugle.

STATE TEACHERS COLLEGE AT SHIPPENSBURG**GENERAL INFORMATION****Shippensburg is an Accredited College**

Regional and national accrediting agencies have been established in the United States to assure the public that recognized standards are being met by colleges, and to guard parents of prospective students from exploitation at the hands of unworthy colleges. The acknowledged accrediting agency for this region of the country is the Middle States Association, and this college is fully accredited by it. The national accrediting agency for teachers colleges is the American Association of Colleges for Teacher Education which has a membership of 258 fully accredited teacher education institutions including the State Teachers College at Shippensburg. The College is also a member of the National Association of Business Teacher-Training Institutions.

Location

The College is located on the north western edge of Shippensburg, which is a town of approximately seven thousand people, situated in the beautiful Cumberland Valley on the Pennsylvania Railroad, forty miles southwest of Harrisburg on Route 11 of the Pennsylvania highway. Carlisle, the county seat of Cumberland County, lies twenty-two miles from Shippensburg toward Harrisburg, and Chambersburg, the county seat of Franklin County, eleven miles in the opposite direction. The College is less than ten miles south of the Blue Mountain terminal on the well-known Pennsylvania Turnpike. Gettysburg, the county seat of Adams County, with its famous battlefield, now a national shrine, is but thirty miles distance. Rich farm lands, broad meadows, and delightful woodlands bounded by mountains to the north and south, characterize this valley which is one of the richest agricultural sections of the country.

History

Originally known as the Cumberland Valley State Normal School, the institution was founded in 1871. The first class was graduated in 1874. For more than fifty years the school continued to serve as a State Normal School, graduating students prepared and legally qualified to teach in the public schools of the Commonwealth. After 1922, high school graduation was required for admission to the institution. In 1926 the State

Council of Education authorized four-year curriculums based upon high school graduation. In August, 1927, by authority of the General Assembly, this institution became a college with the right to grant degrees. Its name was changed to the State Teachers College at Shippensburg.

The principals and presidents of the college have been as follows: George P. Beard, 1872-75; I. N. Hays, 1875-78; B. S. Potter, 1879-82; S. B. Heiges, 1882-86; J. F. McCreary, 1886-89; G. M. D. Eckles, 1880-1907; S. A. Martin, 1907-1913; Ezra Lehman, 1913-31; Albert L. Rowland, 1932-45; Levi Gilbert, 1945-48; Harry L. Kriner, 1948—

Campus

The campus consists of approximately eighty acres with two fully equipped athletic fields, Eckles Field and Heiges Field; ten tennis courts; a quarter mile track with a two-twenty straight away; an archery range; and an open-air Shakespearean theatre. The entire campus has been carefully landscaped with beautiful shrubs, trees, flowers and convenient driveways. The thirteen all brick buildings on the campus are arranged in a curving line on the crest of a hill, sloping gently to the southeast and around a quadrangle in the center of the campus.

Buildings

OLD MAIN, located in the front center and highest part of the campus, is the oldest building first used in 1871. It has been modernized at various times. Its beautiful tower can be seen for miles in any direction. The first floor contains the offices of the Business Manager, the Cafeteria, the Bookstore, Post Office, rooms for commuting students, several supply rooms, Dining Hall and Kitchen. The second floor contains the offices of the President, Dean of Instruction, Director of Student Teaching and Placement, and Registrar, ten classrooms, a number of faculty offices and the "Old Main" auditorium. The third and fourth floors are used for the men's dormitory.

HORTON HALL, the dormitory for women, was built in 1894 and is located west of "Old Main." It is joined with "Old Main" by a bridge on the second floor level. In 1921 the building was wired for electricity, and a small addition was built in 1929. The renovations made in 1950 provide a lobby for each of the four floors and sixteen additional rooms for students on the first floor, and two indoor fire proof stairways which replace the old outside fire escapes.

ROWLAND HALL, built in 1939 is located on the east campus, and is used as an elementary training school for grades one to six, inclusive. The south wing provides rooms for a kindergarten and a nursery school. A beautiful auditorium is attached to the building for the use of the Training School. The office of the Principal, a medical and dental office, a library, and art room and service rooms are located in this building.

ALUMNI GYMNASIUM was built in 1937 and is located north of Horton Hall with its main entrance facing the quadrangle from the west and openings to Heiges Athletic Field on the ground floor. It has a large gymnasium floor, the necessary separate locker room for men and women, a swimming pool, a wrestling and boxing room, and the recreation room which also is used as a classroom for the physical education classes.

SHEARER HALL is the science building which was erected in 1937 on the east campus facing the library. Located on the ground floor are an advance biology laboratory, a classroom, and a greenhouse. A psychological laboratory, an elementary biology laboratory, a physical science laboratory, and a class room are located on the main floor while on the second floor are located a physics laboratory, an elementary chemistry laboratory, an advance chemistry laboratory with a balance room, and a classroom. Each laboratory has a supply room and an instructor's room.

The EZRA LEHMAN MEMORIAL LIBRARY was built in 1931 and is located on the northeast campus. This beautiful building is extremely well-planned for excellent library service. A very modern and complete visual education laboratory is located on the ground floor.

THE MEMORIAL AUDITORIUM was completed in 1951. This is a very modern building with a large stage; amphitheatre room for band, orchestra and glee club practice; music rooms; dramatic and speech rooms; and dramatic workshop. This building is located at the east end of the campus facing the quadrangle.

STEWART HALL, located east of "Old Main," was built in 1893 and was used for many years as a gymnasium. It was renovated in 1949 for a student activity center with game rooms, dance floor, kitchen and conference room.

GILBERT HALL was built in 1912 as an elementary training school and is located south west of Horton Hall. In 1946 it was reconditioned for the Business Education Department.

THE HEATING PLANT was built in 1952 replacing the old one built in 1898. This new beautiful modern plant uses hard coal and is equipped with smoke and automatic controls.

The INFIRMARY was built in 1906 and contains separate wards for men and women as well as two private rooms which are used for isolation cases and cases of serious illness. It is located north of "Old Main."

The UTILITY BUILDING was built in 1937 being located on the northern edge of the campus west of the tennis courts. This building contains the laundry, paint shop, carpenter shop, plumbing shop, machine shop, storage room and garages. An auxiliary heat plant is attached which furnishes hot water and steam for the summer needs, thus permitting the main heat plant to be closed.

The PRESIDENT'S RESIDENCE is a three story brick house located on the south west corner of the campus.

Library

The library is modern and exceptionally well equipped. It contains a collection of over 35,000 books arranged on convenient stacks. The magazine racks carry over 200 current publications. There is ample space and efficient up-to-date facilities for study, research, and recreation. A collection of over 11,000 pictures, a clipping file, a large pamphlet collection and an interesting group of textbooks and courses of study all serve to meet the needs of the college students. Students can readily find recreational reading in the field of biography, drama, fiction and current events. Trained librarians are on duty at all times to assist students in finding material and to make the library the real heart of the collegiate work.

Laboratory Schools

The college uses its own campus Laboratory School as well as the public schools at Shippensburg, Chamberburg, Carlisle, Waynesboro, Camp Hill, Steelton and Harrisburg for student teaching. These public school organizations give the college students an opportunity to secure practical experience in an elementary school, a junior high school, or a senior high school. While students are doing their practicum for one full semester,

they have available the various facilities of the college, and the course in Curriculum Materials is integrated with student teaching. A systematic plan has been developed for the Freshman, Sophomores, and Juniors to visit the public schools. After each visit a brief report is prepared by the student. These prepare the student for student teaching, and furnish the training teachers valuable guidance material. This practice is extremely important in implementing the work given in college classes.

Social Program

Shippensburg is a co-educational college. The enrollment of men has been half the total student body. Professional and social activities of many kinds are carried on throughout the year consisting of assemblies, dramatics, athletics, field days, intramural contests of various kinds, dances, lectures and entertainments. Conferences and trips to places of historic, scientific, and educational interest occur frequently under proper supervision.

Health Program and Insurance

Recognizing health as a basic objective of education, this college makes ample provision for the protection and development of the health of its students. In addition to the health examinations required for admission, provision is made for the annual administration of the Mantoux test or mass X-rays. A registered nurse is in full time attendance at the college infirmary where two wards, one for women and one for men, as well as private isolation rooms are maintained. The college physician is on campus every day and is constantly subject to call.

Arrangements have been made by the College whereby students may enroll in the Blue Cross Plan for hospital care if they are not already members of their parents' contracts. This voluntary, non-profit plan, sponsored by the hospitals, is a way to assure yourself, and your family if married, the best hospital care when you need it without worry, debt, or loss of savings.

Shippensburg offers two plans of student insurance which cover the student from the first day of school until the close of school in the spring.

1. Accident Reimbursement—Reimbursement will be made up to \$500 for each accident. It makes no difference whether the accident occurs at college, at home or while traveling or participating in sports. Expenses include X-

rays, hospital bills, nurses', physicians' and surgeons' fees, laboratory costs, medicines, and, in fact any medical expense incurred as a result of an accident.

2. Accident and Sickness Reimbursement—Reimbursement will be made for actual medical expenses, not to exceed \$500 for each illness.

The Student Insurance Plans supplement the College Health Program by protecting the student from the expense of the more costly illnesses and injuries requiring hospital care, surgical treatment, x-ray examinations or consultants' services. Rates and detailed information can be secured through the College Business Office.

Conduct

The college recognizes that the standard of conduct becoming a prospective teacher is so high that it excludes all persons whose habits and conduct are not worthy of the imitation of children who may be placed under their instruction. Since teachers must first be able to discipline themselves, it is the aim of the college to consistently cultivate right habits of self-discipline on the part of its students.

Religious Life

Shippensburg provides opportunities for wholesome and religious church life. At the beginning of each semester, the names of all students are forwarded to the clergymen of the churches designated by the students, and they are urged to continue their church duties and obligations. Many of the churches have activities to which the students are especially invited.

Among the churches represented in the Shippensburg area, the following are found: Catholic, Church of the Brethren, Church of God, Episcopal, Evangelical United Brethren, Lutheran, Methodist, Nazarene, Presbyterian, Reformed, and United Brethren.

The Purpose of the College

This college is a co-educational, professional school for the preparation of teachers. The completion of any one of its five curriculums leads to a Bachelor of Science degree in Education and to certification for teaching in the public schools of Pennsylvania. The college believes that our curriculums also afford a general and liberal preparation for complete living, and that



Girls Hockey



Undefeated Team 1952-53

such professional training is an effective preparation for parenthood and for constructive citizenship. We believe, further, that the teaching profession provides a most significant social service, as upon the efficiency of the public school and upon the intelligence and devotion of its teachers depend in large measure the hope and destiny of the nation.

We believe that our students can reach a high level of self-realization and professional efficiency through self-discipline, intellectual achievement, and social, moral, and spiritual growth. We also believe that the nature of the educational process is growth and guided development of the individual. Believing in these things, therefore, we are striving to develop the individual student to the greatest possible extent within his capacities, so that he can live successfully, demonstrate personal integrity, and make his contribution to society. We also strive to use the democratic process in the administration of the college and in the relations among administrators, faculty, and students, as its use is considered essential to the student's daily thinking and living.

To that end, the administration and the faculty of this college are working together to demonstrate these tenets through the following objectives:

1. To maintain a cooperative faculty continuously growing in professional interest and ability.
2. To recruit and admit, in so far as possible, the more desirable graduates from approved high schools.
3. To evaluate the curriculums continuously in view of adaptation to specific current needs.
4. To foster sound learning, broad cultural background and ethical professional knowledge, attitudes, and techniques.
5. To provide a program of curricular experiences through which the student will develop academic, social and personal growth.
6. To maintain an effective cooperative organization for the fluid articulation between college classes and practices within the training schools, so that students may clearly recognize the application of professional knowledge.
7. To give the students practical experience in the democratic processes of group planning in executing activities of common interest.

8. To encourage students to recognize the value of worthy family relationships and of the services to be rendered by teachers in a community.
9. To provide opportunities for the student to acquire both the knowledge and the appreciation of the **WORK OF THE TEACHER.**

The college aims to attain its objectives through the processes outlined in a set of policies adopted by the faculty. Committees have the responsibility of making these policies meaningful or revise them in keeping with the needs of the college.

Summer Session

In the summer, two three-week and one six-week sessions are conducted to meet the various needs of different groups of students:

1. Teachers who wish to increase the scope of their teaching certificate or complete work for a degree.
2. Students who find it advantageous to continue their education throughout the year, thus graduating at an earlier date.
3. Students who desire to make up certain deficiencies.

During these sessions a wide variety of courses are offered in business, elementary, secondary, and nursing education. A special descriptive bulletin will be sent upon request.

College Living Accommodations

Students at Shippensburg State Teachers College live in dormitories, in their own homes, or in approved residences. The dormitory rooms have new single beds furnished with new mattresses, pillows, sheets, pillow slips, and one blanket. Students should furnish a study lamp, extra blankets, towels, wash cloths, and soap. Many students provide window curtains, dresser scarf, bed spread, and small throw rugs. Radios are permitted if operated with due consideration for others. Other electric appliances are not permitted in the rooms.

Laundry Facilities

Limited laundry service is provided to boarding students for personal laundry only. Laundry numbers will be assigned at the college laundry and are provided at a very nominal charge. Laundry bags may be purchased at the Retail Store. Special facilities are provided in pressing rooms for students who wish to do extra washing and pressing.

Wearing Apparel

Students do not need expensive or elaborate wardrobes but should be governed in their choice by practicality and simplicity.

For women the following is suggested: Several changes of informal sports clothing for class and campus wear; several blouses and skirts; a dress appropriate for Sunday wear; a long dress for social functions; a pair of sturdy shoes with low heels; one pair of dress shoes, overshoes, coat sweater or sports jacket, soft soled bedroom slippers, housecoat, swimming suit, and gym shoes.

For men the following is suggested: Two suits, one for everyday wear and the other for dress; at least six shirts; a top coat; a rain coat of some type; slacks, sweaters, and jackets; a bathrobe; one pair of dress shoes and one pair of sturdy school shoes; bedroom slippers; and a pair of gym shoes.

Social Rooms

Lounges are provided on each floor of Horton Hall and on the third floor of the men's dormitory for Boarding students. A lounge is provided for day women in the west end of the Main Building first floor, and the east end for day men. Stewart Hall, the recreation center, is open daily and students should see the Handbook for recreational facilities available there.

Post Office

The post office is on the first floor of Old Main. Combination boxes are assigned to each boarding student upon arrival at college. Mail is delivered and collected three times daily.

Telephone Service

Coin booths are available in both dormitories and on the first floor of the Main Building. Students are to use these phones in placing and receiving calls. The Men's Dormitory phone number is 9444-W and that in the Women's Dormitory 9443.

Emergency calls may be placed through the Registrar between 8 a.m. and 4 p.m. and through the Dean of Men or Dean of Women after those hours.

Keys

Each student purchases a room key or locker lock for \$1.00. This is refunded when the key or lock is returned. Possession of keys for other college locks is sufficient evidence for disciplinary action.

Notice of Withdrawal

Students leaving the college must notify the President of their withdrawal. Regular charges will be made until such notice is received.

STUDENT ACTIVITIES

GOVERNMENT

The Student Cooperative Association

This body determines the amount of the activity fee and through its constitution delegates to the President's Council the determination of the activities' budget and its administration. By the approval of the Board of Trustees, the President's Council becomes the executive body of the Student Cooperative Association.

The President's Council

This body is composed of twenty-one student members and four advisory faculty members, all of whom hold membership in the council ex-officio, by reason of their leadership of specific activities of the college. The President of the college is the President of the Council. The Council administers the student activities of the college and is allocated its share of the money available for this purpose. The Council elects a student vice president, a secretary and a treasurer. Checks against the activity fund must be signed by the President of the college and the Treasurer of the Council.

This body controls and directs the student activities of the college under the authority of the Student Cooperative Association. The Council is responsible for the operation of the cafeteria and of the retail store, both under the sponsorship of the business manager. The profits return to the student activity fund. The Cafeteria serves primarily the day students of the college although all students and faculty are free to avail themselves of its services. The retail store handles the purchasing of all textbooks, college stationery, jewelry, individual athletic equipment, and other items required by the several courses of study and extra-curricular activities of the college.

Student Government Organizations

Five student government organizations exist at this college: one for day student women, one for boarding student women, one for day student men, one for boarding student men, and one for Stewart Hall, the student activity center. Each organization has its officers and is responsible to the Dean of Men or Dean of Women respectively and to the President's Council for the social life of the college, including behavior problems which arise from time to time.

MUSIC

The Mixed Chorus is the largest choral group on the campus. The purpose of this group is the enjoyment of participating in singing with others, becoming acquainted with the basic rudiments of choral techniques and program building. College and community services are emphasized. To become a member of this organization a student shall have sight reading ability and a pleasant quality of voice.

Smaller groups chosen on the basis of sight reading ability and voice blending include the Choraliers, a group of twenty-five mixed voices; the Girl's Trio; the Girl's Quartette; and the Collegiate Four, a Male Quartette.

When a member of any one of the organizations graduates a replacement is chosen only after voice, sight reading skill and tonal blending ability have been tested. These smaller groups have filled college and community engagements; and they participate in the two annual choral concerts, one during the Christmas season, and the other as a joint band and choral concert in the spring.

College Band

This group plays for all the home football games and at least two away from the campus. The band also drills, forming letters of all the visiting colleges. During the first semester this group is primarily a marching band, but during the second semester it is a concert band, giving at least one concert at the college. The band also plays for numerous occasions during the college year. Admission is by examination in the techniques of the instrument and the ability to read music reasonably well. Bring your instrument to college and apply for admission if interested. The college owns many instruments which may be used by deserving students.

College Orchestra

This club is open to all students who play an instrument. Admission is by examination in the proper techniques of the instrument and the ability to read music. The group plays for assembly exercises, many college functions, and usually gives one complete concert. Students are urged to bring their instruments and apply to the director of music for admission to this group. Certain orchestral instruments owned by the college may be used by students.

ATHLETICS

Athletic activities are encouraged for recreational purposes. Ample provision is made for the participation of the entire student body in some form of athletics whether intercollegiate or intramural.

The intra-mural program is closely correlated with the regular physical education program required of each student. The activities include hockey, soccer, swimming, archery, basketball, hiking, volley ball, baseball, tennis, touch football, golf, horseshoes, shuffleboard, softball, table tennis, quoits and water polo.

Intercollegiate competition for men is provided in football, basketball, baseball and track. The rules and regulations governing student participation in athletic competition among Pennsylvania State Teachers Colleges as approved by the Board of Presidents and by the Superintendent of Public Instruction, regulate all varsity athletics. Intercollegiate competition for women is provided in hockey, basketball, and archery.

Women's Athletic Association

Membership in this organization is earned by a point system in major and minor sports, the purpose being to encourage participation, cooperation, good sportsmanship, and to offer opportunities in leadership training to the women of this college. W.A.A. promotes and participates in Sports Days with neighboring colleges, holds a formal dance, provides special programs in swimming, and dancing for May Day, Homecoming, Alumni Day, and for other events.

The Athletic Council

The Athletic Council consists of the athletic adviser, the director of athletics for women, the director of athletics for men, the business manager, and the officers of the two athletic associations. The President of the college is the chairman of the council. The council determines the athletic policy of the college, directs the budgeting of finances for the support of athletics, approves proposed intercollegiate contracts and schedules, determines the awarding of insignia, determines the eligibility of students for athletic competitions, administers the program of intra-mural sport, promotes interest in and attendance at athletic contests by students and the community, and exercises such other powers and duties as may be necessary.

DRAMATICS

The Masquers

The Masquers is an organization designed for students interested in dramatics. Members are given opportunity not only to take acting parts, but also to direct plays and to experiment with lighting, make-up and staging. In 1953-54 the Masquers presented four major productions as well as many one-act plays at the regular weekly meetings of the organization. Membership is limited and determined by competitive try outs. The new quarters in the Memorial Auditorium are conducive to more high quality work.

STUDENT PUBLICATIONS

Campus Reflector

The college magazine is published bi-monthly during the college year. Its purpose is multifold: it aims to provide experience for students whose interest lies in the field of journalism; it stimulates student morale; it records student activities; it affords prospective teachers experience with the problems confronting with school publications; and it serves as the medium for stimulating creative writing, which is then published in the Reflector. The magazine is a member of the Columbia Scholastic Press Association.

The Cumberland

The Cumberland is the annual yearbook edited and published by the senior class and paid for by the Student Cooperative Association. Every registered full-time student receives a copy of this year-book which represents in word and picture the spirit of the college. Its form varies from year to year.

The Handbook

The Handbook is published each year by a student committee. This small booklet is filled with descriptive material concerning clubs, student organizations and college policies. It is a valuable guide for students, especially freshmen and transfer students.

CLUBS

Archery Club

This is a new organization sponsored by the W.A.A. but includes both men and women. Membership is limited to thirty, and prospects try out before a group of judges. Entrance requirements were set up by charter members. Shippensburg is a member of the National Archery Association. Club members conduct meets with neighboring colleges, participate in telegraphic meets, and so stimulate better performance in this sport which is so rapidly gaining popularity all over the country.

Art Association

This extra-curricular organization of the college meets weekly for one and a half hours. It has for its objectives growth of art appreciation and the development of talent beyond that which the classroom offers. The club is maintained for those students who are interested in some phase of art activity.

The Business Education Club

The Business Education Club is an organization for all students in the Business Education Department. Its objectives are to encourage scholarship, to make contact with leaders in the field of commerce, and to sponsor social activities. Students in business education visit large retail establishments, high schools, various types of offices, museums, and the like.

Regular programs featuring speakers, films and demonstrations are sponsored. The social program consists of teas, parties, theater parties, and picnics.

Elementary Education Club

The Elementary Education Club is open to students who are preparing to teach in the elementary field. This group visits public school systems throughout the state and does much to promote the cause of elementary education.

This club meets each month having interesting speakers, good films and social programs.

English Club

Membership in this club is restricted to upperclassmen interested in the field of English. Meetings are held twice a month, and the programs are concerned with literary and allied subjects.

French Club

Membership in this club is open to any student interested in French and who has sufficient background to participate in the various activities. Meetings are held twice a month. The program is usually conducted in French and presents a variety of topics concerning French life and culture. Songs, games, skits, playlets, and short talks are given.

Spanish Club

Membership in this club is open to any student interested in Spanish and with sufficient background to participate in the programs. Meetings are held twice a month. The program is usually conducted in Spanish and deals with the life and customs of the Spaniards and the Spanish-Americans. Songs, games, skits, short talks, and playlets make up the programs.

Future Teachers of America

The Future Teachers of America is an organization that gives the student an opportunity for active participation in both state and national associations with which they will be associated during their professional careers. Monthly professional and social meetings provide an opportunity to develop abilities in professional and civic leadership. Membership is open to all students.

The Debating Association

This club consists of students interested in debating. All students are eligible to membership. During the first semester one hour each week is devoted to debate practice, study of national intercollegiate debate question, and preparation for debates with nearby colleges in December. In the second semester the teams engage in about 25 intercollegiate debates, some at home and others on trips to other colleges. These trips include the state tournament and the state debaters convention.

The Intercollegiate Conference on Government

This group consists of students who participate in three day sessions of the Intercollegiate Conference in Harrisburg late in April. Students from about thirty Pennsylvania colleges and universities participate in the work of model government-body, such as a legislature, constitutional convention, or a national party convention, thus learning by doing. During the second semester the student group meets one hour weekly in preparation for active part in the Harrisburg conference.

International Relations Club

This club is part of an international organization for the study and discussion of world affairs and is organized under the auspices of the Carnegie Endowment for International Peace. Members attend an Eastern Regional conference in the fall and a model General Assembly of the United Nations held each spring. A state organization to which delegates are sent has recently been organized. All students interested in current international problems are eligible to membership.

Mathematics Club

The Mathematics Club aims to promote a greater interest in mathematics among its members and in the college. The work of the club includes a study of important phases of the history of mathematics, the social significance of the subjects, mathematical recreations, and other activities of a mathematical nature. The club is open to all students interested in mathematics.

Kappa Delta Pi

The Epsilon Epsilon Chapter of Kappa Delta Pi was installed on May 25, 1941. Kappa Dela Pi is a national honor society in education and was formed to encourage high intellectual standards and to recognize outstanding contributions to education. To be eligible for membership, high scholarship and membership in the junior class must have been achieved.

Phi Sigma Pi

This is a national honor fraternity introduced at Shippensburg in 1931. Membership may be gained by men students who have been in residence a year or more and who are able to meet the scholastic, social, and citizenship requirements.

Phi Sigma Chi

This is a club made up of men who wish to be of outstanding service to the college. The club limits its membership to thirty-six. In order to become a member of this organization it is necessary to maintain a scholastic average of C and to serve the college faithfully and well in at least one extra curricular activity each semester. Club projects are determined by the officers and two faculty advisers.

Pi Omega Pi

The Beta Lambda Chapter of Pi Omega Pi, a national honor scholastic fraternity in Business Education, was installed on March 18, 1944. Its purposes are to encourage, promote, extend, and create interest in high scholarship in the field of commerce; to aid civil betterment; to encourage and foster high ethical standards in business and professional life; and to teach the ideal of service as the basis of all worthy enterprise. Of these, scholarship is considered of primary importance.

Eligibility for membership includes an expressed intention to teach in the field of commerce, the completion of fifteen semester hours in commerce and education, and a superior scholastic rating.

The Round Table

Membership is open to any student interested in discussing books and in gaining practical library experience. Each member works one hour a week in the library. Meetings are held once a month for social purposes and for book reviews.

Science Club

The Science Club aims to promote interest in science among the students of the college. The relationship of social progress to modern science is stressed through bringing to the campus prominent scientists and by use of films in the field of science and industry. The club is open to all students in the College.

Aquatic Club

This club is for men and women students who wish advance instruction in swimming. The club sponsors sport days, demonstrations, and recreational meets. Courses in senior life-saving are given and certificates awarded.

Varsity Club

Men who have won a varsity award in intercollegiate sports at Shippensburg are eligible for membership in this organization. The purpose of the club is to promote amateur intercollegiate athletics on this campus, and create public interest in the athletic program of this college.

The club provides campus services during the college year including the publishing of programs and providing a refreshment stand at football games.

FEES, DEPOSITS, REPAYMENTS

The account for each student is payable in advance on the dates listed in this catalogue. The late registration fee will apply against each student who registers after the regular registration date. To be admitted to classes, the dining hall, or any college activity, the student shall present a matriculation card which can be secured only at the time accounts are paid. Students shall not be admitted to classes, activities, or the dining hall when payments on account have not been made in advance.

The schedule of fees is subject to change as authorized by the Board of Trustees and approved by the Superintendent of Public Instruction.

A. FEES

I. Student Activity Fee:

A fee to be determined by each institution will be collected from all students and administered under regulations approved by the Board of Trustees through a cooperative organization. This fee will cover the cost of student activities in athletics, lectures, entertainments, student publication, et cetera provided that students taking extension courses or regular session students taking less than seven hours (semester hours) may secure the benefits of the Activities Program by the payment of the Student Activity Fee.

The Activity Fee of \$40 per year is payable in advance, or \$10 per half semester, and is not refundable. Make check for this fee payable to The State Teachers College. Checks to pay other accounts mentioned hereafter shall be made payable to the Commonwealth of Pennsylvania.

II. Contingent Fee:

1. Regular Session.

- (a) A contingent fee for each student in each curriculum is charged as follows per semester:

	Regular	Special	Total
Elementary Curriculum	\$45.00	(none)	\$45.00
Secondary Curriculum	45.00	(none)	45.00
Business Education	45.00	\$12.00	57.00

This fee covers registration and keeping of records of students, library, student welfare, health service (other than extra nurse and quarantine) and laboratory facilities.

- (b) Students taking seven or fewer semester hours shall pay at the rate of \$7.50 per semester hour. Students taking more than seven semester hours shall pay the regular contingent fees.
- (c) Students taking extension courses shall pay at the rate of \$7.50 per semester hour, provided that the regular fees for special curriculums shall be prorated on the basis of an eighteen semester hour load.
- (d) The president of the college may, at his discretion, authorize payment not less than one month in advance by worthy students.

2. Summer Session.

- (a) \$7.50 per semester hour.
A minimum contingent fee of \$22.50 will be charged.
- (b) Contingent Fees—Special Curriculums.
In addition to the above fees, students in the special curriculums will be required to pay a fee to cover the cost of materials, supplies, equipment, and special services used in the laboratories, shops or studios of the special curriculums.

	Six Weeks	Three Weeks
Business Education	\$4.00	\$2.00

- (c) Students enrolled for periods of instruction differing from the schedule shall pay fees in addition on a pro rata basis of the schedule of fees provided for the regular summer session.

III. Housing Fee:

1. Housing rate for students shall be \$108.00 per one-half semester and \$72.00 for the six weeks summer session. This includes room, meals and limited laundry.
 - (a) No reduction in the rate is to be made for laundry done at home nor for absence of students who go home for a few days at a time.
 - (b) A student may at the discretion of the president of the college occupy a double room alone by paying an additional \$36.00 a semester or \$12.00 for the summer session.
 - (c) In meeting the requirements in those colleges where students rooming off-campus, board in the college

dining room, the housing rates shall be divided for those purposes as follows: \$3.00 for room and laundry (room \$2.00 and laundry \$1.00) and \$9.00 for board.

- (d) A boarding student may not change to a day student basis without permission of the President of the College and then only at the end of a half semester or the close of a summer session.
2. Housing rates for employes other than those included in the State Classification Schedule (faculty, clerks, etc.) are \$13.00 per week.
3. The rate for transient meals shall be: Breakfast \$.50; Lunch \$.75; Dinner \$1.00; room per night \$.50.
Students having guests overnight who must be provided with dormitory accommodations must introduce them to the Dean of Women in the case of women, Dean of Men in the case of men, and arrange for the payment of the regular room charge of \$.50 per night.
4. The president of the college may, at his discretion, authorize payment for not less than one month in advance by worthy students.
5. A boarding student in attendance as a trainee of the U. S. Veterans Administration or an Army or Navy program has the privilege of paying housing fees at the rate of \$54.00 per month, September through April, both months inclusive. Such monthly payments to be made not later than the tenth of the month in which they are due. Regular and Summer Session housing fees of a trainee shall be maintained on an advanced payment basis. This rate is subject to change by action of the Board of Trustees.

IV. Damage Fee:

Students are responsible for damage, breakage, loss or delayed return of college property.

V. Infirmary Fee:

After three days in the college infirmary, the college charges an additional \$1.00 for each day.

Day students, who may be admitted to the infirmary, pay board at the rate of \$2.00 a day. This charge includes the regular nurse and regular medical service, but does not include special nurse or special medical service.

VI. Tuition Fee:

Students whose residence is out of the State are charged a fee of \$7.50 per semester hour for all work carried. (Out-of-State students do not pay the contingent fee.)

VII. Degree Fee:

A fee of \$5.00 is paid by each candidate to cover the cost of degree diploma.

VIII. Record Transcript Fee:

One dollar (\$1.00) is charged for the second and each subsequent transcript of record. This fee is waived when transcripts are to be used in connection with induction, enlistment, or advancement with armed forces.

IX Late Registration Fee:

A fee of \$1.00 per day, not exceeding a total of \$5.00 is charged for late registration. The same regulations apply to approved inter-semester payments.

X. Delinquent Accounts

No student is enrolled, graduated, or receives a transcript of his record until all previous charges have been paid.

XI. Out-of-State Student Fee:

Students whose legal residence is out of the State of Pennsylvania shall be charged at the rate of \$7.50 per semester hour. (Subject to change.)

XII. Private Instruction Fees:

1. Rental of piano for practice, one period per day, \$6.00 per semester. Rental of band or orchestra instrument, \$6.00 per semester. (For Summer Session the charge is one-third of above rates.)
2. The charge for private lessons in music in the State Teachers College not maintaining the special music curriculum shall be fixed as follows: The Board of Trustees of a State Teachers College not offering the special curriculum in music, may, subject to the approval of the Superintendent of Public Instruction, enter into contract with individuals to give private

lessons in music in order to afford an opportunity for students to continue their musical education. Such agreement shall provide reasonable reimbursement to the institution for any service or overhead supplied by the institution.

B. DEPOSITS

I. Advance Registration Deposit:

A deposit of \$10.00 shall be made by all students when they request registration. This is a guarantee of the intention of the student to enter college for the term or semester designated. It is deposited with the Revenue Department to the credit of the student's contingent fee. If, however, the student notifies the college at least three weeks before the opening of college that he is unable to enter, or if the student is rejected by the college, repayment of this deposit will be made on application from the student through the college authorities

Checks for this amount must be drawn to the Commonwealth of Pennsylvania.

C. NO OTHER FEES OR DEPOSITS PERMITTED

No fees or deposits, other than as specified above, shall be charged by a State Teachers College.

D. REPAYMENT

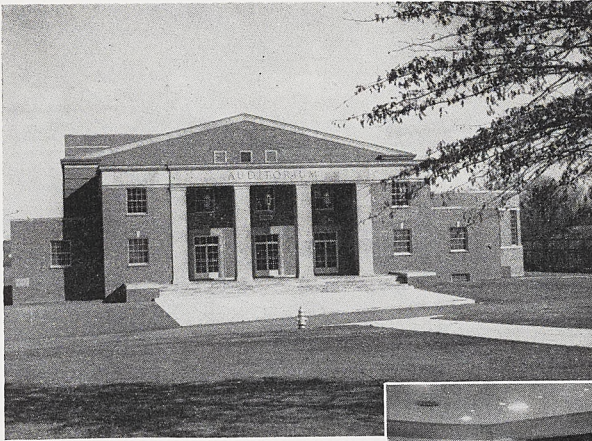
Students, who voluntarily withdraw from the college, should notify the dean of instruction of their intention to discontinue their studies.

I. Repayments are not made:

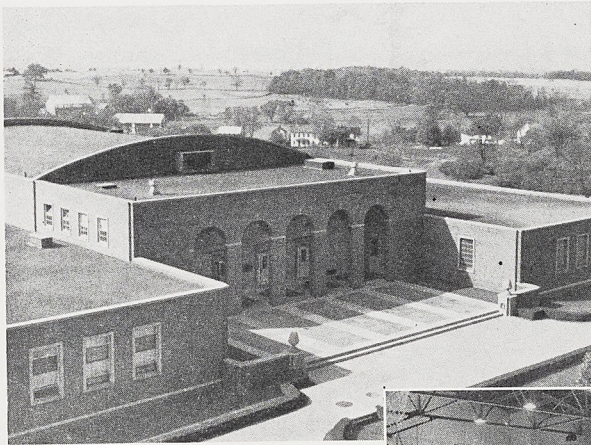
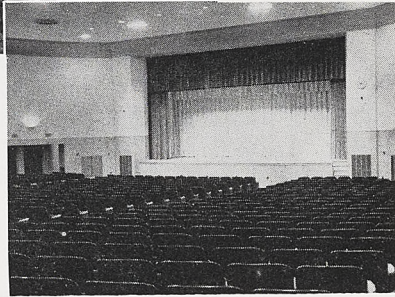
1. To students who are temporarily suspended, indefinitely suspended, dismissed, or who voluntarily withdraw from college.
2. For any part of the advanced registration deposit for any cause whatsoever except where students can give notice of intention to withdraw at least three weeks before the college opens or when the student is rejected by the college.

II.

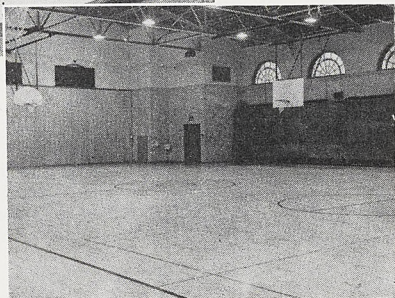
A repayment may be made for personal illness, the same being certified to by an attending physician, or for such other reasons as may be approved by the Board of Trustess for the



Memorial Auditorium



Alumni Gymnasium



amount of the housing and contingent fees paid by the student for the part of the semester which the student does not spend in college.

III.

The advanced registration deposit may be returned to students provided they notify the college not less than three weeks before the opening of the semester or term of their intention not to attend, or provided the student is rejected by the college.

SUMMARY OF COSTS

	Boarding Student		Day Student	
	Half Sem.	Year	Half Sem.	Year
*Contingent Fee	\$ 22.50	\$ 90.00	\$ 22.50	\$ 90.00
Activity Fee	10.00	40.00	10.00	40.00
Board, Room, Laundry	108.00	432.00		
Total	\$140.50	\$562.00	\$ 32.50	\$130.00
Business Education (Extra)	\$6.00	\$24.00	\$6.00	\$24.00

In addition to this sum the average student requires for books, gymnasium costume, supplies, etc., not less than \$50.00 a year.

Day Students

Day students—those living at home—do not pay the housing fee. The annual cost for such students is \$130.00. No student (who does not live at home) is allowed to register as a day student without permission of the President of the College.

TIMES OF PAYMENT FOR ACADEMIC YEAR 1954-1955

Sept. 7—Payment for first half of first semester.

Nov. 8—Payment for second half of first semester.

Jan. 24—Payment for first half of second semester.

Mar. 21—Payment for second half of second semester.

Summer Session fees payable at the opening of each session.

Payment by Check

If payment is made by check make it payable to "State Teachers College" for the Activity Fee. All other fees when paid by check should be payable to "Commonwealth of Pennsylvania."

*Non-residents of Pennsylvania will pay \$7.50 per semester hour instead of the above contingent fee. The above costs are for the academic year of nine months and are payable quarterly. Students attending the Summer Sessions pay \$7.50 per semester hour for courses pursued and \$12.00 per week for board, room and laundry.

AWARDS AND SCHOLARSHIPS

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.

Scholarship Prizes

The class of 1908 offers a yearly prize of ten dollars to the student having the highest average at graduation. This prize was awarded on Commencement Day, 1953, to Catherine McDonnell of Sunbury, Pennsylvania.

Public Speaking Prize

The class of 1916 offers a yearly prize of five dollars for excellence in public speaking. The prize for 1953 was awarded to Lee Greenawalt, Waynesboro, Pennsylvania.

George L. Brown Scholarships

By the will of the late Dr. George L. Brown, an alumnus of this institution, the sum of \$15,000 was placed in trust, the interest of which is available for scholarships. This provides each year several \$100 scholarships to deserving young men and women. Preference shall be given to residents of Middle Paxton Township and Susquehanna Township, Dauphin County. Persons interested in and qualified for these scholarships should apply to the President of the College.

Harriet Wylie Stewart Scholarships

By the will of the late Harriet Wylie Stewart, a distinguished member of the faculty for many years, the sum of \$10,000 was placed in trust, the interest of which is available for scholarships to the amount of \$100 per year, preference being given to residents of the Middle Spring area of Southampton Township, Franklin County, and Southampton Township, Cumberland County. Persons interested in these scholarships should apply to the President of the College.

Junior Civic Club Scholarship

The Junior Civic Club of Shippensburg has established a scholarship fund which provides sufficient money to pay the

college fees for one student. The Club selects the student and application should be made directly to the President of the Club. Each new award is made when the scholarship student in college graduates, voluntarily withdraws, or does not maintain satisfactory grades.

College Club Scholarship

The College Club of Shippensburg provides several \$50 scholarships to graduates of the Shippensburg High School who are definitely interested in teaching. Each high school graduate selected for this scholarship receives \$50 a year toward college expenses until graduation, withdrawal, or failure to maintain better than an average college record. Students interested in this scholarship should consult the high school principal.

Work Opportunities

At the College there are opportunities for part-time employment. These part-time jobs are limited mainly to upper-classmen who are definitely in need of financial aid, who have demonstrated their ability to do satisfactory academic work, and have proven themselves to be worthy college citizens. Those positions are confined to work in the kitchen, dining rooms, library, offices, and in janitorial duties. Application for such employment should be made to the President of the College on regular forms provided.

There are occasional work opportunities for part-time employment in the community. Students who have had experience in stores, garages, and other types of work can, at time, find odd jobs to do in and around Shippensburg. These jobs are usually for men and should be obtained through the Dean of Men.

There is a reasonable amount of work opportunities in private homes where students can receive payment by the hour or in terms of board or room. Students may make these contacts through friends, alumni, business manager, or the Dean of Women prior to the beginning of each semester. However, students and their parents, or guardians, assume responsibility for such arrangements in private homes.

The Hannah A. Kieffer Rural Scholarship Loan

Miss Hannah A. Kieffer, a former instructor in the College, bequeathed a sum of money to the College as a loan fund for scholarships for the sole use of needy students majoring in Rural

Education. Students who are interested and who qualify for this loan should apply through the College President. Students who wish to teach in a rural school will receive consideration.

BPW Student Loan Fund

The Business and Professional Women's Club of Shippensburg has established a Scholarship Loan Fund which provides money to help pay the college fees for a worthy woman student who is a graduate of the Shippensburg High School. The club selects the student, and applications should be made directly to the President of the Club who will furnish all details. Payments will cease upon the student's withdrawal or failure to maintain average or better than average record in scholarship, character and citizenship.

THE ALUMNI LOAN FUND

This fund is the result of money contributed by various groups and individuals for the purpose of helping students who need financial aid. The fund is administered and controlled by a board composed of three alumni members, the College President, and the College Business Manager.

A member of the Junior or Senior Class who is in need of assistance may secure an application blank from the President of the College and apply for aid according to the constitution adopted to administer the fund. Loans may be made to students who are in the last half of their college career. The loan has been limited to one hundred dollars per semester, although more can be secured, the exact amount determined by the board in accordance with the merits of the case and the status of the fund.

This fund now has a total of approximately \$8,000 a large percentage of which has been in use. Some of the money has been given in the form of so-called Alumni Scholarship Loans in memory of, or in honor of, certain individuals and some has been left by classes either at graduation time or at a later class reunion. The following is a list of the recorded and known donors along with the names thus honored:

Prof. John F. McCreary—Gift of Metropolitan Alumni Association.

Dr. George M. D. Eckels—Gifts of the Class of 1898 and Alumni Groups.

Prof. J. W. Hughes—Gift of the Class of 1893.

Dr. Joseph F. Barton—Gifts of L. M. Shepp, 1896, Millersburg, Pa., and Alumni Groups.

Dr. James Eldon—Gift of the Class of 1921.

Prof. and Mrs. C. I. Penny—Gift of the Class of 1886.

H. Milton Rotb—Gift of the Class of 1899.

The Ada V. Horton Scholarship Fund—Gifts of the Alumni of York County, Class of 1893 and Class of 1911.

In Memoray of John and Sarah Nesbit Early—Gift of Anna E. Early.

Ezra Lehman Scholarship Fund—Class of 1896.

Class of 1890—Gift of John M. Fogelsanger, 1890, and H. K. Strickler, 1890.

Class of 1896 Fund.

Class of 1901 Fund.

Class of 1907 Fund.

Class of 1922 Fund.

Class of 1931.

Class of 1932.

Adams County Alumni.

Country Life Club.

Franklin County Chapter of the Daughters of the American Revolution.

Y. W. C. A. Scholarship Loan Fund.

Women's Athletic Association Loan Fund.

SCHOLASTIC REGULATIONS

REQUIREMENTS FOR ADMISSION

The following general admission requirements were adopted by the Board of State Teachers College Presidents November 20, 1953:

1. General scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Public Instruction. College authorities will make an appraisal of the student's detailed secondary school record in order to determine his capacity to do satisfactory college work. In some cases the college should seek further evidence from the results of a reliable aptitude test such as the American Council on Education Psychological Examinations. (On this test, for example, many students falling below the 25th percentile appear to have difficulty in achieving academic success in college.)

2. Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance director or other school official acquainted with the student.

3. Health and physical condition as evidenced by a health examination by the student's family physician reported on the adopted form and approved by the college physician. No student shall be admitted who has, in the opinion of the college, disabilities which would impair his service as a teacher.

4. Recommendations of two or more college staff members following a personal interview of the applicant.

5. For admission to special curricula the college may require the candidate to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed in the student's chosen field.

ADMISSION TO SHIPPENSBURG

To be admitted to the Freshman Class at the State Teachers College, Shippensburg, an applicant shall take the following steps:

1. Secure from the college a set of application blanks, two of which shall be filled out in detail by the applicant, one to be

completed by the principal of the high school from which the applicant has graduated, and one for the family physician to complete.

2. Have the completed application forms sent to the Dean of Instruction as early as possible. The ten dollar (10.00) advance reservation fee should accompany the application blank. This is absolutely necessary if a dormitory room reservation is desired.

3. Arrange with the Dean of Instruction for an appointment at the college with the interview committee some time between May 1 and September 1. These should be completed at an early date.

4. **IMPORTANT.** If the high school grades has placed the applicant in the lower half of the graduating class it is necessary for the applicant to appear at the college on one of the following dates for placement tests:

June 12.

July 17.

August 21.

Tests begin at 9:00 a.m. Eastern Daylight Saving Time and will be given in the "Old Main" Auditorium.

TESTING PROGRAM

The following testing program has been adopted by the Board of State Teachers College Presidents:

1. To assist in the counselling of students the college shall require each freshman to take a recognized aptitude test such as the American Council on Education Psychological Examination and a test on Communications such as the Cooperative English Test published by the Educational Testing Service.

2. In order to determine the student's achievement for further guidance the college may administer to all sophomore students the Cooperative Tests in English, Contemporary Affairs and General Culture published by the Educational Testing Service. A careful study of each individual student by selected faculty members near the close of the sophomore year is also recommended.

3. In order to measure the academic success of the student as well as the effectiveness of the instructional program of the college, the college may administer, at the request and expense of the student, a recognized terminal test.

ADVANCED STANDINGS

1. Advanced credit will be given for equivalent courses completed in approved institutions of collegiate grade where the course grade received is above the minimum passing grade prescribed by the transferring institution. No student may obtain a certificate or degree without a minimum residence of one year in this college. A student transferring from another college will be required to present a statement of honorable dismissal from that college and to meet the same entrance requirements as any other applicant.
2. No candidate for a college certificate receives more than thirty-two semester hours credit toward graduation for work done in extension classes.
3. No credit is given for correspondence work taken after September 1, 1927.
4. Persons who have completed the work of the two-year Early Childhood, Intermediate, or Rural curriculums are admitted to junior standing for a degree, provided they are graduates of an approved four-year high school. The exact number of credit hours granted depends upon the curriculum which the student has completed and the one in which he wishes to secure his degree. Those who become candidates for the degree in the elementary field secure two full years' credit, but those who transfer to the secondary field lose some credit, usually from ten to twelve hours.
5. Graduates of State Normal Schools prior to September, 1920, who have had a four-year high school preparation, are awarded not more than sixty-four semester hours of credit toward the baccalaureate degree.
6. Graduates of State Normal Schools, who lack four years of high school preparation, may apply to the Pre-Professional Credentials Division, Department of Public Instruction, Harrisburg, Pennsylvania, for a high school equivalent certificate, which when issued by this Division, will be accepted by the State Teachers College as equivalent to graduation from a four-year high school.
7. No credit for public or private teaching experience, previously credited as high school equivalent or as equivalent professional credit toward graduation, is granted or counted toward meeting the requirements for entrance to or graduation from the four-year curricula.

SCHOLASTIC PROGRESS

To assist each student, a progress report is secured by the Dean of Instruction each mid-semester when the teacher hands to the administration office a record of the students not doing satisfactory work. A report is made to each student and, when necessary, to the parents. At the end of the semester, a permanent grade is recorded for each student, and a copy is sent to the parents. Grades are not reported to the parents of trainees attending the college under the Veterans Administration.

QUALITY POINT SYSTEM

1. Just as there is a quality standard for passing each course so there is a quality standard for completing a curriculum. This is made possible by the establishment of a quality point system which means that students cannot be graduated by merely having passing grades in each course.
2. A Quality Point System is in operation and demands that before a student can be graduated, he must have a number of quality points equal to the number of semester hours required in the curriculum, exclusive of the student teaching requirement. That is, a student must have 128 semester hours of credit to be graduated, and, under the quality point system he must have 128 quality points.
3. The Quality Point schedule is as follows:
An "A" grade gives 3 quality points for each semester hour of credit so marked; a "B" grade, 2 quality points; a "C" grade, 1 quality point; a "D" grade, no quality points; a failure grade of "F" gives a minus one quality point for each semester hour. The part dealing with the failure grade became effective September 1, 1949.
4. Students shall not be admitted to student teaching when they have a deficiency of more than six quality points.
5. Students whose quality point-semester hour ratio is below .65 at the end of the Sophomore year shall not be permitted to register for additional new courses required in their curriculum until their quality point ratio has been raised to a .75 or above. (Effective for all students who entered subsequent to September 1, 1948.)
6. Students whose competence is demonstrated by placement tests and educational records, who wish to select advanced courses may, with the approval of the institution, substitute such approved advanced courses in a particular field for those listed in the curriculum. This regulation applies to all curricula.

FACULTY ADVISERS

The students are to consider each of their instructors as an official adviser. The instructors of this college study the educational and social background as well as the aptitude and interests of their students. On the office door of each instructor is posted the office hours during which time students are expected to come for help. Many other scheduled conferences are held between the instructors and the students. Problems and difficulties of the students receive patient and sympathetic attention, thus avoiding many pitfalls which ordinarily befall students without such guidance.

STUDENT TEACHING

1. Student teaching is the most essential course provided in the Teachers College. An assignment for the full time of one semester is essential for each student. Learning proper professional attitudes, legal requirements, pupil records, extra class activities, community contacts, as well as classroom techniques are essential parts of student teaching experience.
2. Student teaching may be assigned only to those students who have completed a semester of work at the Shippensburg State Teachers College prior to their student teaching assignment. This applies to students who have attended other colleges.
3. Former college students who have completed some of the required student teaching at Shippensburg are eligible for additional student teaching by extension provided they have had three years of satisfactory teaching experience.
4. Credit may not be given for teaching experience. Where teachers of experience have had some of their student teaching, arrangements for completing the full requirement may be made with the Dean of Instruction.
5. Teachers who have had three or more years of successful teaching experience in the public schools may meet their student teaching requirement by actual student teaching; or perform an assignment of work germane to teaching technique in connection with regular teaching in a public school in keeping with State Council regulations, or completing courses germane to teaching technique where only a few credits remain for the full requirement of twelve credits.

REQUIREMENTS FOR GRADUATION

1. 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 extra-class activity one semester each year.
2. A minimum of 128 semester hours, including all required courses, is required for graduation.
3. A minimum of 128 quality points is required.
4. The teaching ability of a student shall be satisfactory to the Director of Student Teaching regardless of other credits.
5. Attendance at the Baccalaureat and Commencement exercises is necessary unless very unusual circumstances warrant graduation in absentia. This permission may be granted by the President of the College.
6. All bills and accounts shall be paid.
7. The last course work toward graduation shall be taken on the campus at Shippensburg.

COMMENCEMENT

There is one commencement exercise held each year, usually the last week in May. At this annual commencement, students who have completed the required work for degrees from the summer of the year preceding to the time of the commencement exercises, constitute the graduating class for that year. All students who complete degree requirements within this one year period are required to participate in all parts of the exercises including the wearing of the cap and gown on the day that degrees are conferred.

CERTIFICATION OF TEACHERS

Pennsylvania law requires an applicant for a teachers certificate to be a citizen of the United States.

A student who receives a college degree after completing a four-year curriculum will be granted a provisional College Certificate, which is issued by the Department of Public Instruction, provided an application has been filled out by the graduate for such a certificate. This provisional college certificate which indicates the subjects the hold is permitted to teach is valid for

three years of teaching and is not to be confused with the diploma issued at graduation. It is important to remember that this certificate is not valid for teaching in any other state outside of Pennsylvania.

A College Certificate valid for the elementary field may be extended to include teaching in the secondary field by having completed 12 semester hours of professional work applicable to the secondary school; six of which must be in student teaching. There must be 18 semester hours of credit in the field for which certification is desired.

A College Certificate valid for teaching in the secondary school may be extended to the elementary field by the presentation of thirty semester hours of work in professional education applicable to the elementary grades; at least six of the credits must be in elementary student teaching.

The Provisional College Certificate may be made permanent after it has been used for three years of successful teaching experience in the appropriate field in the Public Schools of Pennsylvania provided a teacher rating of "middle" or better has been secured and at least six semester hours of additional preparation of collegiate grade has been completed subsequent to the baccalaureate degree; one half of which credit must be professional, and the remainder related to the subjects or subject field in which the holder is certificated to teach.

Residents of Pennsylvania who graduate from this college are required to teach at least two years in the Commonwealth.

PLACEMENT

The College maintains a placement office as part of its public service. Its purpose is to aid students and graduates in obtaining desirable positions as teachers. It will render assistance to school officials in locating well qualified teachers who fit the requirements of vacancies in the schools of the Commonwealth.

Seniors are requested to enroll with the placement office during the time they are doing their student teaching. While the placement office does not guarantee a position, it offers without cost, opportunities which would not otherwise be available. Alumni and school officials are urged to use this school service and to cooperate in making the service more reliable and worthwhile for both the student and the schools to be served.

THE CURRICULUMS

The Curriculums offered at this college include elementary education providing emphasis in early childhood education, in intermediate education or in rural education; secondary education for teaching the various academic subjects of the junior and senior high school fields; education for teaching in the field of business education; and education for Public School Nurses and Dental Hygienists. All Curriculums are four years in length and lead to the degree of Bachelor of Science in Education and to a Provisional College Certificate to teach in the public schools of the Commonwealth of Pennsylvania.

NEW EMPHASIS

The new curriculums hold a broad basis of general education—the common learnings necessary for living in the social and the physical environment—the development of the arts and skills of communication common to cultured people, the understanding and acceptance of the higher moral, aesthetic and spiritual values, and the essential knowledge and habits necessary to maintain mental and physical well being.

Those professional courses and experiences recognized as basic or required law or regulation for all teachers have been included and, in addition to them, the specific training designed for competency at various age levels and in various fields of teaching has been provided.

The committee proposes the outlines of courses in the elementary, secondary and the special fields as a basis for use and continuing study of more effective materials and methods of fulfilling the purpose for which the teachers colleges of Pennsylvania were established—"the education and preparation of teachers" for the public schools of the Commonwealth.

SELECTION OF CURRICULUM

Curriculum and areas of specialization should be selected with care and with the advice of college authorities. Many students will undertake graduate study after completing the undergraduate preparation for teaching. Since requirements for admission to graduate schools vary widely, not only with different colleges, but with the fields of study within a give college, undergraduates are advised to explore during the junior and senior years the opportunities and requirements for graduate study in their chosen fields to enable them to meet the special requirements wherever possible.

ELEMENTARY CURRICULUM

The curriculum for the preparation of elementary teachers is one of the best in the country. It provides a broad academic background in addition to the various professional courses necessary for an elementary teacher. Every course is given with a distinctive purpose.

Professional Opportunities

For the past twenty years the demand for teachers completing the elementary curriculum has surpassed the supply. Recently the shortage of elementary teachers has been most critical and the graduate in this field has had the privilege of choosing one of many offers. The demand has been so great that a number of students have accelerated their program through attending the summer sessions, thus graduating in less than the regular four year period.

Elementary teachers in Pennsylvania receive the same beginning salary as teachers in high schools. Teachers in rural districts where the cost of living is usually lower, receive the same initial salary as teachers in larger towns and cities. Teaching experience in the elementary field is very advantageous for young men and women who desire to become administrators, supervisors, or specialists.

Graduates of the elementary curriculum may have their College certificate extended to include the secondary fields by attending college several summer sessions. Graduates in the secondary curriculum may have their college certificate extended to include the elementary field by completing thirty additional hours of appropriate professional courses. In past years a number of students who completed the secondary curriculum have taken this added work in the elementary field and have made rapid progress in the profession.

ELEMENTARY CURRICULUM COURSES

(Sequence of courses subject to change for administrative reasons)

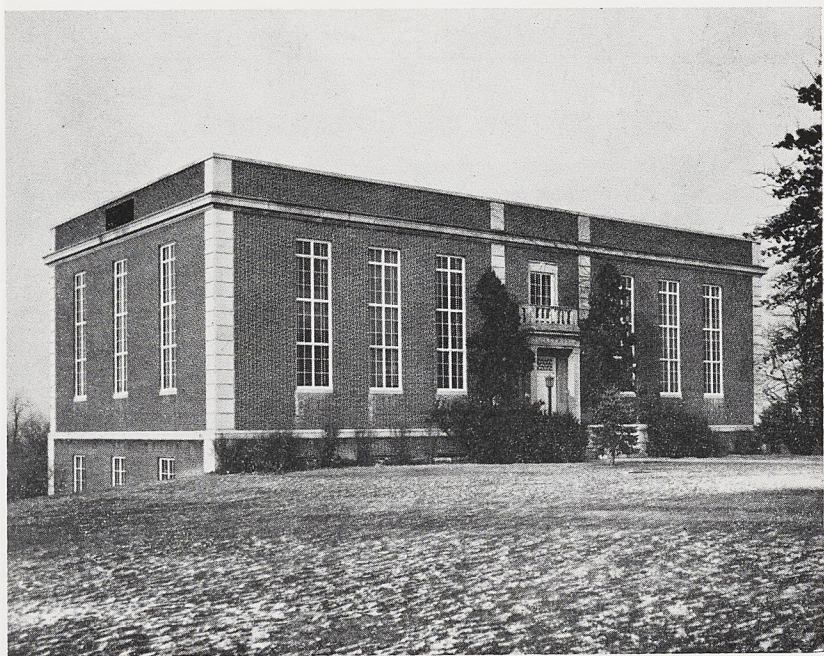
	Cl. Sem. Hrs. Hrs.		Cl. Sem. Hrs. Hrs.
FIRST SEMESTER		FOURTH SEMESTER	
Communications I	5 5	World Culture II	5 5
or English I (3-3)		or Literature II (2-2)	
and Speech I (2-2)		and History of Civiliza-	
Professional Orientation .	3 3	tion II (3-3)	
Basic Biology	4 3	Audio-Visual Education ..	3 2
Health	2 2	Teaching of Music in the	
World Geography	3 3	Elementary Grades	4 3
		Teaching of Art in the	
		Elementary Grades	4 3
		*Physical Education III ..	2 1
Total	17 16	Electives	2 2
		Total	20 16
SECOND SEMESTER		FIFTH SEMESTER	
Communications II	5 5	History of United States	
or English II (3-3)		and Pennsylvania I . . .	3 3
and Speech II (2-2)		Language Arts in the	
**Introduction to Art . . .	3 2	Elementary Grades	9 9
**Introduction to Music .	3 2	or Teaching of	
Basic Physical Science . . .	4 3	Reading (3-3)	
*Physical Education I . . .	2 1	Language (3-3)	
Geography of the United		Children's Literature (3-3)	
States and Pennsylvania	3 3	General Psychology	3 3
		Teaching of Health	3 2
Total	20 16	Total	18 17
THIRD SEMESTER		SIXTH SEMESTER	
World Culture I	5 5	History of United States	
or Literature I (2-2)		and Pennsylvania II . . .	3 3
and History of Civiliza-		Child Development	3 3
tion I (3-3)		Social Living in the	
Music for the Elementary		Elementary Grades	9 9
Grades	2 2	or Teaching of	
*Physical Education II . . .	2 1	Arithmetic (3-3)	
Science for the Elementary		Elementary Science (3-3)	
Grades	3 3	Social Studies and	
Art for the Elementary		Geography (3-3)	
Grades	2 2	Electives	3 3
Electives	3 3		
		Total	18 18
Total	17 16		

SEVENTH SEMESTER		EIGHTH SEMESTER			
American Citizenship	6	6	Student Teaching and Direction of Student Activities	30	12
Option I Home and Family Living (3-3) and American Govern- ment (3-3)			Professional Practicum in- cluding School Law . . .	2	2
Option II Introduction to Philosophy (3-3) and American Govern- ment (3-3)			Total	<u>32</u>	<u>14</u>
Educational Psychology and Evaluative Tech- niques	3	3			
Electives	6	6			
Total	<u>15</u>	<u>15</u>			

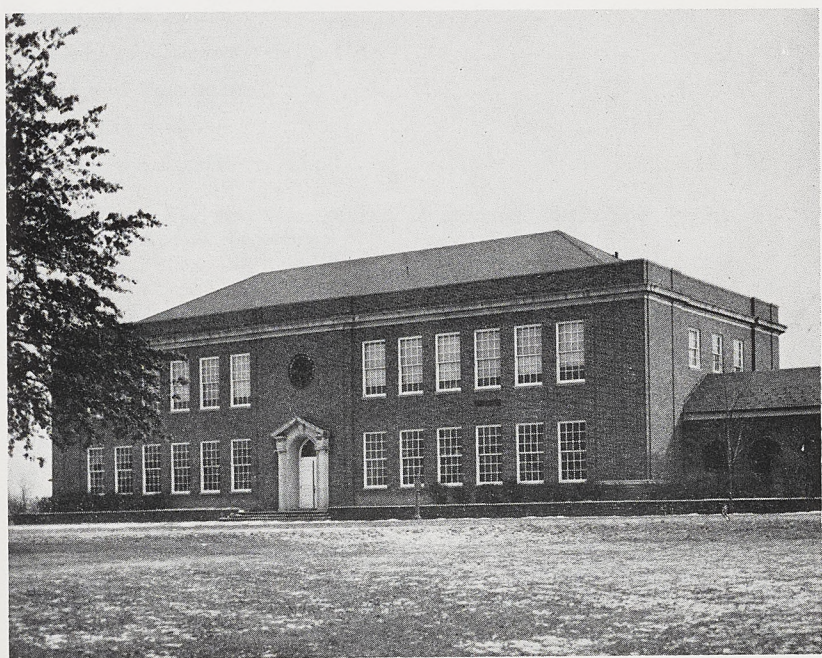
*Physical Education I, II and III may be individual or group activity.

**All or any part of these courses (1-3 s.h.) may be scheduled as a part of the unit in World Culture.

A student may be given the privilege of taking an examination in any subject matter area for the purpose of securing exemption from taking a course. A student shall be given credit for a course in which he registers and in which he demonstrates competence by a qualifying examination.



Library



Science Building

SPECIALIZATION AND ELECTIVES

Provisional College Certificates issued on the basis of the four year elementary curriculum are valid for kindergarten and Grades One to Six inclusive and for Grades Seven and Eight if not in an approved junior high school or a junior-senior high school.

Students may specialize in Early Childhood, in Intermediate grade, or in upper grade teaching by selecting appropriate electives.

(Required)

Courses listed in the elementary Curriculum outline.

(Electives)

	Cl. Hrs.	Sem. Hrs.
Child Adjustment	3	3
Child Psychology	3	3
Creative Art	3	3
Creative Activities in the Elementary School	3	3
Diagnostic and Remedial Reading	3	3
Pre School Education	3	3
Problems of Elementary School Art	3	3
School and Community	3	3
Speech Problems	3	3
Teaching the Exceptional Child	3	3

Students may also elect courses in academic fields and special curriculums offered at the college.

SECONDARY CURRICULUM

The curriculum for the preparation of secondary teachers is flexible because of the selection of major and minor fields of concentration. These fields of concentration become the fields in which the student is certificated to teach. During the past number of years the demand for teachers of science and mathematics has more often exhausted the supply than in some other fields especially English and social studies.

There is a demand for teachers who possess advanced degree in subject fields. This curriculum is so devised that a student can complete a sufficient number of courses in an academic field to give the necessary foundation for such advanced degrees.

SECONDARY CURRICULUM COURSES

(Sequence of courses subject to change for administrative reasons)

	Cl. Sem. Hrs. Hrs.		Cl. Sem. Hrs. Hrs.
FIRST SEMESTER			
Communications I	5	5	
or English I (3-3)			
and Speech I (2-2)			
Basic Biology	4	3	
Health	2	2	
World Geography	3	3	
Electives	2	2	
Total	16	15	
SECOND SEMESTER			
Communications II	5	5	
or English II (3-3)			
and Speech II (2-2)			
Basic Physical Science . . .	4	3	
*Physical Education I . . .	2	1	
Professional Orientation .	3	3	
Fundamentals of Mathe-			
matics	3	3	
Electives	2	2	
Total	19	17	
THIRD SEMESTER			
World Culture I	5	5	
or Literature I (2-2)			
and History of Civiliza-			
tion I (3-3)			
**Introduction to Art . . .	3	2	
*Physical Education II . . .	2	1	
Science in Modern Civiliza-			
tion	3	3	
Electives	6	6	
Total	19	17	
FOURTH SEMESTER			
World Culture II	5	5	
or Literature II (2-2)			
and History of Civiliza-			
tion II (3-3)			
**Introduction to Music .	3	2	
*Physical Education III . .	2	1	
Electives	9	9	
Total	19	17	
FIFTH SEMESTER			
History of United States			
and Pennsylvania I	3	3	
Audio-Visual Education . .	3	2	
General Psychology	3	3	
Electives	8	8	
Total	17	16	
SIXTH SEMESTER			
History of United States			
and Pennsylvania II . . .	3	3	
Problems of Secondary			
Education, including			
Guidance	3	3	
Educational Psychology			
and Evaluative			
Techniques	3	3	
Electives	7	7	
Total	16	16	
SEVENTH SEMESTER			
American Citizenship	6	6	
Option I Home and			
Family Living (3-3)			
and American Govern-			
ment (3-3)			
Option II Introduction			
to Philosophy (3-3)			
and American Govern-			
ment (3-3)			
Electives	10	10	
Total	16	16	
EIGHTH SEMESTER			
Student Teaching and			
Direction of Student			
Activities	30	12	
Professional Practicum			
including School Law . .	2	2	
Total	32	14	
GRAND TOTAL			128

*Physical Education I, II, and III may be individual or group activity.

**All or any part of these courses (1-3 s.h.) may be scheduled as part of the unit in World Culture.

Graduation requirement for this curriculum includes specialization in not less than two teaching fields except in the general field of science where no second field is required.

1. First Field

The minimum number of semester hours required for a first field of specialization is:

General field of Science	38
English	35
Social Studies	30
Social Science	30
History	30
Biological Science	30
Physical Science	30
Chemistry	27
Physics	27
Geography	24
Mathematics	24
Aeronautics	24
General Speech	24
French	24
German	24
Spanish	24
Latin	24

2. Second Field

The second field requires fewer semester hours than the minimum necessary for certification.

A student may be given the privilege of taking an examination in any subject matter area for the purpose of securing exemption from taking a course. A student shall be given credit for a course in which he registers and in which he demonstrates competence by a qualifying examination.

AREAS OF SPECIALIZATION

AERONAUTICS

(First field 24 S.H.; Second field 18 S.H.)

(Required)	Cl. Sem.		(Electives)	Cl Sem.	
	Hrs.	Hrs.		Hrs.	Hrs.
Aviation Mathematics ...	3	3	Aircraft Engines	12	6
Aircraft Communications and Regulations	3	3	Identification of Aircraft .	3	3
General Service and Struc- ture of Aircraft	3	3	Climatology	3	3
Aerial Navigation	3	3	Commercial Air Transpor- tation	3	3
Meteorology	3	3	Flight Experience-Varia- ble Credit	3	6
Aerodynamics and Theory of Flight	3	3			

BIOLOGICAL SCIENCE

(First field 30 S.H.;
Second field 18 S.H.)

Students demonstrating competence to specialize in Biological Science will not be required to take

Basic Biology.

	Cl. Sem.	Hrs. Hrs.
(Required)		
Botany I	6	4
Botany II	6	4
Zoology I	6	4
Zoology II	6	4
Teaching Science in the Secondary School	3	3

(Electives)

(At least one course to be selected from each group below.)

Group 1. Field Course

Field Botany	5	3
Ornithology	5	3
Entomology	5	3
Ecology	5	3
Field Zoology	5	3

Group 2. Laboratory Courses

Vertebrate Anatomy	5	3
Physiology	5	3
Microbiology	5	3
Parasitology	5	3
Genetics	5	3

CHEMISTRY

(First field 27 S.H.;
Second field 18 S.H.)

Students demonstrating competence to specialize in Chemistry will not be required to take Basic Physical Science.

(Required)

Inorganic Chemistry I ...	6	4
Inorganic Chemistry II ..	6	4
Qualitative Analysis	7	3
Quantitative Analysis	7	3
Teaching of Science in the Secondary School	3	3
Organic Chemistry I	6	4
Organic Chemistry II	5	3
Biological Chemistry	6	3
Physical Chemistry	5	3
Colloidal Chemistry	6	3
Industrial Chemistry	5	3

Cl. Sem.
Hrs. Hrs.

(Electives)

Chemistry of Foods and Nutrition	6	3
Water Analysis	4	2

PHYSICAL SCIENCE

(First field 30 S.H.;
Second field 18 S.H.)

Students demonstrating competence to specialize in physical science will not be required to take Basic Physical Science.

(Required)

Inorganic Chemistry I ...	6	4
Inorganic Chemistry II ..	6	4
Physics I	6	4
Physics II	6	4
Teaching Science in the Secondary School	3	3

(Electives)

To be selected from Chemistry, Earth Science, or Physics.

In order to meet the minimum certification in Physical Science, selected as a second field, the student will be required to complete Chemistry eight semester hours, Physics eight semester hours, and one additional course in either Chemistry or Physics.

GENERAL FIELD
OF SCIENCE

(First field only 38 S.H.)

Students demonstrating competence to specialize in General Science will not be required to take Basic Biology or Basic Physical Science.

Science in Modern Civilization will not be required where the first field of specialization is Science as a General field.

(Required)

Botany I	6	4
Botany II	6	4
Zoology I	6	4
Zoology II	6	4
Inorganic Chemistry I ...	6	4
Inorganic Chemistry II ..	6	4
Earth Science	3	3
Physics I	6	4
Physics II	6	4
Teaching Science in the Secondary Schools	3	3

PHYSICS

(First field 27 S.H.;
Second field 18 S.H.)

Students demonstrating competence to specialize in Physics will not be required to take Basic Physical Science.

	Cl. Sem.	Hrs.	Hrs.
(Required)			
Physics I	6	4	
Physics II	6	4	
Teaching of Science in the Secondary School .	3	3	
(Electives)			
Magnetism and Electricity	6	4	
Mechanics	6	4	
Heat	6	4	
Electronics	5	3	
Optics	5	3	
Sound	5	3	
Physical Measurements	Variable		

Note: College Algebra and Trigonometry are prerequisite for specializing in Physics as a first field.

ENGLISH

(First field 35 S.H.;
Second field 18 S.H.)

(Required)

Communications I	5	5	
or English I (3-3)			
Speech I (2-2)			
Communications II	5	5	
or English II (3-3)			
Speech II (2-2)			
*World Culture I (5-5)			
or Literature I	2	2	
History of Civilization I (3-3)			
*World Culture II (5-5)			
or Literature II	2	2	
History of Civilization II (3-3)			
Recent Trends in Teaching English	3	3	

(Restricted Electives)

At least one course must be selected from each of Groups 1, 2, 3, and 4.

Group 1. Survey Courses:

American Literature	3	3	
English Literature	3	3	

Cl. Sem.
Hrs. Hrs.

American Poetry	3	3
American Prose	3	3
Children's Literature and Story Telling	3	3

Group 2. Period Courses:

Pre-Shakespearean Literature	3	3
Shakespeare	3	3
Eighteenth Century Literature	3	3
The Romantic Movement .	3	3
Victorian Literature	3	3

Group 3.

Literary form Courses:

Criticism	3	3
Modern Drama	3	3
The Novel to 1870	3	3
Contemporary Novel	3	3
Essay	3	3
Contemporary Poetry ...	3	3
Short Story	3	3
Literature of Biography .	3	3

Group 4. Composition:

Creative Writing	3	3
Journalism	3	3
Advanced Composition ..	3	3
English Philology and Grammar	3	3

*World Culture I and II are composite courses. Each course will carry 2 S.H. toward certification in English.

FRENCH

(First field 24 S.H.;
Second field 18 S.H.)

(Required)

French I	3	3
French II	3	3
French III	3	3
French IV	3	3

(Electives)

French V—Survey of Literature	3	3
French VI—Survey of Literature	3	3
French VII—Advanced Language and Tech- niques	3	3
French VIII—French Classical Drama	3	3
French IX—French Literature of the 19th Century	3	3
French X—Development of the French Novel ..	3	3

GERMAN		Cl. Sem.	
(First field 24 S.H.; Second field 18 S.H.)		Hrs. Hrs.	
(Required)			
German I	3 3	Advanced Spanish Con- versation	3 3
German II	3 3	Commercial Spanish	4 4
German III	3 3	Spanish-American Litera- ture	6 6
German IV	3 3	Contemporary Spanish Drama	6 6
(Electives)		GEOGRAPHY	
German V and VI—Survey of German Literature ..	6 6	(First field 24 S.H.; Second field 18 S.H.)	
German VII—Intensive Grammar and Teaching Techniques	3 3	(Required)	
German VIII—Advanced Conversation and Com- position	3 3	World Geography	3 3
German IX—Special Projects	3 3	Teaching Geography in Secondary Schools	3 3
German X—The Drama in German Literature .	3 3	(Restricted Electives)	
German XI—Lyric Poetry in German Literature .	3 3	At least two courses must be chosen from each group.	
LATIN		Group 1. Earth Studies:	
(First field 24 S.H.; Second Field 18 S.H.)			
(Required)		Climatology	3 3
Latin I—Ovid and Virgil	3 3	Geology	3 3
Latin II—Livy	3 3	Meteorology	3 3
Latin III—Cicero and Tacitus Selections	3 3	Physiography	3 3
Latin IV—Horace	3 3	Cartography	3 3
Latin V—Plautus and Terence	3 3	Group 2. Economic:	
Latin VI—Roman Civiliza- tion	3 3	Economic Geography ...	3 3
Note: To specialize in Latin, students must present not less than two years of secondary school Latin and demonstrate competence to specialize in this field.		Commercial Air Trans- portation	3 3
		Conservation of Natural Resources	3 3
		Geographic Influence in American History	3 3
		Trade and Transportation	3 3
SPANISH		Group 3. Regional Studies:	
(First field 24 S.H.; Second field 18 S.H.)			
(Required)			
Elementary Spanish I and II	6 6	Geography of Penna.	3 3
Intermediate Spanish I and II	6 6	Geography of Asia	3 3
Introduction to Spanish Literature	3 3	Geography of Africa and Australia	3 3
Spanish Conversation	3 3	Geography of Europe ...	3 3
		Geography of the Far East	3 3
		Geography of Latin America	3 3
		Geography of the United States and Canada	3 3
		World Problems in Geography	3 3
		Field Courses (as ap- proved)	3 3

MATHEMATICS

(First field 24 S.H.;
Second field 18 S.H.)

(Required)

	Cl. Sem.	Hrs. Hrs.
College Algebra	3	3
Trigonometry	3	3
Analytic Geometry	3	3
Calculus I (differential) ..	3	3
Calculus II (Integral) ..	3	3
Teaching Mathematics in Secondary Schools	3	3

(Electives)

Advanced College Algebra	3	3
Synthetic Geometry	3	3
Spherical Trigonometry and Navigation	3	3
Statistics	3	3
History of Mathematics ..	3	3
College Geometry	3	3
Field Work in Mathe- matics	3	3
Calculus III	3	3
Mathematics of Finance ..	3	3

GENERAL SPEECH

(First field 24 S.H.;
Second field 18 S.H.)

(Required)

	Cl. Sem.	Hrs. Hrs.
*Communications I (5-5) English I (3-3)		
Speech I	2	2
*Communications II (5-5) English II (3-3)		
Speech II	2	2
Phonetics and Voice	3	3
Oral Interpretation	3	3
Play Production	3	3
Speech Program in Sec- ondary Schools	2	2

(Electives)

Stagecraft, Scenic Design and Lighting	3	3
Debate, Group Discussion and Parliamentary Pro- cedure	3	3
Radio I	3	3
Radio II	3	3
Creative Dramatics and Story Telling	3	3
Costume and Make-up ...	3	3
Choral Speaking	3	3
Community Dramatics and Pageants	3	3
Speech Development and Improvement	3	3
Speech Problems	3	3

*Communications I and II are composite courses. Each course will carry 2 S.H. credit toward specialization.

SOCIAL STUDIES

(First field 30 S.H.; 15 in
History, 15 in Social Science)Cl. Sem.
Hrs. Hrs.

(Required)

*World Culture I (5-5) or History of Civiliza- tion	3	3
and Literature I (2-2)		
*World Culture II (5-5) or History of Civiliza- tion	3	3
and Literature II (2-2)		
History of United States and Pennsylvania I ...	3	3
History of United States and Pennsylvania II ...	3	3
American Citizenship ...	6	6
or American Govern- ment (3-3)		
and Home Family Living (3-3)		
or Introduction to Philosophy	3	3
Principles of Sociology ..	3	3
Principles of Economics .	3	3
Teaching of Social Studies in Secondary Schools ..	3	3

(Electives)

History of Europe to 1815	3	3
History of Europe since 1815	3	3
History of Pennsylvania .	3	3
History of England	3	3
20th Century World	3	3
Diplomatic History of the United States	3	3
International Relations 1919 to Present	3	3
History of Latin America	3	3
Renaissance to Reforma- tion	3	3
History of the Middle East and India	3	3
History of the Far East ..	3	3
Contemporary Social Problems	3	3
Contemporary Economic Problems	3	3
Municipal Government ..	3	3
Comparative Government	3	3
Consumer Education	3	3
Industrial Relations	3	3

*World Culture I and II are composite courses. Credit in each is 3 S.H. for certification in Social Studies.

HISTORY

(First field 30 S.H.;
Second field 18 S.H.)Cl. Sem.
Hrs. Hrs.

(Required)

*World Culture I (5-5) or History of Civiliza- tion	3	3
and Literature I (2-2)		
*World Culture II (5-5) or History of Civiliza- tion	3	3
and Literature II (2-2)		
History of United States and Pennsylvania I ...	3	3
History of United States and Pennsylvania II ...	3	3
**American Citizenship .	6	6
or American Govern- ment (3-3)		
and Home and Family Living (3-3)		
or Introduction to Philosophy (3-3)		
Teaching Social Studies in the Secondary School	3	3

(Electives)

History of Europe to 1815	3	3
History of Europe since 1815	3	3
History of Pennsylvania .	3	3
History of England	3	3
20th Century World	3	3
Diplomatic History of the United States	3	3
International Relations 1919 to Present	3	3
History of Latin America	3	3
Renaissance to Reforma- tion	3	3
History of Middle East and India	3	3
History of the Far East ..	3	3
Principles of Sociology ..	3	3
Principles of Economics .	3	3

*World Culture I and II are composite courses. Each course will count 3 S.H. toward certification in History.

**American Citizenship will not count toward second field.

SOCIAL SCIENCE

(First field 30 S.H.;

Second field 18 S.H.)

(Required)

	Cl. Sem. Hrs.	Hrs.
*World Culture I (5-5) or History of Civiliza- tion I 3	3	3
and Literature I (2-2)		
*World Culture II (5-5) or History of Civiliza- tion II 3	3	3
and Literature II (2-2)		
History of United States and Pennsylvania I ...	3	3
History of United States and Pennsylvania II ...	3	3
**American Citizenship .	6	6
or American Govern- ment (3-3)		
and Home and Family Living (3-3)		
Introduction to Philosophy (3-3)		
Principles of Sociology ..	3	3
Principles of Economics ..	3	3
Teaching Social Studies in the Secondary Schools .	3	3

Cl. Sem.
Hrs. Hrs.

(Electives)

Contemporary Social Problems	3	3
Contemporary Economic Problems	3	3
Consumer Education	3	3
Municipal Government ..	3	3
Comparative Government	3	3
Industrial Relations	3	3

*World Culture I and II are composite courses. Credit in each is 3 S.H. for certification in Social Studies.

**American Citizenship does not count toward second field.

BUSINESS EDUCATION CURRICULUM

The State Teachers College, Shippensburg, Pennsylvania, has been specifically designated by the State Department of Public Instruction and the State Council of Education to prepare teachers of business subjects for high schools and junior high schools of the Commonwealth. The fulfillment of the four-year requirement leads to the degree of Bachelor of Science in Education, thereby certificating the graduates in the field of business education as teachers or as supervisors.

Young men and women who are graduated from the high school academic, business, or general course are afforded a splendid opportunity to obtain preparation in teaching techniques and in business skills.

Purpose

The purpose of the curriculum in Business Education is to provide thorough and systematic preparation in the fundamentals of business education, thus giving an intelligent understanding of both the generalized and specialized spheres of education encompassed in the activities of business education.

Teaching Sequence

The Department of Business Education offers four teaching sequences: General Business, Secretarial, Retail Selling, and Accounting. The General Business sequence leads to certification in the three major fields of business—shorthand, typewriting, and accounting. The Secretarial, Retail Selling, and Accounting sequences permit more freedom in the selection of electives, thus providing an opportunity for certification in other fields, or permitting certification in two Business Education sequences. In addition to the sequence elected, certification to teach business law, business arithmetic, economics, clerical practice, business English and junior business training is secured.

Equipment

Modern office machines are a part of the equipment of the Department. Calculating and adding machines, posting machines, duplicating equipment — mimeograph, mimeoscopes, hectograph—dictating and transcribing units, and other up-to-date office appliances enable the student to obtain both a theoretical knowledge and the practical training in the use of the mechanical time-savers of business.

Opportunities

There is a large and growing demand for qualified degree holding teachers of business education in the high schools of the Commonwealth. The demand for stenographic and typewriting teachers far surpasses the supply. Orientation and exploratory courses, and increased guidance in junior high schools have caused a demand for teachers of elementary business training and kindred subjects. The realization that retail selling needs trained personnel has caused an impetus in the demand for teachers prepared in this phase of business education. The main outcome of the curriculum is qualified teachers of business subjects, but various concomitant learnings emerge during this period of preparation.

Practical Experience

Practical experience in various phases of business is a vital and essential part of the preparation of prospective business education teachers. This experience, to be of the most value, should be in the field or fields in which the student is preparing to teach. Such experience can be acquired largely during summer vacations and part time while attending college.

GRADUATION REQUIREMENTS AND GENERAL INFORMATION

1. On completing the basic first year of the Business Education curriculum, students are expected to choose one of the following: General Commercial Sequence, Accounting Sequence, Secretarial Sequence or Retail Selling Sequence as shown on the following pages.
2. Sequence of courses is subject to change for administrative reasons.
3. The satisfactory completion of the curriculum outlined with not fewer than 128 semester hours is required for graduation.
4. Any courses offered at the college may be chosen as electives subject to the approval of the President.
5. To be graduated with a Retail Selling Sequence, two semesters of Accounting credit are required.

BUSINESS EDUCATION CURRICULUM COURSES

(Sequence of courses subject to change for administrative reasons.)

Basic First Year

FIRST SEMESTER			SECOND SEMESTER		
	Cl.	Cr.		Cl.	Cr.
Communications I	5	5	Communications II	5	5
or English I (3-3)			or English II (3-3)		
and Speech I (2-2)			and Speech II (2-2)		
Business Mathematics I . .	3	3	Introduction to Music . . .	3	2
Introduction to Art	3	2	Basic Physical Science . . .	4	3
Basic Biology	4	3	Professional Orientation . .	3	3
Economic Geography	3	3	Physical Education I	2	1
Health	2	2	Accounting I	4	3
Total	20	18	Total	21	17

THIRD SEMESTER

	Combined Sequence		Stenog. Sequence		Acct. Sequence		*Retail Selling Sequence	
	Cl.	Cr.	Cl.	Cr.	Cl.	Cr.	Cl.	Cr.
World Culture I	5	5	5	5	5	5	5	5
or History of Civilization I (3-3) and Literature I (2-2)								
Sales & Retail Selling	3	3	3	3	3	3	3	3
Accounting II	4	3			4	3	4	3
Shorthand I	4	3	4	3				
Typewriting I	4	2	4	2	4	2	4	2
Physical Education II	2	1	2	1	2	1	2	1
Elective			3	3			3	3
Total	22	17	21	17	18	14	21	17

FOURTH SEMESTER

World Culture II	5	5	5	5	5	5	5	5
or Economics I (3-3) and Literature II (2-2)								
General Psychology	3	3	3	3	3	3	3	3
Shorthand II	4	3	4	3				
Typewriting II	4	2	4	2	4	2	4	2
Accounting III	3	3			3	3		
Physical Education III	2	1	2	1	2	1	2	1
Electives			3	3	3	3	6	6
Total	21	17	21	17	20	17	20	17

*Nine (9) semester hours of Retail Selling electives necessary for certification in this sequence.

FIFTH SEMESTER

	Combined		Stenog.		Acct.		*Retail	
	Sequence	Cr.	Sequence	Cr.	Sequence	Cr.	Selling	Cr.
	Cl.	Cr.	Cl.	Cr.	Cl.	Cr.	Cl.	Cr.
Educational Psychology and Evaluation Techniques	3	3	3	3	3	3	3	3
Shorthand III, Transcription	4	3	4	3				
Typewriting III, Applications	4	2	4	2				
Accounting IV	3	3			3	3		
Business Law I	3	3	3	3	3	3	3	3
Problems of Secondary Business Education	3	3	3	3	3	3	3	3
Electives			3	3	5	5	8	8
Total	20	17	20	17	17	17	17	17

SIXTH SEMESTER

Business Correspondence	2	2	2	2	2	2	2	2
Secretarial Practice	5	2	5	2				
Business Law II	3	3	3	3	3	3	3	3
Economics II or Home & Family Living .	3	3	3	3	3	3	3	3
Audio-Visual Education ..	3	2	3	2	3	2	3	2
Methods of Teaching Business Education	3	3	3	3	3	3	3	3
Electives					2	2	2	2
Total	19	15	19	15	16	15	16	15

SEVENTH SEMESTER

Business Organization ...	2	2	2	2	2	2	2	2
Business Mathematics II ..	2	2	2	2	2	2	2	2
Clerical Practice and Office Machines	5	3	5	3	5	3	5	3
Accounting V					3	3		
American Government ...	3	3	3	3	3	3	3	3
History of United States and Pennsylvania	3	3	3	3	3	3	3	3
Total	15	13	15	13	18	16	15	13

EIGHTH SEMESTER

Student Teaching and Direction of Student Activities	30	12	30	12	30	12	30	12
Professional Practicum including School Law ..	2	2	2	2	2	2	2	2
Total	32	14	32	14	32	14	32	14

BUSINESS EDUCATION ELECTIVES

	Cl.	Cr.
Money and Banking	2	2
Meeting Community Needs	3	2
Labor Problems	2	2
Office Management	3	3
Economic History of U. S.	3	3

DEGREE CURRICULUM FOR DENTAL HYGIENISTS

The degree of Bachelor of Science in Education may be conferred upon dental hygienists by meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Public Instruction.

"The professional education requirement for dental hygiene is the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty-two weeks of not less than thirty hours each week or its equivalent in and graduation from a dental hygiene school approved by the State Dental Council and Examining Board."*

2. The satisfactory completion in addition thereto of 64 semester hours of professional and general education courses distributed as follows:

	Semester Hours
A. Education	11
(1) Professional Orientation	3
(2) General Psychology	3
(3) Educational Psychology and Evaluative Techniques	3
(4) Audio-Visual Education	2
B. General Education	41
(1) Communications I	5
or English I (3-3)	
and Speech I (2-2)	
Communications II	5
or English II (3-3)	
and Speech II (2-2)	
(2) Fine Arts	4
a. Introduction to Art	2
b. Introduction to Music	2
(3) Geography	6
a. World Geography	3
b. Geography of the United States and Canada	3
(4) World Culture I	5
or Literature I (2-2)	
and History of Civilization I ... (3-3)	
World Culture II	5
or Literature II (2-2)	
and History of Civilization II ... (3-3)	
(5) Social Studies	11
a. American Government	3
b. Economics	3
c. History of the United States and Pennsylvania	3
d. Sociology	2
C. Electives	12
Total	64

In each category above, credit will be given for equivalent courses pursued in the two year dental hygiene curriculum. In such cases students must increase their electives by the number of semester hours so credited.

In the case of dental hygienists who had less than two years of specialized training on the basis of which they were licensed to practice dental hygiene, proportional credit will be given. Such persons must pursue additional general education courses in college to make up the deficiency.

Electives may be chosen with the approval of the Dean of Instruction from any field or curriculum offered at the college in which the student is enrolled.

This curriculum became effective January 23, 1951.

*Bulletin 644, 1950: Rules and Regulations for Applicants for Admission to Examination for Licensure to Practice Dentistry and Dental Hygiene and Examination Procedures.

PUBLIC SCHOOL NURSES CURRICULUM

The degree of Bachelor of Science in Education may be conferred upon registered nurses who meet the following requirements:

1. The satisfactory completion of a three year curriculum in an approved school of nursing and registration by the State Board of Examiners for the Registration of Nurses of Pennsylvania.
2. The satisfactory completion of forty-five (45) semester hours of additional preparation distributed as follows:
 - A. Courses related to public school nursing

	Sem. Hrs.
Public School Nursing	2
Public School Organization	2
Public Health Nursing	6
Nutrition and Community Health	2
Family Case Work	3
	—
Total	15

B. General and Professional Education

	Sem. Hrs.
History of the United States and Pennsylvania	3
Communications	5
World Culture	5
American Government	3
Professional Orientation to Education	3
Education Psychology	3
Audio-Visual Education	2
	—
Total	24

C. Electives

6

GRAND TOTAL 45

In the case of nurses with less than three years preparation for registration, such persons will pursue additional courses to meet the requirements for the degree.

COURSES OF INSTRUCTION

THE ARTS

ART

A-1 Introduction to Art

A course dealing with art as a vital part of contemporary living. Art of other ages will be given some consideration as a basis for interpreting the present. Students will be encouraged to experiment with material in order to understand the creative process. Through a variety of experiences an attempt will be made to help students develop an awareness of and a sensitiveness to all forms of art. 2 semester hours

—Preparatory Art

A non-credit course in art skills, designed to prepare students who have had limited or no art experience for entrance into Art A-11. Required of all students whose art background appears to be insufficient for them to pursue the professional courses with profit. 2 class periods per week. No credit

A-11 Art for the Elementary Grades

Practice in freehand drawing and composition in various mediums; a study of the principles of design and color, with application to creative problems. 2 semester hours

A-12 Teaching Art in the Elementary Grades

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. 3 semester hours

A-30 Problems of Elementary School Art

This course is designed to develop a basic understanding of the implications of art as an integral part of general education, and to provide opportunity to develop a complete program of art in a school situation. It is intended to aid the elementary school teacher to provide better instruction in art. 3 semester hours



Quadrangle

A-31 Creative Art

This course is designed to develop an understanding of art as creative expression and as it functions in the modern curriculum. A background of philosophical factual and technical material necessary for stimulating children to self-expression is acquired through planning and participation in integrated units of the activity. 3 semester hours

MUSIC**A-2 Introduction to Music**

This course provides an orientation in music experience which aims to equip the prospective teacher with a knowledge and understanding of music as it relates to general education and the art of daily living. Through the use of recordings, radio, concerts, and other media, every possible contact is made with music. The possibility of correlation with other subjects is explored. This course is required of all sophomores in general education. No prerequisite courses or special abilities are required. 2 semester hours

—Preparatory Music

A non-credit course in music skills, designed to prepare students who have had limited or no music experience for entrance into Music A-15. Required of all students whose music background appears to be insufficient for them to pursue the professional courses with profit. 2 class periods per week. No credit

A-15 Music for the Elementary Grades

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. 2 semester hours

A-16 Teaching Music in the Elementary Grades

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: A-15. 3 semester hours

BUSINESS EDUCATION CURRICULUM**Required Business Courses for All****Business Education Students****B-62 Business Mathematics I**

Review of fundamental arithmetical processes; reconstruction and extension of computational skills; application of arithmetic to accounting; improvement of quantitative reasoning.

3 semester hours

B-63 Business Mathematics II

Practical and social application of arithmetic skills in problem-solving as related to credit and installment buying, selling, investments and savings, insurance, analysis of financial statements, interpretation of statistical data.

2 semester hours

B-64 Typewriting I

Presentation and mastery of the keyboard and operating parts of the typewriter; stroking techniques and control emphasized; personal and simple business letters, centering, tabulation introduced.

2 semester hours

B-65 Typewriting II

Further development of stroking speed and control; diagnostic and remedial instruction emphasized; production of mailable letters, manuscripts, multicopy work, business forms; teaching techniques considered.

2 semester hours

B-66 Accounting I, Elementary

Bookkeeping and accounting for the proprietorship; the bookkeeping cycle; special journals and special ledgers; accrued and deferred items; business papers; personal record-keeping.

3 semester hours

B-67 Business Organization and Finance

Historical background of our modern business system; responsibilities of capital and labor to society; basic tools of managements; the productive process; marketing; finance; competition and risk; business and government relations.

2 semester hours

B-68 Clerical Practice and Office Machines

Fundamentals of operating the dictaphone and memobelt dictation and transcription machines; key driven and rotary calculators; adding and listing machines; mimeograph, and hectograph duplicating machines; filing systems; office procedures; business papers. 3 semester hours

B-69 Business Law I

The nature and classification of the law; courts and court procedure; contracts; agency; negotiable instruments; case studies. 3 semester hours

B-70 Business Law II

Law of business organizations; personal property; security relations; real property; trade regulations. 3 semester hours

B-71 Sales and Retail Selling

Store operation and management; techniques of selling; sales promotion; retail sales training programs, secondary and adult; current trends in retailing. 3 semester hours

B-73 Business Correspondence

Review of essentials of grammar; study of the vocabulary of business; setup of business forms and modern business letters; emphasis on the "you" attitude in the writing of letters of inquiry, response, order, adjustment and letters of application; sales letters; preparation of data sheets. 2 semester hours

B-74 Problems of Secondary Business Education

The purposes of Secondary Business Education; the curriculum and its development; guidance, placement, and follow-up; administration of the business department; physical layout, equipment, and supplies; trends in business education. 3 semester hours

B-75 Methods of Teaching Business Education

Psychological foundations of teaching; methods of teaching general business subjects; basic skill-building procedures; methods of teaching shorthand, typewriting, and bookkeeping; demonstration teaching; lesson planning. 3 semester hours

COURSES REQUIRED IN THE ACCOUNTING SEQUENCE

B-B-82 Accounting II

Further development of the accounting cycle; registers, petty cash, supplementary records, the voucher system; partnership formation operation and simple dissolution; corporation characteristics, formation, accounts and records, handling of surplus, stocks and bonds; departmentalization, branch and elementary manufacturing procedures. 3 semester hours

B-B-83 Accounting III

Modern methods of cost-finding, specific order costs, process costs, standard and estimate costs; accounting for joint products, by-products; evolution and interpretation of cost-finding methods and cost accounting systems. 3 semester hours

B-B-84 Accounting IV

Accounting for consignments, ventures, installment sales; consolidations, mergers, parent and subsidiary accounting; estate, trust, and public accounts; stock brokerage, insurance, other advanced accounting concepts and analyses. 3 semester hours

B-B-85 Accounting V

General procedures involved in the audit; analysis of original records presented by types of accounts, cash, notes and accounts receivable, inventories, advances, fixed and intangible assets, notes and acceptances payable, deferred credits and operating accounts; preparation of reports; practical auditing cases. 3 semester hours

COURSES REQUIRED IN THE STENOGRAPHIC SEQUENCE

B-S-82 Shorthand I

Principles of Gregg Shorthand Simplified completed; development of reading and writing skills; dictation at 50 to 70 words per minute; teaching techniques. 3 semester hours

B-S-83 Shorthand II

Further development of reading skills; fluency of writing and correctness of outlines emphasized; dictation at intermediate

speeds, 70 to 90 words per minute; development of blackboard writing techniques; transcription introduced; teaching techniques stressed. 3 semester hours

B-S-84 Shorthand III (Transcription)

Advanced speed building; sustained dictation at 90 to 120 words per minute on letters, editorials, educational articles, court and congressional matter; transcription skills emphasized. 3 semester hours

B-S-85 Typewriting III (Applications)

Development of job production techniques; vocational competency emphasized in typing cards, letters, envelopes, multiple carbon work, manuscript and literary materials, billing, tabulation, legal forms; stencils and hectograph masters; transcription introduced. 2 semester hours

B-S-86 Secretarial Practice

Theory and practice in common stenographic and secretarial activities; dictation of materials from various types of offices; advanced treatment of business problems, office etiquette; part-time work in school offices. 2 semester hours

COURSES REQUIRED IN THE RETAIL SELLING SEQUENCE*

****B-R-82 Retail Selling II (Advertising)** 3 semester hours

****B-R-83 Retail Selling III (Marketing)** 3 semester hours

****Retail Selling IV (Retail Store Management)** 3 semester hours

B-90 Office Management

Fundamental principles and successful practices used in getting office work accomplished. 3 semester hours

**Courses and descriptions to be set up by each individual school.

*Accounting II required in the Selling Sequence.

EDUCATION

Ed-1—Professional Orientation

An orientation and guidance course acquainting prospective teachers with the opportunities and requirements of the profession; the relationship of the school to society; the organization and administration of the American school system. Extensive directed observation of various schools and learning situations will be required. 3 semester hours

Ed-2—General Psychology

A comprehensive study of the origins, motives, and modifications of human behavior with emphasis on the scientific approval in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to the simpler techniques in psychological experimentation. 3 semester hours

Ed-3—Educational Psychology and Evaluative Techniques

The nature of the learning process with emphasis on the application of the principles of psychology to the problems of learning and teaching. An important aspect to the course is the study of actual classroom problems and procedures by observation of regular work and by special illustrative demonstrations in the laboratory school. Prerequisite: General Psychology. 3 semester hours

Ed-6—Audio-Visual Education

Consideration of the need for sensory techniques and materials in the learning process with attention given to the psychological principles involved. Acquaintance with and achievement of skills in specific techniques, materials, and equipment within his teaching field. Activities will include actual production of material for classroom use and participation in their use. 2 semester hours

Ed-8—Introduction to Philosophy

An introduction to philosophy with emphasis upon current and pertinent problems. An historical survey of the contributions of outstanding ancient and modern philosophies. Especial attention is given to ethical implications. 3 semester hours

Ed-9—Student Teaching and Direction of Student Activities

Observation and participation in all teaching and activities related to the performance of a teacher's work, in the area of the student's specialization. 12 semester hours

Ed-10—Professional Practicum including School Law

Methods and practices of teaching. General techniques of teaching and techniques for the students' special field. Pennsylvania school laws relevant to the work of the classroom teacher. Problems encountered by the students in their student teaching. 2 semester hours

Ed-27—Problems of Secondary Education including Guidance

Consideration of the practical problems of secondary teaching, and organization. Survey of the basic structure and nature of American secondary education emphasizing guidance principles. Prerequisite: Professional Orientation. 3 semester hours

Ed-31—Child Psychology

The development of a functional understanding of the maturation and learning of children from birth to adolescence and the physical growth as related to psychological maturation. The laboratory school is used for the purpose of implementing the basic facts and principles relating to child growth by frequent observation. Prerequisite; General Psychology. 3 semester hours

Ed-90—Mental Hygiene

Problems of personality and mechanisms of adjustment, including a study of the origin and resolution of conflicts, and the role of emotion in the pattern of behavior are studied. Prerequisite: General Psychology. 3 semester hours

Ed-91—Psychology of Exceptional Children

The problems of exceptional or atypical children. The major purpose is to gain a functional understanding of the various types of psychological and physical deviates, both as to the genesis of their behavior processes, their treatment, and the guiding principles involved in their training. 3 semester hours

Ed-92—Public School Organization

This course will study the development of the organization, supervision, and administration of the public schools in the United States. 2 semester hours

ELEMENTARY EDUCATION**EI-Ed-11—Teaching of Reading**

Scientific aspects of reading in the elementary grades. Examination of research in reading, careful study of theory and methods as applied to the modern program, observations in the Laboratory School, recognition of problems of reading, and examination of materials of instruction. 3 semester hours

EI-Ed-12—Teaching of Language

Survey of the content of the curriculum in English in the elementary grades. Methods of teaching oral and written composition, principles of grammar, poetry, and literature. The teaching of handwriting is part of this course. 3 semester hours

EI-Ed-13—Teaching of Children's Literature

An introduction to important children's books, old and new, and techniques for the presentation of book materials. It encourages wide reading of juvenile literature and provides criteria for, and experience in, the evaluation of children's books. 3 semester hours

EI-Ed-14—Teaching of Elementary Science

Methods of presenting science in each grade of the elementary school and with the important scientific facts and principles that should be taught in each grade. Stressed are field work, collection of materials, special techniques and demonstrations to adapt elementary science to local conditions. Elementary science syllabi of several states and cities are studied. Evaluation of elementary science texts and pamphlets now available for each grade. 3 semester hours

EI-Ed--15—Teaching of Social Studies and Geography

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. 3 semester hours

EI-Ed-16—Teaching of Arithmetic

Study of the history and development of our number system. Application of principles of teaching and learning to ex-

perience in numbers with balance of emphasis on social and mathematical phases. Introduction to sequential order of arithmetic recommended for each grade level. Adapt to teaching-learning situations the instructional materials of arithmetic including visual and manipulative devices. 3 semester hours

El-Ed-17—Child Development

Acquisition of understanding and appreciation of the patterns of physical, mental, social, and emotional growth in the period of early childhood. Consideration of local, state, and national agencies concerned with the welfare of education of early childhood. Observation of learning situations in the family, school, and community environments. 3 semester hours

El-Ed-30—Creative Activities in the Elementary School

Consideration of the guidance of children in creative learning and expression. Emphasis upon the child's needs to discover creative interests and upon the development of skills and refinements of taste needed for rich experience in art, music, and literature. 3 semester hours

El-Ed-31—Diagnostic and Remedial Reading

Acquaintance with recent research in the field of reading to acquaint students with problems and needs common to incompetent readers and with the most successful materials and techniques for dealing with such problems. Demonstration and practice in testing, planning, and directing remedial programs with groups and individuals. Prerequisite: Teaching of Reading. 3 semester hours

El-Ed-32—Child Adjustment

Application of the principles of mental hygiene to the problems of elementary school children in home, school, and community; study of special agencies concerned with child welfare; clinics, social agencies, juvenile courts, etc. 3 semester hours

El-Ed-33—Early Childhood Education

The characteristic physical growth, learnings, and influences of environment will be considered for children of early school years. The contributions of the home and the kindergarten as pre-school experiences will be studied. Chief emphasis will center about the education of the child during the first three years of school. Readings, discussions and observations will constitute the work of the course. 3 semester hours

EI-Ed-34 Pre-School Education

A study of the pre-school and kindergarten age-level, of the history, theory and practices of the nursery school and kindergartens, and of appropriate materials and equipment will compose the work of the course through readings, discussions, and observations. 3 semester hours

ENGLISH**E-1—English I**

Review of grammar in detail, analysis of constructions, functional practice, remedial drill in punctuation, spelling, and mechanics of English; vocabulary study. Writing of brief compositions and analysis for structural faults and errors in diction, Library Usage, separate unit additional to English I, is introduction to use of the library taught by a member of the college library staff. 3 semester hours

E-2—English II

Study and application of the laws of composition; methods and types of exposition; description and narration. Paragraph and theme writing; analysis of literary samples; book reviewing; outlining; assembling bibliography. Construction of a research paper. Continued functional practice in mechanics. Prerequisite: English I. 3 semester hours

E-3—Speech I

Study and application of fundamental principles of effective speaking; training in selection, organization, and development of material suitable for speeches; recording and analysis of voice; emphasis on personality adjustment as related to speaking-listening situation; diacritical marking and vocabulary building. 2 semester hours

E-4—Speech II

Continuation of Speech I with special emphasis on group discussion and parliamentary procedure; expository, narrative, and descriptive material; speeches for special occasions; interpretative or choral reading. 2 semester hours

E-5—Literature I

As an introduction to literature, this course is designed to provide opportunities for both wide and extensive reading which

will familiarize students with the development of human thought as it has found expression in the recognized literary masterpieces of all times and peoples from the earliest times to mid-seventeenth century. 2 semester hours

E-6—Literature II

Continuation of Literature I with emphasis upon the literary masterpieces of the last four centuries. 2 semester hours

E-31—Speech Development and Improvement

A continuation of Speech I and II with practical emphasis upon play production and other problems as applied to the public schools. 3 semester hours

E-32—Speech Problems

Acquaintance of students with the various speech problems common to children in the elementary school. Emphasis is placed upon remedial techniques. The study of materials, methods, and techniques used by the classroom teacher in improving the speech of all children. 3 semester hours

E-37—English Literature

English literature is surveyed from Anglo-Saxon times to the present with emphasis on recognized masterpieces. The course has two basic aims: (1) broader knowledge of the growth of English letters and their relation to historic movements, and (2) wider reading and more intelligent appreciation. 3 semester hours

E-38—American Literature

The course is a survey of representative American writings from colonial times to the present. Particular attention is given those writings which best exemplify democratic ideals and national character. 3 semester hours

E-39—Modern Drama

A comprehensive view of the best dramatic literature of the modern American, British, and Continental theatre since 1890 is presented through lectures, discussions, and experiences related to the contemporary stage. 3 semester hours

E-40—English Philology

The course introduces students to the scientific and historical study of the development of modern English and the discernable trends in language today through the use of exercises in phonetics, etymology, and dictionary usage. 3 semester hours

E-41—Advanced Composition

Advanced experience in writing is afforded through the presentation of reviews, digests, and critical reports, employing expository, descriptive, and argumentative techniques.

3 semester hours

E-42—Shakespeare

The work of this course is a study of selected comedies, tragedies, and historical plays by Shakespeare, together with the social, historical, and literary background necessary for their full appreciation. Particular reference is made to those plays most frequently included in the secondary school curriculum.

3 semester hours

E-43—Short Story

The development of the short story as a distinct and popular current literary form is traced through its history and technique. Recent tendencies are investigated and wide reading in current periodicals is encouraged.

3 semester hours

E-44—Contemporary Novel

A study of modern and contemporary movements in fiction based on the critical reading and analysis of English and American novels published since 1870.

3 semester hours

E-46—Contemporary Poetry

An examination of representative poetry published since 1870, in both England and America, provides the basis for a study of forms, aspects, and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life.

3 semester hours

E-47—Victorian Literature

Victorian culture is studied through its interpretation by poets and essayists of the period, with particular reference to the writings of Carlyle, Ruskin, Newman, Browning, and Tennyson.

3 semester hours

E-48—Journalism

The organization's management, and supervision of the content of school publications, the preparation of school publicity materials and the development of journalistic style form the basis of this course through practical participation in journalistic activities. 3 semester hours

E-49—Pre-Shakespearean Literature

A study of the cultural backgrounds of the English-speaking race, its folk-ways, legends, balladry, and history, particularly as reflected in Beowulf, the Arthurian epics, Chaucer, and Spenser. 3 Semester hours

E-50—The Romantic Movement

A study of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and biographical and critical doctrine. 3 semester hours

E-51—The Essay

The history and the development of the essay as a distinctive literary form, together with readings in current periodical non-fiction and provision for opportunities for self-expression through writing. 3 semester hours

E-52—American Poetry

The nature, form, and function of verse as exemplified by representative American poets are examined, with particular reference to social backgrounds and national ideals. 3 semester hours

E-53—The Novel to 1870

A study of the rise and development of the novel in English from its predecessors of the eighteenth century to Hardy and Mark Twain. A selected list of novels is assigned for analysis with a view of cultivating student appreciation of this dominant literary form. 3 semester hours

E-54—Eighteenth Century Literary

A critical consideration of significant eighteenth-century writers with emphasis upon the struggle between tradition and revolt as reflected in the works of Pope, Johnson, Addison, Swift, Goldsmith, Burns, and other representative writers of the period. 3 semester hours

E-55—American Prose

A study of the development of national ideals as expressed by representative prose masterpieces, with extensive critical reading in current periodicals as well as intensive study of great works of the past. 3 semester hours

E-56—Recent Trends in Teaching English

The content of language-arts, requirements of the secondary schools is reviewed, with special reference to grade-placement and adaptation of materials, appraisal of results, and the development of programs of study. Directed observation in the laboratory school is frequently employed. 3 semester hours

GEOGRAPHY**G-1—World Geography**

A basic course organized to develop a knowledge and appreciation of the physical factors of the environment, and man's adjustment to them. World Patterns of land forms, climate soils, vegetation, etc., are emphasized in relation to their influence on the economic and cultural activities of man. 3 semester hours

G-11—Geography of Pennsylvania and the United States

An analysis of population, land utilization, production and trade, through a comprehensive study of the relations between the physical factors of the environment and man. The first part of the course deals with Pennsylvania, and through its economic position within the States, proceeds logically to an analysis of the nation as a whole and its world relations. Prerequisite: World Geography. 3 semester hours

G-40—Geography of the United States and Canada

A regional study of the United States and Canada, considering man's adjustment to the physical factors of relief, climate, soil, vegetation, and mineral resources. Political structure, and the relations between the two countries and the rest of the world, are analyzed from a geographic point of view. Prerequisite: World Geography. 3 semester hours

G-41—Geography of Latin America

A comparative study of the geographical regions of Middle and South America. The Latin American relations with the

United States and the rest of the world are interpreted through an analysis of the economic, social, and cultural activities of man in relation to the physical factors of his environment. Prerequisite: World Geography. 3 semester hours

G-42—Geography of Europe

A regional course designed to develop unbiased understanding of the economic problems of Europe. Geographic relationships underlying land utilization, boundary disputes and dominant international problems are considered. The Soviet Union is not included in this course. Prerequisite: World Geography. 3 semester hours

G-43—Geography in Asia

An economic study of the major geographic regions of the Soviet Union, Southwestern Asia, and India. Special emphasis is placed on the recent cultural and political changes in the area and the significance of these changes to the world economy. Prerequisite: World Geography. 3 semester hours

G-44—Climatology and Meteorology

A systematic study of the climate regions of the world and the advantages and limitations of each for man's occupance. The physical aspects of the atmosphere, and the regional characteristics of climate are investigated. The course analyzes the laws and underlying principles of atmospheric change. An opportunity is afforded the student to become familiar with the common weather instruments, to observe and record weather data to read and interpret weather maps, and to consider the problems of aviation growing out of atmospheric conditions. Prerequisite: World Geography. 3 semester hours

G-45—Physiography

A study of the physical phenomena as dynamic forces affecting man. The content of the course consists of a systematic study of land forms, their origin and the forces that produced them, soils, minerals, water resources, and their effect on man. Prerequisite: World Geography. 3 semester hours

G-46—Conservation of Natural Resources

A study of the utilization of the nation's resources in order to analyze the need for conservation, the problems of conservation, and to investigate suggested methods for the prevention of waste. The resources of land, water, plant and animal life, mineral resources, and man are considered. 3 semester hours

G-48—Economic Geography

A study of the activities whereby man makes a living. World production in agriculture, forestry, mining, and manufacturing; distribution of population; and world trade are considered and the knowledge acquired is applied to an interpretation of world problems. The course furnishes a background for greater understanding of national and international affairs. 3 semester hours

G-49—Trade and Transportation

A study of world trade and the resulting major transportation routes with their associated ports, railroad centers, and contributing hinterlands. Consideration is given to the location factors of cities, roads, railroads, sea routes, air lanes; and to the problems of the modern cities and the tendency for decentralization. 3 semester hours

G-50—Geography of Pennsylvania

A regional analysis of Pennsylvania, emphasizing man's cultural and economic response to environmental factors. Special attention is given to the resources of the state, analyzing their extent, their use, the need for well directed conservation, and the regional planning program of the Commonwealth. Field trips are an integral part of the course. Prerequisite: World Geography and the Geography of Pennsylvania, and the United States.

3 semester hours

G-51—Geographic Influences in History

A study of the relations between the natural environment and the historical movement of man. The course emphasizes the influence of coasts, islands, rivers, mountains, vegetation, and soil in the exploration and the settlement of the United States and in the expansion of the American people from a small nation to a great world power. Prerequisites: World Geography and Geography of the United States.

3 semester hours

G-52—Geography of Africa and Australia

A regional study of Africa, Australia, and the neighboring islands of the Pacific, showing the social and economic development of these lands in relation to their physical environment. The political affiliation of these lands, the geographic aspects of the problems of colonies, land tenure, race, and the significance of strategic location and production are considered. Prerequisite: World Geography.

3 semester hours

G-53—Geography of the Far East

A study of Japan, China, the Phillippines, Southeastern Asia, and the East Indies. Factors of the natural environment and man's adjustment to them economically, socially, and politically, are investigated. Problems of low standards of living, conservation of resources, wider use of resources, and industrialization are considered. Prerequisite: World Geography. 3 semester hours

G-54—World Problems in Geography

A political geography. Attention is given to boundary problems, the value and control of colonies, fishing agreements, problems concerning commercial aviation, world trade, world food supplies, control and development of natural resources, and the geographic aspects of problems concerning world peace. Prerequisite: World Geography. 3 semester hours

G-55—Geology

A study of the surface forms, composition, and structure of the earth. Emphasis is placed on the agencies which are continually at work altering the earth's surface forms, the classification and interpretation of rocks, and the evolution of life. Prerequisite: World Geography. 3 semester hours

G-56—Teaching Geography in Secondary Schools

A survey of available materials and current curricula in the field of geography form the basis for an analysis of modern techniques in the teaching of geography. Emphasis is placed on the importance of geographic thinking in the interpretation of national and international problems, acquisition of good habits for citizenship, analysis of text books and courses contributing to these objectives. 3 semester hours

G-61—Economic Geography (Business Education Curriculum)

This course combines the principles basic to a classification of climatic types with a study of the variations of natural vegetation soils, minerals, etc. of these regions. The diverse products of the regions so studied form the background for a consideration of foreign and domestic commerce and the responsibility in the economic planning for world peace. 3 semester hours

G-62—Commercial and Industrial Geography

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. 3 semester hours

HEALTH AND PHYSICAL EDUCATION

The Department of Health and Physical Education provides facilities in archery, badminton, baseball, basketball, football, hiking, hockey, quoits, shuffleboard, soccer, soft ball, swimming, table tennis, tennis, track, volley ball, and water polo. Provision is made for teaching the necessary skills in these athletic activities, and a program of intramural contests in these games is maintained. While the college has no liability for physical injury in the athletic program, every effort is made to protect the student.

A uniform costume for physical education is prescribed for all students. This costume may be obtained after enrollment at the college and shall be worn for physical education classes.

HEd-1, 2, 3—Physical Education I, II, and III

The purpose of these courses is to help students attain a high degree of physical fitness and to grow in mental and emotional fitness through a program which includes seasonal sports, rhythms, folk dances, swimming, gymnastics, and recreational games.

1 semester hour

HEd-4—Health

This course acquaints students with systems of the body as to structure, function, care, and diseases. In a broad sense they acquire the health knowledges, understanding, and attitudes which will enable them to meet the health responsibilities in college, home and community. Part of the semester is devoted to the National Red Cross Standard First Aid Course.

2 semester hours

HEd-5—Teaching of Health and Physical Education

In physical education the activities suitable for grades one to six are presented. The methods of teaching the activities to boys and girls of these grades is stressed. In health education the information necessary for background, the methods of teaching health as an integrated subject in the modern school program, and the health of the teacher himself are studied. Student teaching opportunities are offered.

2 semester hours

FOREIGN LANGUAGES**F-40 and 41—French I and II**

The basic elements of French pronunciation and grammar are presented, with especial emphasis on the oral-aural aspects of the language. Reading selections are so chosen that they will give students a sympathetic understanding of France and her people. The course aims at making French a living language which students will be able to use in their own life situations. Records and tape-recorder are used to enable students to attain a good pronunciation. 6 semester hours

F-42 and 43—French III and IV

This course continues the work of elementary French. A thorough review of the fundamentals of French grammar and pronunciation is made. The oral-aural techniques is emphasized, with continued use of records and tape-recorder. Reading material is chosen from selections of literary and cultural value. 6 semester hours

F-44—Survey of French Literature I

This course provides a rapid survey of the development of French literature from its origin up to the middle of the eighteenth century. A study of the various literary types and ideas is made with readings of several original works. 3 semester hours

F-45—Survey of French Literature II

This course is a continuation of French 44. It begins with a study of the development of French literature from the middle eighteenth century and goes up to the present time. Original works are analyzed and studied. 3 semester hours

F-46—Advanced French Language and Techniques

This course provides a thorough review of advanced grammar and composition. The work is based upon the needs of students as discovered in their written composition. Techniques of teaching a foreign language are studied and evaluated. 3 semester hours

F-47—French Classical Drama

A study of the classical drama from its origin to its full blooming is made. Special emphasis is placed on the masterpieces of Moliere, Corneille and Racine. 3 semester hours

F-48—French Literature of the 19th Century

A study of the origins and development of romanticism and realism in French literature is made. Readings from 19th century dramatists, novelists and poets are studied. 3 semester hours

F-49—Development of the French Novel

A study of the novel, its origin and development is offered. The most important novels of each period are read and discussed. 3 semester hours

F-50—French Civilization

This course develops an understanding of modern France through a study of the factors that have produced the French nation and its civilization. It stresses the geography, history, arts, sciences, music and literature. 3 semester hours

F-51—Advanced French Conversation

Everyday spoken French and training in the organization of material for conversation form the basis of this course. 3 semester hours

SPANISH**Sp. 40 and 41—Elementary Spanish I and II**

The basic elements of Spanish pronunciation and grammar are presented, with special emphasis on the oral-aural techniques of the language. Reading selections are chosen to give students a picture of Spanish life and culture as found both in Spain and in Spanish-America. The aim of the course is to make Spanish a living and useful language for students and one which they will be able to use in their own experiences. Records and tape-recorders are used. 6 semester hours

Sp. 42 and 43—Intermediate Spanish I and II

A thorough review of the fundamentals of Spanish grammar and pronunciation is made. Reading material is chosen from the literature of Spain and Spanish America. Emphasis is placed on the aural-oral technique. Records and tape-recorder are used. 6 semester hours

Sp. 44—Introduction to Spanish Literature

This course offers a rapid survey of the history of Spanish literature with emphasis on the development of literary types and ideas. Reading of representative authors is made. 3 semester hours

Sp. 46—Spanish Conversation

Everyday spoken Spanish and training in the organization of material for conversation form the basis for this course.

3 semester hours

Sp. 47—Advanced Spanish Conversation

Everyday idiomatic spoken Spanish with special attention to peculiar expressions is the basis for this course. Remedial work on pronunciation of students is done.

3 semester hours

Sp. 48 and 49—Spanish-American Literature I and II

A survey of the history and development of the literature of Spanish American countries is made. A study of the various types and ideas is made by reading from the original works of representative authors.

6 semester hours

Sp. 50 and 51—Contemporary Spanish Drama I and II

A study of types of modern drama is made with readings of several representative plays.

6 semester hours

Sp. 52—Commercial Spanish

Business letters and practices in correlation with the work of the business Education Department form the basis for this course.

3 semester hours

GERMAN**Gr-40 and 41—Beginning German I and II**

This course is intended primarily for those students wishing to acquire a reading knowledge of German. The basic elements of the structure of the language are presented with particular stress on vocabulary building and reading. Reading selections are taken from a science reader as well as modern short stories. The purpose of the course is to equip students with necessary basic German needed to pursue graduate work. 6 semester hours

MATHEMATICS**M-27—Fundamentals of Mathematics**

Development of the number system; and application of the fundamental processes; extensions of the number system to include common and decimal fractions and negative numbers; approximate nature of measurements; per cents; languages of algebra including formulas, graphs, tables, and equations; meaning of proof; elementary concepts of statistics; are of indirect measurement; additional topics of interest to students.

3 semester hours

M-40—College Algebra

Fundamental operations, factoring; fractions; exponents; functions and their graphs; linear, quadratic, and systems of equations; proportion and variations; progressions; mathematical induction; logarithms; determinants; permutations and combinations. Prerequisites: 1 year high school algebra and 1 year high school geometry.

3 semester hours

M-41—Trigonometry

Functions of an angle; logarithms; use of tables; radians; identities; trigonometric and exponential equations; solution of triangles by natural functions and logarithms; inverse functions; complex numbers; application in practical problems.

3 semester hours

M-42—Analytic Geometry

Correlation of algebra and geometry in finding equations of loci and loci corresponding to certain equations; properties of the straight line, the circle and conic sections; rectangular and polar coordinates; transformation of coordinates; parametric equations; a brief introduction to three dimensions. Prerequisites: College Algebra and Trigonometry.

3 semester hours

M-43—Calculus I (Differential)

Elementary concepts of limits; the derivative; applications of the derivative to maxima and minima, rates, velocity, acceleration; introduction of integration as the inverse of differentiation. Prerequisite: Analytic Geometry.

3 semester hours

M-44—Calculus II (Integral)

Integration as the inverse of differentiation; formulas of integration; the definite integral; methods of integration; integration as the limit of a sum applied to areas, volumes, lengths of curves and other practical problems. Prerequisites: Differential Calculus. Differential and Integral Calculus may be taught as a unified course. 3 semester hours

M-45—Statistics

Basic principles and methods of statistics common to scientific research; understanding of and ability to use graphs, frequency distributions, measures of central tendency and dispersion; normal curve; correlation; regression and prediction; reliability of statistical measures; curve fitting; development of formulas. 3 semester hours

M-46—Advanced College Algebra

Theory of equations; determinants; partial fractions; series; complex numbers; further development of permutations; combinations and probability. Prerequisite: College Algebra I. 3 semester hours

M-47—Synthetic Geometry

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. 3 semester hours

M-48—History of Mathematics

Study of the growth of mathematics through the centuries and the men who contributed to it, enrichment of the mathematical background of students; integration of basic areas of mathematics. Prerequisite: Analytic Geometry. 3 semester hours

M-49—Field Work in Mathematics

Mathematics applied to the enrichment of secondary school mathematics. Use of the transit, angle mirror, hypsometer, sextant, and other measuring instruments; simple map making exercises and elementary surveying; construction and use of student made instruments and teaching devices. 3 semester hours

M-50—Spherical Trigonometry and Navigation

Solution of the right and oblique spherical triangles with emphasis on their practical application, especially in the field of navigation. 3 semester hours

M-51—Calculus III

A continuation of the calculus to include series, additional work in partial differentiation, multiple integrals, and elementary differential equations. Prerequisite: Integral Calculus. 3 semester hours

M-52—Mathematics of Finance

Introduction to elementary theory of simple and compound interest with solution of problems in annuities, in sinking funds, amortization, installment buying, mathematics of life insurance. 3 semester hours

M-56—Teaching of Mathematics in the Secondary School

Place and function of mathematics in secondary education; content and the improvement and evaluation of instruction in mathematics; acquaintance with current literature and research; observation in secondary schools. Prerequisite: 9 hours of college mathematics. 3 semester hours

S C I E N C E**Biology****Bi-41—Botany I**

Botany I is a study chiefly of the flowering plants. Topics include the anatomy of life processes of plant cells, leaves, stems, roots, flowers, seeds, and fruits. The economic importance of plants used by man and the recognition and classification of the seed plants in the immediate environment of the college are included. 4 semester hours

Bi-42—Botany II

Botany II is concerned primarily with the non-flowering plants. It considers both the anatomy and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. The economic importance and health implications of certain of these groups are emphasized. The recognition and classification of the non-flowering plants of the immediate surroundings are stressed. Prerequisite: Botany I. 4 semester hours

Bi-43—Zoology I

This is a study of the life history, habits, origin, development, physiology and anatomy of each phylum of the invertebrates. Emphasis is given to the study of those forms of economic importance to man or with health implications. The student becomes acquainted with the many invertebrate species found locally. 4 semester hours

Bi-44—Zoology II

This course is a study of the Chordata in general, and more particularly the classes of Vertebrates. Topics studies include the anatomy, physiology, origin, development and life history of representative members of each class. Special attention is given to the vertebrates found in the vicinity of the college. Prerequisite: Zoology I. 4 semester hours

Bi-45—Ecology

This course is a study of plants and animals in relation to their physical and biological environments. Special topics include distribution, factors affecting distribution, life zones, food chains, and adaptations. Attention is given to plant and animal communities in Pennsylvania. Individual problems may be assigned. Prerequisite: 6 hours of Biology. 3 semester hours

Bi-46—Entomology

A general study of insects is made in this course, including structure, physiology, economic importance, classification and relationships. Each student is required to participate in field trips and to complete a project including a collection and report on some group of insects. Prerequisite: Zoology I. 3 semester hours

Bi-48—Vertebrate Anatomy

Amphioxus, the shark and the cat or rabbit are made the central points of study in this work. The various systems are studied with emphasis upon the comparative relationships; physiology is made a factor in the work. 3 semester hours

Bi-49—Genetics

The purpose of this course is to give the student an understanding of the laws of inheritance as they operate in plants, animals, and humans. Cell structure, Mendelian inheritance,

eugenics, linkage, probability, crossing over, and random assortment are all considered. Prerequisite: 6 hours of Biology.

3 semester hours

Bi-50—Parasitology

This course considers the anatomy, physiology, life history, and habits of representative parasites of man and his domesticated animals. Means of prevention, detection, and control are emphasized. Special attention is given to those forms likely to be encountered in the area of the college. Prerequisites: Zoology I and II.

3 semester hours

Bi-51—Field Botany

This course emphasizes taxonomy. Common names of many plants found in the community are studied, and the scientific names. Phyla are studied and the family characteristics of the most common flowering plants are made a feature. Considerable emphasis is given the ecological aspects of plant groups.

3 semester hours

Bi-52—Field Zoology

Field and laboratory studies of the animal life of this region are made.

3 semester hours

Bi-53—Physiology

The purpose of this course is to give the student a general background of how animals carry on bodily processes and a more detailed knowledge of human physiology. Related anatomy is taught as needed. Prerequisites: Zoology I and II.

3 semester hours

Bi-54—Field Biology

Field Biology attempts to give students in biology a wide contact with the natural history of the area. It serves as an introduction to common types of plants and animals from the various phyla found in south central Pennsylvania. Thus, the student with a major in biology should not graduate without knowing a little of the flora and fauna of this region through first-hand experience out of doors supplemented by study in the laboratory.

3 semester hours

Chemistry

Ch-41—Inorganic Chemistry I

This course includes a chemical study of the structure and behavior of matter. Topics stressed in the first semester are the gas laws, solutions, valence, ionization, acids, bases, oxidation and reduction as well as the writing of equations and solving of problems. 4 semester hours

Ch-42—Inorganic Chemistry II

This is a course in a continuation of Inorganic Chemistry I and stresses the more fundamental concepts of non-metals, metals, atomic structure, the periodic classification of elements, and simple qualitative tests for cations and anions. Prerequisite: Inorganic Chemistry I. 4 semester hours

Ch-43-44—Quantitative Analysis I and II

This is an introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrometric methods of analysis. Practice in stoichiometry, careful manipulation of apparatus, and accurate analysis is stressed. 7 semester hours

Ch-45—Organic Chemistry I

This course is an elective for those who plan to major or minor in chemistry. It includes a study of the hydrogen compounds of carbon of the aliphatic series with emphasis on structural relationships and nomenclature as well as on uses and characteristic properties. Prerequisite: Inorganic Chemistry. 4 semester hours

Ch-46—Organic Chemistry II

This course is a continuation of Organic Chemistry I. It deals primarily with the amines and proteins and those compounds belonging to the aromatic series. Both micro and semi-micro techniques are employed to stress the properties and type reactions of the usual classes of organic compounds. Prerequisite: Organic Chemistry I.

Ch-49—Biological Chemistry

This course includes the chemistry of proteins, fats, carbohydrates, minerals, and vitamins, and the biological functions of

each. Digestive and metabolic changes are studied by laboratory tests and animal feeding experiments. Prerequisite: Organic Chemistry I. 3 Semester Hours

Ch-51—Physical Chemistry

This course is an introduction to the fundamental principles of theoretical chemistry with application in the solution of problems and training in the techniques of physical-chemical measurements. The following topics are included; phase rule, properties of solutions, liquids, solids, gases, surface tension, vapor pressures, osmotic pressures, chemical cells, buffers, indicators, oxidation-reduction potentials, and conditions affecting chemical equilibria. Prerequisites: Inorganic Chemistry and Physics I and II. 3 semester hours

PHYSICS

Ph-41—Physics I

This is an introductory course in mechanics, heat, and sound. Some of the topics studied are the mechanics of solids, liquids, gases, thermometry, calorimetry, and heat transference, the production and nature of sound waves including musical sounds.

4 semester hours

Ph-42—Physics II

This is a continuation of Physics I and an introductory course in magnetism and electricity. Some topics discussed are reflection, and refraction, optical instruments, spectra and interference. The portion devoted to electricity and magnetism deals with the general concepts of magnetism electrostatics, electrical circuits, generators, motors, and alternating currents.

4 semester hours

Ph-43—Mechanics

This is an intermediate course in mechanics of solids, liquids, and gases. An opportunity is provided for a deeper insight into the principles in operation and their practical application. Studies are made of rectilinear and circular motion, work and energy, impulse and momentum, simple harmonic motion, and hydrostatics. Emphasis is placed on qualitative considerations. Prerequisites: Physics I and II.

4 semester hours

Ph-44—Magnetism and Electricity

This is an advanced course in general electricity and magnetism. The electric magnetic fields, D.C. and A.C. circuits, capacitance, inductance, electromotive force and electrical instruments are among the topics developed. Prerequisites: Physics I and II.

4 semester hours

Ph-45—Electronics

This is a course dealing with the electron, inducing the charge, emission, and velocity of the electron. The fundamentals of vacuum tubes and their circuits and the use of tubes in communications and industry are studied. Prerequisites: Physics I and II. 3 semester hours

Ph-46—Heat

This is an intermediate course in heat. The basic concepts and principles are developed more intensively in the study of properties of gases and in thermodynamics. Some of the specific topics studied are temperature measurements, expansivity, specific heats, thermal conductivity of solids and liquids, thermal properties of gases, change of phase and heat engines. Prerequisites: Physics I and II. 3 semester hours

Ph-47—Physical Measurements

This is a course in the study of various precision measuring devices. The principles of operation and practical uses are emphasized. Some instruments used are the vernier caliper, micrometers, sphereometers, cathemeter, micrometer microscopes, pressure gauges, audimeters, sextants, jolly balances, photometer, spectrometers, potentiometers, ballistic galvanometers, and oscilloscopes. Prerequisites: Physics I and II. 3 semester hours

Ph-48—Modern Physics

This is a study of twentieth century physics. The course includes the development in thermionics, x-rays, and radioactivity. Considerable attention is given to the modern concepts of atomic structure together with the mechanisms of release of atomic energy and its subsequent utilization. 3 semester hours

OTHER SCIENCES**BS-1—Basic Biology**

This course deals with the principles of Biology Topics including cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and man's interrelationship with his biological environment. The classification of plants and animals is reviewed briefly. 3 semester hours

PS-I—Basic Physical Science

This course utilizes the field of earth science and astronomy to provide a broadened background of science. The nature and uses of energy is the central theme for the study of heat, light, chemical, electrical, and atomic energy. Emphasis is placed on the methods and the thinking of scientists in recognizing and solving problems. 3 semester hours

S-II—Science for the Elementary Grades

This course following the year of basic science, is designed to provide the elementary teacher with a more adequate background for teaching science in the elementary school. Units or problems are selected to achieve this purpose which cut across various fields of science. Emphasis is placed upon developing resourcefulness in gathering data and using the scientific method in the solution of such problems. 3 semester hours

S-27—Science in Modern Civilization

This course is designed to acquaint the secondary student with some of the major discoveries of science in all fields and the effects of discoveries upon man's way of life. Emphasis is placed upon developing an understanding of science and its implications. Discoveries leading to more abundant supplies of energy, discoveries contributing to better health and longer life, more rapid transportation, to a more abundant and better food supply, better housing, better clothing and to greater destructive potential are some of the topics developed. 3 semester hours

S-56—Teaching of Science in the Secondary School

This course is planned to give the prospective science major a thorough grounding in the problems of teaching Science. The objectives of the science program in the secondary school. The objectives of the science program in the secondary school, selection of textbooks, sources of suitable literature, how to secure materials for instruction, the preparation of units, and special techniques are studied. Prerequisite: 12 hours of work in major field. 3 semester hours

SOCIAL STUDIES**HISTORY****World Culture I and II**

A survey of the evolution of man's culture — his governmental, economic, social, religious, intellectual, literary and aesthetic activities — from the beginnings of the race to the present time. 5 semester hours each semester

SS-1—History of Civilization I

A study of origin and development of political, economic, social and religious institutions which have contributed to modern civilization. This course covers broad movements in the evolution of world cultures to the middle of the seventeenth century. 3 semester hours

SS-2—History of Civilization II

A continuation of SS-1 with emphasis on the revolutionary developments of the nineteenth and twentieth centuries. It attempts to give the student a clear understanding and appreciation of our great heritage from the past. 3 semester hours

SS-5—History of the United States and Pennsylvania I

This general course traces the political, economic and social developments of the American people from colonial beginnings through the Civil War and Reconstruction. Pennsylvania's place in the story is emphasized. Some attention is given to biography and to intellectual movements. 3 semester hours

SS-6—History of the United States and Pennsylvania II

A continuation of SS-5 dealing with the period 1865 to the present. Stress is placed upon the impact of the Industrial Revolution on American society. America's recent rise to world power is carefully traced. 3 semester hours

SS-41—History of the United States since 1900.

This is an advanced course stressing the recent economic, social and cultural developments of the American people. It traces the growth of the city and the developments of our economy, and deals with the diverse effects of these forces upon American life and thought. Prerequisites, History of the United States and Pennsylvania I and II. 3 semester hours

SS-42—History of Europe since 1815

This course is a basic survey of the political, economic and social forces which have been at work in Europe in its entirety and within the states as individual units. It attempts to study and interpret those forces in such a manner as to offer a background for the understanding of the European scene today and its relation to present world affairs. Prerequisite: SS-I and SS-II. 3 semester hours

SS-43—Twentieth Century World History

A study of those movements which constitute the modern world: the evolution of nationalism; the challenge of socialism, communism and facism to liberal democracy and representative constitutional government; the decline of imperialism; and the struggle for international order. These and others are subjects for study with illustrative material drawn from the history of national states. Prerequisites: SS-I and SS-II. 3 semester hours

SS-44—History of Pennsylvania

A history of the development of Pennsylvania from its founding to the present. Study is made of the political, economic and social developments in each period of its history. Special attention is given to the diversity of its people, their institutions and problems and the growth of Pennsylvania to a leading position in our industrial society. 2 or 3 semester hours

SS-45—History of the Middle East and India

A study of the contributions of the various civilizations that developed these areas to both oriental and occidental cultures. Special emphasis is placed on the recent role of these people in world affairs and in international problems. Prerequisites: SS-I and SS-II. 3 semester hours

SS-46—History of England

Emphasizes those contributions which England has made to Western Civilization: the fusion of parliamentary government, civil liberties and monarchy; the evolution of a colonial empire into a Commonwealth of nations; the transition from an agrarian economy through merchant and industrial capitalism to the present socialist order: and the social background of English literature. Prerequisites: SS-I and SS-2. 3 semester hours

SS-47—History of the Far East

The important historical developments and cultural achievements of the Orient, including China, India and Japan, are surveyed to provide an understanding of recent events there. The modern relations of Eastern Asia with Europe and America are traced, and the results of this impact upon both civilizations are studied. Prerequisites: SS-I and SS-II. 3 semester hours

SS-48—History of Latin America

This course surveys the development of the Latin American countries from the period of discovery to the present. The economic, social, political and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. Present day problems are stressed.

3 semester hours

SS-49—Diplomatic History of the United States

A survey of American foreign relations from the Revolutionary War period to the present with emphasis on the diplomacy leading to America's recent world leadership. Special attention is given to factors determining our foreign policies, such as influences from abroad, the American press and public opinion and special interest groups. Prerequisites: SS-5 and SS-6.

3 semester hours

SS-50—International Relations 1919 to the Present

A course dealing with twentieth century developments of the national state, regional pacts and international organizations, and at the same time with imperialism, power politics and intensified warfare. Attention is given to the changing status of international law and courts and to the conduct of diplomacy. Such problems are studied as human rights, refugees, minorities and conflicts between opposing cultural economic and ideological groups. Prerequisite: SS-6 or SS-42 or SS-43.

3 semester hours

SOCIAL SCIENCE**SS-3—American Government**

An introductory course stressing the fundamental principles of American Constitutional Government. Emphasis is placed upon the evolutionary development of our government from a simple one of an agrarian economy into a complex one with economic, social and political functions in an industrial society. Political parties, elections, citizenship, and civil liberties are carefully considered.

3 semester hours

SS-51—Principles of Economics

Fundamental principles of economics are stressed along with the relationship of the economic organization and its principles to the student as an economic individual. Attention is given to the principles involved in such individual interests as market practice, credit buying, housing investments and insurance.

3 semester hours

SS-52—Contemporary Economic Problems (Continuation of SS-51)

The general economic organization and behavior of our society is examined in such fields as money and banking, foreign trade, corporations, agriculture, public utilities and public finance. Emphasis is placed on the broad social effects of economic conditions today and on economic measures for the general welfare. Prerequisite: SS-51. 3 semester hours

SS-54—Comparative Government

A comparative study of the principles, forms and functions of democratic, fascist, and communist governments. Such subjects as political parties and electoral systems, legislative representation, federalism, constitutional order, bureaucracy and dictatorship are examined in this functional and comparative manner. Prerequisite: SS-3. 3 semester hours

SS-55—Municipal Government

A study of the organization and functions of government on the local level with particular attention paid to local government in Pennsylvania. State-local and national-local relations are stressed. 3 semester hours

SS-56—Teaching of the Social Studies in the Secondary School

A course designed to acquaint the prospective teacher of social studies with the philosophy of the field, curriculum preparation and materials, and recent methods and techniques. Course outlines, preparation of teaching units, testing and visual aids are stressed. 3 semester hours

SS-57—Principles of Sociology

This is a basic course in sociology which deals with fundamental sociological concepts including the meanings and functions of culture and the origin, functions and characteristics of the basic social institutions. Some emphasis is placed upon the causes and nature of social disorganization. 3 semester hours

SS-58—Contemporary Social Problems

A sequel to SS-57. This course is concerned with the more pertinent problems which grow out of social change and maladjustment. Among the specific problems studied are family conflict, populations, race conflict, industrial conflict, poverty, crime and delinquency. 3 semester hours

SS-59—Home and Family Living

This course deals with the development of the family and the home in their historical, economic, social and legal aspects. The various factors affecting the organization of the family are considered, as well as the modern trends in the basic institution.

3 semester hours

SS-60—World Economic Problems

This is a general survey course in the principles practices and problems of world economics. It deals with world population, natural resources, trade, capital organization and investment, financial mechanisms, and current world conditions. Emphasis is given to the historical background which is essential to the student's understanding of current development.

3 semester hours

SS-61—Economics I

This course in the Business Curriculum is equivalent to SS-51.

3 semester hours

SS-62—Economics II

A continuation of SS-61, this course is equivalent to SS-52.

Prerequisites: SS-61.

3 semester hours

ALUMNI

In eighty-two years of its existence, Shippensburg has graduated approximately 6,000 students from its various curriculums. Many of these graduates are engaged in the teaching profession throughout Pennsylvania and are well represented in many other states. Approximately 3,000 of these graduates have received a Bachelor of Science degree at this institution since 1927.

The Alumni Association meets regularly each year during the commencement season. Representatives of the Association in various parts of the service area form an Alumni Advisory Council which constitutes a contact with the college. The Alumni Advisory Council meets at the annual Homecoming each fall. The Alumni Executive Committee meets each spring on Alumni Day.

Organized units of the Alumni Association are active in many sections of the State, including the counties of Adams, Blair, Cumberland, Franklin, Perry, and York as well as districts centered in Harrisburg, Lewistown, Philadelphia, Pittsburgh, and Shippensburg. There is also an active association in Hagerstown, Maryland, and Washington, D. C.

GENERAL ALUMNI ASSOCIATION

<i>President</i>	J. Clyde Ziegler—1910
<i>First Vice-President</i>	Robert Bloom—1936
<i>Second Vice-President</i>	Sara E. Drake—1928
<i>Secretary</i>	Myra C. Esh—1926
<i>Treasurer</i>	Erma K. Rolar—1918
<i>Assistant Treasurer</i>	Paul Cauffman—1932

ALUMNI EXECUTIVE COMMITTEE**Term Expires Alumni Day 1954**

Blanche Stoops '21	Ardmore, Pa.
Robert Beard '38	Chambersburg, Pa.
Jay Fickes '49	Dover, Del.

Term Expires Alumni Day 1955

Paul E. Shull '23 and '32	Waynesboro, Pa.
Jesse S. Heiges, '91	Collegeville, Pa.
Paul S. Lehman, '21	Lewistown, Pa.

Term Expires Alumni Day 1956

Monroe S. E. Gobrecht '20	Landisburg, Pa.
George Briner '01	Carlisle, Pa.
Mrs. Chester Eastep '36	Shippensburg, Pa.

ALUMNI ADVISORY COUNCIL

<i>High School</i>	<i>County</i>	<i>Alumnus</i>
Altoona	Blair	Byron Ashburn Frank Mastrocola Cyril Ramsey Katherine Antes Paul E. Mowary Russell Roddy L. V. Stock
Bedford	Bedford	Mrs. Carl Hambricht
Belleville	Mifflin	Sara E. Drake
Biglerville	Adams	William Earp
Burnham	Mifflin	Charles Lehman
Camp Hill	Cumberland	Robert Beard
Carlisle	Cumberland	Kenneth Gabler Ida Heller John Harris John Neeley
Chambersburg	Franklin	William Shearer Elmer W. Gruver
Cheltenham Township	Montgomery	Mrs. Cora Eby Geiss
Darby	Delaware	Claude Larimer George Inskip
Dry Run	Franklin	Robert Kochenour
East Berlin	Adams	Charles Gentzler G. W. Lefever
Elizabethville	Dauphin	Charles I. Raffenperger
Everett	Bedford	William Conrad
Fairfield	Adams	Robert F. Leshner
Fanettsburg, Metal Twp.	Franklin	
Gettysburg	Adams	
Greencastle	Franklin	
Hagerstown, Md.		
Harrisburg		
William Penn	Dauphin	W. Alexander McCune
William Penn	Dauphin	Charles H. Ebner
John Harris	Dauphin	Guy Shumaker
Hershey	Dauphin	A. Sterling King
Highspire	Dauphin	Tyrell Robinson
Hollidaysburg	Blair	Griff Jones, Jr.
Huntingdon	Huntingdon	Mrs. Frank W. Maggill
Johnstown	Cambria	Jerry F. Trostle
Landisburg	Perry	Monroe S. E. Gobrecht
Lansdowne	Delaware	Roy Kraber
Lebanon	Lebanon	Harvey Bolan
Lemasters	Franklin	Jacob Brake
Lemoine	Cumberland	Catherine Hubley
Lewistown	Mifflin	Calder Geedy Samuel Shearer Paul Hurley
Loysville	Perry	C. R. Coyle
Lykens	Dauphin	W. Michael Weader
McClure	Snyder	Harold Welsh
McConnellsburg	Fulton	Claude Mellott Richard Kitzmiller
McVeytown	Mifflin	Dean W. Brumbaugh
Martinsburg	Blair	McClay Kelly
Mechanicburg	Cumberland	Charles Sheilds
Mechanicburg	Cumberland	Estella Whitmore
Mercersburg	Franklin	S. A. Johnson
Middletown	Dauphin	

<i>High School</i>	<i>County</i>	<i>Alumnus</i>
Mifflintown	Juniata	Myra Rodgers
Millersburg	Dauphin	Richard Fralick
		Gertrude Shuler
Mount Union	Huntingdon	Lola Pheasant Weyant
		Mrs. Joseph Shapiro
New Bloomfield	Perry	Jesse Snyder
		Ralph Swan
New Cumberland	Cumberland	Charles Slaybaugh
New Oxford	Adams	Charles Taylor
Newport	Perry	George Sollenberger
Newville	Cumberland	C. E. Hassler
Penbrook	Dauphin	Adam Hoover
Petersburg	Huntingdon	Henry J. Stoudt
Port Royal	Juniata	Mrs. E. L. Beaver
Quincy	Franklin	Roger C. Mowrey
Reedsville	Mifflin	Homer Dean
Roaring Spring	Blair	Mrs. Chalmer E. Sell
Robertsdale	Huntingdon	Hazle Angle
Saltito	Huntingdon	Mrs. Louisa Cornelius
Saxton Liberty	Bedford	Rose McCahan
Schellsburg	Bedford	John W. Miller
Scotland Orphans School	Franklin	Robert Maclay
Sharon Hill	Delaware	Helen M. Hefner
Shippensburg	Cumberland	Harper Wentz
		S. L. Daihl
		James Gibboney
Steelton	Dauphin	Frank Yeingst
		Charles Hoerner
St. Thomas	Franklin	Richard McCurdy
Progress	Dauphin	Winifred Kitchen
Swatara Twp., Oberlin	Dauphin	John Roddick
Twin Rocks	Cambria	William C. Nenninger
Tyrone	Blair	Willard Kerr
Warfordsburg	Fulton	Gordon Charlton
Washington Township	Franklin	Walter Lehman
Waynesboro	Franklin	Glenn Lehman
		George Bitner
Williamstown	Dauphin	Clayton C. Vogel
Wrightsville	York	Elizabeth Reeder Nispel
Yeagertown	Mifflin	Gerald Woomer
York	York	Anna Mary Melhorn
		Benjamin Nispel
		Tom Schade
York Springs	York	Mrs. Wimbart Neely

ROSTER OF STUDENTS

1953-54

- Acker, Carolyn L., New Cumberland
 Adams, Pauline C., Spring Run
 Adams, Robert L., Tower City
 Ahlers, Ronald O., Carlisle
 Aikens, Woodrow E., Harrisburg
 Allan, Kathryn A., Shippensburg
 Allan, K. Douglas, Shippensburg
 Allan, Sally J., Camp Hill
 Allcorn, David K., Orbisonia
 Allcorn, Shirley Todd, Orbisonia
 Anderson, Marylou, Falls Church, Virginia
 Angelucci, Andrew N., Harrisburg
 Angle, E. Ann Brown, Shippensburg
 Appleby, Anne A., Mt. Union
 Aurand, Dale K., Lewistown
 Baer, Justin F., Chambersburg
 Bahn, William M., Glen Rock
 Baker, Doris G., Rouzerville
 Baker, Floyd A., Spring Run
 Baker, Jack A., Shippensburg
 Barbush, Donald C., Harrisburg
 Barclay, Gail L., Somerset
 Barnhart, Beverly A., Hanover
 Barton, Mary J., Hustontown
 Baumgardner, H. A., Jr., Lewistown
 Beard, Kenneth E., Harrisburg
 Beard, Roberta A., Waynesboro
 Beauchamp, Gordon L., Chester
 Beltz, Betty Swanger, Newburg
 Bender, Nancy A., Gettysburg
 Benner, Donna M., Burnham
 Benner, Joan R., Lewistown
 Benner, Phyllis L., Middleburg
 Bensing, Philip G., Carlisle
 Berkstresser, Clifford E., Laidig
 Berzansky, Paul, Wood
 Bickel, Donald E., Enola
 Biddle, Glanard L., Hanover
 Bitner, Joanne L., Chambersburg
 Bittle, Joanne M., Harrisburg
 Bivens, Mary A. McConnellsburg
 Blair, Dolores M., Aliquippa
 Bock, Lois Shank, Shippensburg
 Bollen, S. Frederick, Harrisburg
 Bollinger, Frederick G., Hanover
 Bonitz, John A., Windber
 Bookwalter, Sara E., Newport
 Boozel, Janet C., Shippensburg
 Boretos, Pauline A., Harrisburg
 Bowen, Susan L., York
 Bowen, F. Joan, Chambersburg
 Bowling, James M., Waynesboro
 Bowling, R., Larrv, Waynesboro
 Bowman, A. Winifred, Mercersburg
 Boyd, Bertha Peffer, Carlisle
 Boyd, Donald A., Newville
 Boyer, Melva C., Carlisle
 Brake, John C., Mercersburg
 Brandt, Dana P., Newville
 Brenneman, Orr N., Mt. Holly Springs
 Bressler, George D., Wilmerding
 Bretz, William G., Carlisle
 Brickner, Gloria A., Harrisburg
 Brown, Ethel F., North East, Md.
 Brown, John W., Altoona
 Brubaker, Reva Hoback, Shippensburg
 Brubaker, Ronald C., Shippensburg
 Brumbaugh, Fred D., Martinsburg
 Bryant, Mary R., Prospect Park
 Bull, Jacquelyn E., York
 Burkholder, Naomi K., Newville
 Burkert, S. Joyce, Lewistown
 Burkett, Kenneth M., Coalmont
 Burnheimer, Charles F., Altoona
 Butts, William D., Shippensburg
 Cable, Nancy J., Shippensburg
 Cain, Fred E., Penns Grove, N.J.
 Calhoun, Roxee L., Huntingdon
 Cameron, Nancy M., Oreland
 Campbell, Estella M., Shippensburg
 Carbaugh, Margaret M., Chambersburg
 Cauffman, Elizabeth A., Shippensburg
 Chait, Hyman, Hackensack, N.J.
 Champion, Helen L., Lemoyne
 Charlton, D. Joanne, Warfordsburg
 Cherry, George W., Jr., Philadelphia
 Chomas, Theodore R., Elizabeth
 Cialone, Jean J., Robertsdale
 Cisney, Joretta J., Shippensburg
 Claypool, Roy C., Revloc
 Cleary, Nancy A., Aldan
 Clever, Dorothy A., Shippensburg
 Clopper, Donald L., Waynesboro
 Clouse, Lee A., Newville
 Clouse, Madeline J., Newville
 Clouser, Ronald A., Williamstown
 Coble, Wanda E., York
 Colston, Vicki I., York
 Connor, John M., Aliquippa
 Cook, C. Leland, Tunkhannock
 Cooper, Charlotte P., Harrisburg
 Corney, Beverly A., York
 Coulson, William L., Carlisle
 Creager, Max E., Waynesboro
 Creamer, Joseph R., Chambersburg

- Creasey, Helen A., Wormleysburg
 Creasey, Richard G., Wormleysburg
 Creavey, Joan Nesbitt, Dillsburg
 Crimm, Ronald E., Havertown
 Crouse, Richard J., Waynesboro
 Croyle, Louise L., Alexandria
 Cutchall, Robert R., Big Cove
 Tannery
 Daddario, James D., Lewistown
 Daniels, Joalto R., York
 Davidson, Jay F., Shippensburg
 Davis, Barbara A., Alexandria
 Davis, Vera Cook, Fayetteville
 Defibaugh, Donald L., Defiance
 Denner, Francis E., Norristown
 Detwiler, John W., New Enterprise
 Devaric, Robert J., Steelton
 DiDonato, Alfred H.,
 Hackensack, N. J.
 Diehl, Nancy J., Mann's Choice
 DiEsposti, John Jr., Harrisburg
 Diggs, Gwendolyn Owens,
 Shippensburg
 Dillen, Chester L., Bellwood
 Dinterman, Ralph R., Waynesboro
 Dissinger, Joann E., East Berlin
 Dixon, Janice M., Mercersburg
 Donaldson, Glendyr G., Mt. Union
 Downing, Dorene, Lewistown
 Drake, F. Ruth, Lewistown
 Dunlap, Cleonie E., Shippensburg
 Dunmire, William H., Shippensburg
 Dunn, Shirley M., Mifflintown
 Dymond, John B., Fayetteville
 Ebersole, Elaine F., Altoona
 Eby, Iona R., Elizabethville
 Eckard, M. Nelson, Lewistown
 Ehlman, Dorothy J., Biglerville
 Eigenbrode, Richard D., Waynesboro
 Eisenhower, Frank L., Jr., Newburg
 Ellis, Raymond, Philadelphia
 Engle, Wanda J., Amaranth
 Epply, John W., Plainfield
 Eshenour, Caroline G., Greason
 Evans, Robert W., Hampton
 Failor, Donna K., Mechanicsburg
 Failor, James C., Lemasters
 Farner, Pauline Stake, Orbisonia
 Farrell, Anna M., Burnham
 Feather, John R., Gettysburg
 Felton, Bonnita M., Breezewood
 Ferraris, Medea M., Shippensburg
 Filibovitz, Dolores E., Security, Md.
 Finkenbinder, Ronald L., Lemoyne
 Fisher, Ida M., Clearville
 Fisher, Robert L., Harrisburg
 Fogelsonger, Barbara A.,
 Chambersburg
 Foose, Gerald L., Shippensburg
 Forrester, Eleanore G., Scotland
 Forrester, Laura J., Scotland
 Fortna, Anna L., Shippensburg
 Fowler, Robert H., Bellwood
 Frank, David S., Chambersburg
 Freeland, John R., Harrisburg
 Freet, S. Emory, Duncannon
 Frushour, Gladys V., Chamberburg
 Funk, Genevieve, Harrisburg
 Garner, Roger L., Saxton
 Gaston, Gloria M., Shippensburg
 Gearhart, Dale L., Greencastle
 Geedy, Josephine R., Lewistown
 George, Kenneth L., Robertsdale
 Gerdes, Richard M., Harrisburg
 Gettel, Jean A., Shippensburg
 Gibboney, Anna Curry,
 Shippensburg
 Gingerich, Lois E., York
 Glatts, George F., Chester
 Gleim, Ellen H., Shippensburg
 Gleim, Lillian D., Shippensburg
 Glunt, William C., Shippensburg
 Graf, Nancy A., Camp Hill
 Graham, Keith D., Lemoyne
 Graybill, S. Ann, York
 Green, Doris A., Chambersburg
 Green, James E., Harrisburg
 Greenawalt, Gilbert L., Waynesboro
 Greenholt, Shirley Feeser, Hanover
 Grimes, Percy A., Palmyra, N.J.
 Gross, Nelda M., Thomasville
 Grubb, Anna M., Williamstown
 Gruver, Martha L., Harrisburg
 Gunnet, John A., Spring Grove
 Gutbub, Ruth M., Cornwall
 Guver, Jay F., Hollidaysburg
 Hafer, Susanne M., Shippensburg
 Hagyard, John H., Phillipsburg
 Hake, Donald J., Laurel
 Hall, E. Jane, Biglerville
 Hall, James E., Orrtanna
 Hall, Sandra C., Orrtanna
 Hammann, Carol L., Carlisle
 Hancock, Eleanor E., Altoona
 Handshaw, M. Joann, Shippensburg
 Harbach, Anna M., Carlisle
 Harclerode, Jack E., Everett
 Harper, Albert S., Levittown
 Harpster, Joanne E., Warriors Mark
 Harbster, Mary A., Hollidaysburg
 Hartman, Carol E., Martinsburg
 Hassler, Carolyn M., Chambersburg
 Hauck, Richard H., Mechanicsburg
 Haugh, Gerald E., York
 Havens, Oakley P., Williamsburg
 Havice, Shirlev A., Jewistown
 Hawk, Kenneth L., Hanover
 Hawn, Ruth E., Petersburg
 Havs, Herbert E., Jr., Shippensburg
 Heberlig, Edgar S., Newville

- Heberlig, Jack C., Newville
 Heberlig, Joanna B., Newburg
 Heefner, Theodore C., Jr.,
 Chambersburg
 Heefner, Lowell C., Scotland
 Helman, Thomas R., Marion
 Hench, Robert R., New Bloomfield
 Henderson, Martha L., Alexandria
 Hengst, Harold W., Bedford
 Henry, Barry L., Manheim
 Henry, Bertram V., Shippensburg
 Herr, Edwin L., Carlisle
 Hess, Barbara A., Waynesboro
 Hess, Nancy L., Waynesboro
 Hess, Shirley A., Lewistown
 Hickman, Shirley, West Chester
 High, Jack C., Chambersburg
 Highlands, Kenneth E., Newburg
 Hill, Gale V., York
 Hill, Jane L., Warren
 Hock, Ruth E., Shippensburg
 Hockersmith, Lauretta J.,
 Shippensburg
 Hoffman, Eleanor L., Enola
 Hoke, June M., York
 Hooper, Shirley L., Todd
 Hoover, B. Anne, Wrightsville
 Horner, Phyllis R., Harrisburg
 Hrubovcak, George A., Aliquippa
 Hummel, Patricia M., Carlisle
 Hutchison, James F., Philadelphia
 Hykes, William O., Shippensburg
 Iannucci, Lewis, Bristol
 Ingels, Charles R., Waynesboro
 Irwin, Carol A., Carlisle
 Jackson, James P., Altoona
 James, Richard L., Hanover
 Jenkins, Geraldine L., Defiance
 Johnston, Joan B., Waynesboro
 Jones, Kathryn B., Aldan
 Jones, Lois A., Shermans Dale
 Jones, Nancy A., Shermans Dale
 Judge, John A., Camp Hill
 Justice, Jeanne E., Hollidaysburg
 Karam, Mary Louise V.,
 Cortland, N. Y.
 Katz, Marvin M., Harrisburg
 Keach, Patricia A., Dover
 Keller, Willis, Bellwood
 Kelly, Richard C., Mt. Union
 Kennedy, Stanton R., York Springs
 Kercheval, William C., Waynesboro
 Kerchner, I. Marie, Mifflin
 Keyes, Sterling S., Atlantic
 Highlands, N.J.
 Kidd, Ralph F., Mt. Union
 King, Nancy A., Espy
 King, Norma H., Shippensburg
 Kister, Kenneth F.,
 New Cumberland
 Klenzing, W. Joanne, Chambersburg
 Kline, Joanna R., Lewistown
 Kline, Margaret Y., Harrisburg
 Kling, Janet L., York
 Kling, Wilbur J., Shippensburg
 Klinger, James H., Harrisburg
 Klinger, Josephine E., Sunbury
 Klock, Beverly J., York
 Knapp, Beverly A., Harrisburg
 Knepp, John E., McVeytown
 Knox, Mary Jane T., York
 Koehler, Barbara A., Harrisburg
 Kohler, Joseph F., Chambersburg
 Koons, Helen L., State Line
 Koontz, Irene M., Littlestown
 Koppenhaver, Catherine P.,
 Millersburg
 Koser, Rudolph R., Camp Hill
 Kosier, Gladys L., Lykens
 Kostukovich, Richard J.,
 Philadelphia
 Kretzing, Donald R., Shippensburg
 Kyner, Jayne A., Chambersburg
 Laderach, Joan C., Kinzers
 Lane, Roger V., Todd
 Lash, Stark W., Lewistown
 Lauer, William C., Tamaqua
 Lease, Mary K., York
 Lebo, Harold R., Millersburg
 Leeper, Glenda F., Mifflintown
 Leese, Dale F., Hanover
 Lefever, Melvin E., Lancaster
 Lehman, Wilmer R., Chambersburg
 Leonhard, Ronald R., Duncannon
 Lewis, Jane E., Carlisle
 Limes, Dawn Keiser, Lewistown
 Lindsey, Lloyd J., Carlisle
 Linsky, Marilyn C., Shippensburg
 Lloyd, Donald W., Aliquippa
 Lohr, Kenneth V., Jr., Camp Hill
 Long, Jacqueline S., Camp Hill
 Long, Lester D., Wood
 Lory, Esther S., York Springs
 Love, Frank B., Shirleysburg
 Ludwig, Catherine M.,
 Chambersburg
 McCardle, Dollie F., Lewistown
 McCarthy, Raymond A., Saint Clair
 McClellan, Donna M., Harrisburg
 McCracken, Phillip F., Harrisburg
 McDermott, John J., Chambersburg
 McDevitt, James L., Pottstown
 McGaughney, Patricia A., Media
 McKinnon, John C., Lewistown
 McLamb, Larrie H., Jr., Steelton
 McLaughlin, Shirley R., Fort Loudon
 McMullen, Helen L., Shade Gap
 Maclay, Lucy K., Shippensburg
 Margaro, Louise M., Harrisburg
 Magill, Kenneth D., Shippensburg

- Mahoney, Norabel, Altoona
 Manigian, George S., Drexel Hill
 Manning, Thomas W.,
 Atlantic City, N. J.
 Markley, John T., Bellwood
 Marsh, Fred L., Hanover
 Martin, Blake E., Chambersburg
 Martin, Edith K., Gettysburg
 Martin, Janet A., Shippensburg
 Martin, Joan E., State Line
 Martin, Lee G., Leacock
 Martz, Mary A. Knodsville
 Martz, Richard W., Enhaut
 Masemore, Ira G., Lewistown
 Mason, Mary C. E., Gettysburg
 Matthews, Patricia L., Harrisburg
 Maurer, Albert I., Shippensburg
 Maurer, Ronald L., Tremont
 Meade, Maureen G.,
 Bradley Beach, N. J.
 Meck, Richard, Six Mile Run
 Melius, Melvin E., Carlisle
 Mell, Nancy L., Carlisle
 Mercurio, Frank S., Lemoyne
 Metcalf, J. Lorraine, Greencastle
 Miller, Barbara Anne, Harrisburg
 Miller, Charles L., Millersburg
 Miller, James F., Bellevernon
 Miller, James K., Carlisle
 Miller, John R., Carlisle
 Miller, Joyce D., Altoona
 Miller, Judith E., Gordonville
 Miller, Larry G., Juniata, Altoona
 Miller, LaVonda J., Concord
 Miller, Ronald D., Gettysburg
 Minick, Glenn S., Newburg
 Minick, Harry N., Newburg
 Minnick, Harry D., Mt. Union
 Monn, Jeanne E., Fayetteville
 Moore, Edward C., Philadelphia
 Moore, Gary C., Union Deposit
 Moore, Nelson R., Aliquippa
 Moore, Rhoda E., Waynesboro
 Moreland, Blanche E., York
 Morgart, Donald T., Roaring Spring
 Morrow, Bertha I., Newburg
 Moser, Gerald L., Waynesboro
 Mozloom, John A., Saint Clair
 Murdock, George W., Pittsburgh
 Murphy, Paul S., Mechanicsburg
 Murray, Doris L., Franklinton
 Mver, Teresa A., Bareville
 Mvers, Eileen J., New Oxford
 Mvers, Marian L., Huntsdale
 Nailor, Doris M., Newville
 Neadv, Frances A., Waynesboro
 Nearhoff, Edward O., Bellwood
 Nenninger, Nancy E., Belsano
 Nicholson, Robert E., Shippensburg
 Noel, W. Theodore, Shippensburg
 Nolan, Fredith E., Newburg
 Northcraft, Audrienne L., Artemas
 Nugent, Edward J., Philadelphia
 Nye, Jack G., Shippensburg
 Osman, Richard E., Harrisburg
 Paige, Janice N., Milroy
 Palmer, Paul G., Mann's Choice
 Parker, Eugene C., Altoona
 Parks, Kim A., Altoona
 Patterson, Joan E., Carlisle
 Pearl, Robert W., Waynesboro
 Pearson, Nathan P., Phillipsburg
 Perry, Jane A., Lemoyne
 Persiponko, Joseph, Williamstown
 Pescuma, Gayle Thursh, Hanover
 Peters, Gerald F., Scotland
 Peters, Norman E., Chambersburg
 Peters, P. William, Fayetteville
 Peters, S. Jane, Burnham
 Pettenati, Delphine F., Altoona
 Picciallo, Michael, Hackensack, N.J.
 Picking, John C., Marion
 Picking, Ralph H., Chambersburg
 Piper, Mona L., Petersburg
 Plack, Annabelle R., Harrisburg
 Plasha, Russell, Saint Clair
 Polesky, Fred P., Bentleyville
 Potter, Shirley A., Shippensburg
 Powell, Edward E., Chambersburg
 Purcell, Beulah Hutchinson,
 Lewistown
 Raffensperger, Donna E., Camp Hill
 Raffensperger, Shirley J., Camp Hill
 Ramper, Barry S., Robertsdale
 Reber, Rav W., West Reading
 Reed, G. Walter J., Altoona
 Reed, Herbert, Jr., Atlantic
 Highlands, N. J.
 Reed, Marjorie I., Alexandria
 Reeder, Marcia N., Yeagertown
 Reese, Dorothy W., Plainfield
 Reese, Robert E., Hanover
 Reichard, Glendora E., Waynesboro
 Rensburg, Barbara R.,
 Sharpsburg, Md.
 Renn, Kathryn E., Harrisburg
 Replogle, James R., New Enterprise
 Rhen, Mary Ann, Pine Grove
 Rhodes, Charles F., Mt. Union
 Rice, B. Joan, Landisburg
 Rice, James F., Altoona
 Rice, Robert E., Narberth
 Richardson, Margaret L., Newville
 Ricketts, Janet L., Havertown
 Rigaux, Huzette J., Shippensburg
 Rion, Kail C., Levittown
 Robbins, Marguerite N.,
 New Cumberland
 Roberts, Carol A., Summerdale
 Robertson, A. Susan, Doyleburg

- Robinson, Mary J., Carlisle
 Rock, Ronald L., Greencastle
 Rodemaker, Mary Ann, Duncannon
 Rohland, Clyde G., Jr., Harrisburg
 Roll, Franklin D., Mt. Union
 Ross, Ernest J., Robertsdale
 Rowen, John E., Harrisburg
 Rozycki, Joan C., Sunbury
 Rummel, Nancy Stumpff, Lewistown
 Runkle, Jeanne L., Harrisburg
 Runkle, Margaret E., Lewistown
 Rupert, Gary D., Chambersburg
 Ruppert, Shirley R., Dover
 Sanderson, Kay L., New Bloomfield
 Satterfield, James A., Saxton
 Satterfield, Rebecca A., Hopewell
 Sauter, C. Frank, Shippensburg
 Saylor, Carl L., Lewistown
 Scheetz, William M., Harrisburg
 Schell, Virginia L., Lemoine
 Schmidt, James M., Bellwood
 Schubauer, Selma V., Harrisburg
 Seilhammer, Richard L.,
 Chambersburg
 Sgrignoli, Irene E., Mechanicsburg
 Shaeffer, Robert M., Harrisburg
 Shambaugh, Phyllis J., Carlisle
 Shanholtz, Huberta C., Lemoine
 Sheaffer, Ronald M., Lewistown
 Shearer, Joan E., Spring Run
 Shears, Marian M., Gettysburg
 Sheetz, Nancy C., Blairsville
 Sherbine, Marlin C., Portage
 Sherkel, Judith L., Camp Hill
 Shewell, Richard D., Glen Rock
 Shildt, Mary C., Taneytown, Md.
 Shippey, Ned W., Mann's Choice
 Shoeman, Ernest K., Camp Hill
 Shoener, Barbara A., Chatham, N.J.
 Shriner, Fred L., Newburg
 Shuman, Robert L., Chambersburg
 Shumate, James M., Aliquippa
 Shuss, E. Alice, Breezewood
 Simcox, Nancy A., New Cumberland
 Sifers, Clayton J., Bellwood
 Sload, Joyce E., Harrisburg
 Smith, Beverly A., Waynesboro
 Smith, Florence W., Shippensburg
 Snare, Ellis J., Saxton
 Snoke, Margaretta A., Chambersburg
 Snyder, Dorothy B., Chambersburg
 Snyder, Gerald L., Greencastle
 Snyder, Richard E., Hagerstown, Md.
 Spahr, Preston H., Jr., Chambersburg
 Spangler, Elizabeth A., York
 Stankus, Donald P., Uniondale
 Starner, Loline E., Gardners
 Statler, James O., State Line
 Staub, Vera M., Mechanicsburg
 Steele, William T., Mechanicsburg
 Stenger, Melvin B., Jr., Mercersburg
 Sterner, Virginia M., York
 Stevens, Edward A., Dauphin
 Stewart, Billy L., Amberson
 Stewart, John R., Altoona
 Steikell, Doris E., Chambersburg
 Stine, Dorothy A., Mechanicsburg
 Stock, Laura R., Littlestown
 Stoner, Marilyn J., Mechanicsburg
 Stoner, Nancy A., Harrisburg
 Stouffer, Thomas G., Greencastle
 Strausner, Marjorie F., Mont Alto
 Strohecker, Jacqueline, Pottsville
 Strohm, Joan C., Shippensburg
 Stull, Jean Hess, Waynesboro
 Sullivan, William R., Waynesboro
 Sutton, Millicent L., Camp Hill
 Sunderland, Ray T.,
 Newton Hamilton
 Swartz, Elva E., Harrisburg
 Swartz, Edwin E., Carlisle
 Swartz, Harold W., Loysville
 Sykes, Jack M., Harrisburg
 Taksen, Arnold, Harrisburg
 Tarras, Kathleen C., York
 Teitrick, Suzanne E., Carlisle
 Tenley, Carol L., Defiance
 Thompson, Gloria L., E. Waterford
 Thrush, Jeanne E., Hanover
 Timmons, Jesse D., Newport
 Tolbert, Rodney N., Chambersburg
 Tolbert, Sharee A., Chambersburg
 Trail, Margaret L., Flintstone, Md.
 Tribit, Donald K., Springfield
 Trueblood, Cecil R., Hollidaysburg
 Ulrich, Hershel R., Harrisburg
 Ventresca, Benito P., Philadelphia
 Verdier, Harry B., Mont Alto
 Verdier, Joseph N., Waynesboro
 Waggoner, Keith A., Mechanicsburg
 Wagner, Virginia A., Annville
 Wallace, Dorothy A., Bellwood
 Wallace, Marie R., Wellsville
 Wallace, Richard E., Reading
 Wasson, John L., Tyrone
 Wasson, Barbara A., Tvrone
 Waters, Sara J., Burnt Cabins
 Watson, Lynn A., Waynesboro
 West, Nancy A., Minersville
 Weaver, Dorothy L., York
 Weaver, Gladys A., Saxton
 Webber, Hazel I., Chambersburg
 Weikert, Stanley M., Littlestown
 Wert, Donna L., Spruce Creek
 Wertz, Larry R., Lewistown
 Weston, C. Jane, Orbisoma
 Whisler, Connie J., Harrisburg
 Whire, Dolores G., Langdondale
 Whitfield, James R., Chambersburg
 Whitsel, Donald R., Lewistown

- Whitsel, Warren D., Shirleysburg
Williams, Gracie M., Gettysburg
Williams, Mary A., Lewistown
Williamson, Palmer H.,
Shippensburg
Wilson, Joan L., Warriors Mark
Wilson, Vesta P., Greencastle
Winemiller, Marian L., York
Wingert, Patricia J., Chambersburg
Winters, Darrell J., Dallastown
Wise, Barbara A., Spring Grove
Wolfe, John P., Shiremanstown
Wolford, H. Jolene, Chambersburg
Wood, Joanne S., West Chester
Wrightstone, Robert L.,
Shiremanstown
Wright, Joyce A., Millerstown
Wyerman, Donald G., Hollidaysburg
Wynkoop, Marilyn E., Narberth
Yeager, Frank E., Hollidaysburg
Yeakel, Mary H., Pottsville
Yoskowitz, Selma, Asbury Park, N.J.
Young, Sidney D., Palmyra, N.J.
Zechman, Ronald E., Shippensburg
Zimmerman, Carolyn Glassmyer,
Lemoine
Zimmerman, Dorothy B.,
Chambersburg
Zimmerman, H. Elizabeth,
Harrisburg
Zimmerman, Roberta, Lemasters
Zinobile, P. Joseph, Mt. Union

TENTATIVE CLASS 1954

- Adams, Robert L.
 Allan, Kathryn A.
 Berkstresser, Clifford E.
 Bivens, Mary A.
 Bonitz, John A.
 Bonsell, Mary Wise
 Bowen, F. Joan
 Boyd, Bertha P.
 Brake, John C.
 Brown, John W.
 Bryant, Mary R.
 Bull, Jacqueline E.
 Burkett, Annabel Powell
 Burkholder, Naomi K.
 Burnheimer, Charles F.
 Campbell, Estella M.
 Campbell, Patricia Magee
 Carbaugh, Margaret M.
 Champion, Helen L.
 Charlton, D. Joanne
 Cherry, George W.
 Chomas, Theodore R.
 Clopper, Donald L.
 Cook, E. Leland
 Creasey, Richard G.
 Cutshall, Robert R.
 Daddario, James P.
 Daihl, Robert E.
 Davidson, Jay F.
 Davis, Vera Cook
 Defibaugh, Donald L.
 Diehl, Nancy J.
 Diehl, Kathryn Wagaman
 Diggs, Gwendolyn Owens
 Dissinger, Joann E.
 Downing, Dorene
 Drake, F. Ruth
 Ellis, Raymond
 Engle, Wanda J.
 Epply, John W.
 Evans, Robert W.
 Farrell, Anna M.
 Felton, Dorothy G.
 Filipovitz, Dolores E.
 Finkenbinder, Ronald L.
 Fisher, Robert L.
 Fitz, Virginia Walck
 Fogelsonger, Barbara A.
 Fortna, Anna L.
 Frank, David S.
 Freeman, Barbara Gorsuch
 Fuller, Alvin W.
 Gerdes, Richard M.
 Gettel, Jean A.
 Graf, Nancy M.
 Green, Doris A.
 Gutub, Ruth M.
 Hafer, Suzanne M.
 Hall, Sandra C.
 Hamsher, M. Ruth
 Hancock, Eleanor E.
 Hawn, Ruth E.
 Hays, Herbert E., Jr.
 Haugh, Gerald E.
 Heller, Elizabeth Ditchburn
 Henderson, Martha L.
 Hess, Barbara A.
 Hess, Nancy L.
 Hissong, J. Faust
 Hoover, B. Anne
 Horner, Phyllis R.
 Jaymes, Althea Stains
 Jenkins, Geraldine L.
 Jones, Lois A.
 Kates, Mary Helfrich
 Keller, Willis
 Kercheval, William C.
 Klenzing, W. Joanne
 Klinger, Josephine E.
 Klock, Beverly J.
 Laderach, Joan C.
 Lauer, William C.
 Limes, Dawn Keiser
 Linsky, Marilyn
 McCann, John E.
 McClelland, Frank T.
 McMillen, Fern M.
 Mackey, Martha Coble
 Madden, Lois A.
 Magaro, Louise M.
 Mahoney, Norabel
 Martin, Blake E.
 Martin, Janet A.
 Martin, Lee G.
 Miller, Barbara Ann
 Miller, Ellen R.
 Miller, Joyce D.
 Minick, Harry N.
 Monn, Jeanne Deardorff
 Peterson, Eleanor Love
 Pettenati, Delphine F.
 Polesky, Fred P.
 Raffensperger, Donna E.
 Reed, Marjorie I.
 Reichard, Glendora E.
 Replogle, James R.
 Richardson, Margaret L.
 Rigaux, Huguette
 Ross, Ernest J.
 Rowan, John E.
 Rummel, Nancy Stumpff
 Scaglione, Steve

Schubauer, Selma V.
Shambaugh, Phyllis J.
Shaul, Robert K.
Shearer, Joan E.
Sherkel, Judith L.
Shuman, Robert L.
Sload, Joyce E.
Slothower, Gertrude Wonders
Smith, Beverly A.
Spangler, Elizabeth A.
Staub, Vera M.
Stenger, Melvin B., Jr.
Stewart, Gerald E.
Steillman, Ruth H.
Stitzel, Mary Clevenger
Stoner, Marilyn J.

Stoner, Nancy A.
Strausner, Marjorie F.
Stull, Jean Hess
Sunderland, Ray T.
Sutton, Millicent L.
Thompson, Gloria L.
Ulrich, Hersheul R.
Wagner, Virginia A.
Wallace, Dorothy A.
Walters, Hazel F.
Weaver, Gladys A.
Wilkinson, Elinor Perreida
Wynkoop, Marilyn E.
Yeager, Frank E.
Yeakel, Mary H.
Zeger, Kathryn Downing

GRADUATES OF 1953

<i>Name</i>	<i>Address</i>	<i>County and State</i>
Adams, Kenneth J.	3006 Bedford St., Johnstown	Cambria, Pa.
Allison, James J.	R. D., Belleville	Mifflin, Pa.
Amato, Domenica R.	116 S. Penn St., York	York, Pa.
Anderson, Stanley E.	209 Harrison Ave., Avalon 2	Allegheny, Pa.
Angle, Dolly L.	R. D. 2, Mercersburg	Franklin, Pa.
Angle, Jacque D.	431½ W. King St., Shippensburg	Cumberland, Pa.
Appleton, Helen M.	10 Virginia Ave., R.D. 1, Langhorne	Bucks, Pa.
Arnold, Edith O.	1126 S. Homewood Rd., Charlestown	West Virginia
Bellas, Edward A.	Colver	Cambria, Pa.
Blackburn, Joanne R.	R. R. 1, Sidman	Cambria, Pa.
Blake, Edwin W.	516 N. Juniata St., Hollidaysburg	Blair, Pa.
Brehm, Joan Oiler	33 Parsonage St., Newville	Cumberland, Pa.
Brown, Richard V.	197 Coldbrook Ave., Chambersburg	Franklin, Pa.
Broyles, Kenton H.	309 S. Church St., Waynesboro	Franklin, Pa.
Burgess, Carolyn Mills	401 S. Jefferson St., Mt. Union	Huntingdon, Pa.
Bushey, Archie L., Jr.	R. 1, Spring Grove	York, Pa.
Callen, Matthew, III	243 Maclay St., Harrisburg	Dauphin, Pa.
Carlson, Carl A.	108 W. Market St., Williamstown	Dauphin, Pa.
Chapparone, Anthony L.	1518 Vonkirk St., Philadelphia	Philadelphia, Pa.
Claar, Francis P.	201 Walnut St., Hollidaysburg	Blair, Pa.
Clevenger, Paul D.	R. D. 2, Newville	Cumberland, Pa.
Clouser, Louise A.	418 S. 13th St., Harrisburg	Dauphin, Pa.
Cockley, William H.	926 Wilson Avenue, Chambersburg	Franklin, Pa.
Coleman, Murdock W.	432 Vine St., Elizabeth	New Jersey
Coleman, Richard N.	Beaver Springs	Snyder, Pa.
Corkle, William I.	345 E. Fort St., Shippensburg	Cumberland, Pa.
Craft, James E.	Box 76, York Haven	York, Pa.
Cressler, Mary Ann	R. D. 3, Shippensburg	Cumberland, Pa.
Davis, H. Eugene	Blandburg	Cambria, Pa.
Davis, J. Bruce	Walnut St., Reedsville	Mifflin, Pa.
Deardorff, Lucille A.	R. R. 1, Fayetteville	Franklin, Pa.
DeShong, Donna J.	McConnellsburg	Fulton, Pa.
Dillard, D. Brooke	R.D. 6, Carlisle	Cumberland, Pa.
Duncan, David	67½ Garber St., Chambersburg	Franklin, Pa.
Erdman, Marie M.	Gratz	Dauphin, Pa.
Feather, James R.	119½ Chambersburg St., Gettysburg	Adams, Pa.
Fisher, David S.	Mann's Choice	Bedford, Pa.
Flick, William C.	226-22nd Avenue, Altoona	Blair, Pa.

<i>Name</i>	<i>Address</i>	<i>County and State</i>
Forcellini, Lindbergh C.	1062 Second St., Nanty Glo,	Cambria, Pa.
Frye, Marjorie A.	8 W. Main St., Mechanicsburg	Cumberland, Pa.
Fuhrman, Lowell K.	R. D. 1, Hanover	Adams, Pa.
Fullerton, Garnett A.	R. D. 2, 67 Elmdale Drive, Ruthfred Acres, Bridgeville	Allegheny, Pa.
Garling, William I.	18 W. King St., Shippensburg	Cumberland, Pa.
Geyer, James R.	Star Route, Lurgan	Franklin, Pa.
Glee, Evelyn R.	McConnellsburg	Fulton, Pa.
Griffin, Patricia Hursh	8 E. Big Spring Ave., Newville	Cumberland, Pa.
Gross, Harry E.	R. R. 2, East Berlin	Adams, Pa.
Gross, Mary W.	Box 165, Dauphin	Dauphin, Pa.
Group, Mary L.	318 N. Stratton St., Gettysburg	Adams, Pa.
Grove, Richard K.	213 E. Fifth Ave., Altoona	Blair, Pa.
Guss, Susanne J.	20 S. Third St., Mifflintown	Juniata, Pa.
Hahs, Shirley C.	20 Albert Ave., Alden	Luzerne, Pa.
Hargleroad, John M.	R. D. 2, Chambersburg	Franklin, Pa.
Harpster, Harry R.	Pearl St., Reedsville	Mifflin, Pa.
Hatchell, Marjorie M.	211 Verbeke St., Harrisburg	Dauphin, Pa.
Hauber, Frederick W.	1551 Simpson Ferry Road, New Cumberland	Cumberland, Pa.
Heistand, Barbara Radel	120 Huston Ave., Penbrook, Harrisburg	Dauphin, Pa.
Hepner, James J.	317 E. Orange St., Shippensburg	Cumberland, Pa.
Hess, Regina L.	R. D. 1, Loysville	Perry, Pa.
Heycock, John R.	336 Hummel Ave., Lemoyne	Cumberland, Pa.
Hildebrand, Joan Martin	229 N. Union Ave., Havre de Grace	Maryland
Hocker, Elaine W.	62 Park St., Progress, Harrisburg	Dauphin, Pa.
Hoffman, Janet V.	Main St., Saltillo	Huntingdon, Pa.
Holbert, John W.	249 S. Washington St., Greencastle	Franklin, Pa.
Holley, Josephine E.	5849 Chestnut St., Philadelphia	Philadelphia, Pa.
Hoover, Rodney L.	Newburg	Cumberland, Pa.
Howell, Roy E.	117 Ann St., Middletown	Dauphin, Pa.
Hunsberger, Jean Walker	229 Argyle Rd., Ardmore	Montgomery, Pa.
Itinger, Mary Lou	Shelton Ave., Alexandria	Huntingdon, Pa.
Jumper, Eldon D.	26 E. Main St., Newville	Cumberland, Pa.
Kaiser, Charles W.	R. 5, Chambersburg	Franklin, Pa.
Kaup, Nancy L.	60 S. Munn Ave., East Orange	New Jersey
Kiefman, Robert R.	Riddlesburg	Bedford, Pa.
Killalea, Patricia A.	Sumner	Nebraska
Klinger, Lloyd E.	1251 Susquehanna Ave., Sunbury	Northumberland, Pa.
Knohr, Janet L.	Market St., Gratz	Dauphin, Pa.
Lehman, Suzanne Vink	27 Elmwood Ave., Geneva	New York
Lenker, Helen E.	Market St., Pillow	Dauphin, Pa.
Lewis, Phillip L.	663 Pennsylvania Ave., York	York, Pa.
Lickel, George R.	1917 Fourth Ave., Altoona	Blair, Pa.

<i>Name</i>	<i>Address</i>	<i>County and State</i>
McCullough, Joseph P.	118 S. Pomfret St., Carlisle	Cumberland, Pa.
McDonnell, Catherine E.	711 Cedar St., Croydon	Bucks, Pa.
McKee, Margaret J.	28 S. Main St., Chambersburg	Franklin, Pa.
McMillen, Faye E.	Loysville	Perry, Pa.
Madden, Bonita R.	8 W. Main St., Mechanicsburg	Cumberland, Pa.
Malamos, H. Phyllis	8 S. Penn St., Shippensburg	
Mariner, Andrew	4030 Creston St., Philadelphia 24	Philadelphia, Pa.
Meckley, Patricia A.	506 Ninth Ave., Juniata, Altoona	Blair, Pa.
Mills, Charles W.	74 Asbury Ave., Atlantic Highlands	New Jersey
Mock, Dorothy L.	129 E. First Ave., Everett	Bedford, Pa.
Moore, Romana L.	Neelyton	Huntingdon, Pa.
Motter, James R.	R. 2, Littlestown	Adams, Pa.
Moyer, Janet Statler	139 Glen Road, Glen Burnie	Maryland
Moyer, Leon W.	408 Seiberts Courts, West Lawn	Berks, Pa.
Myers, Charlotte K.	752 W. Princess St., York	York, Pa.
Myers, Jack E.	Gardners 2, Hunters Run	Adams, Pa.
Nace, Eleanore T.	2223 Boas St., Harrisburg	Dauphin, Pa.
Neely, Donald L.	R. D. 1, Hollidaysburg	Blair, Pa.
Nesbit, James C.	R. D. 1, Wellsville	York, Pa.
Ness, Robert E.	166 S. Albemarle St., York	York, Pa.
Nolan, Joann	Newburg	Cumberland, Pa.
Ogden, Nancy J.	336 Baltimore St., Gettysburg	Adams, Pa.
Peck, Rose M.	711 Cedar Ave., Croydon	Bucks, Pa.
Penn, Thomas F.	100-13th St., Philipsburg	Centre, Pa.
Penrod, Alma Jones	34 S. Sixth St., Mount Wolf	York, Pa.
Pescuma, Ralph A.	110 Terrace Ave., Babylon	New York
Pheasant, E. Marie	Cassville	Huntingdon, Pa.
Pine, Shirley	305 Kalton Ave., Altoona	Blair, Pa.
Powell, Robert E.	119 N. Potomac St., Hagerstown,	Maryland
Pryor, Sarah J.	109 Ridge Ave., Waynesboro	Franklin, Pa.
Pyles, Kathleen Flood	Neelyton	Huntingdon, Pa.
Reese, Ruth E.	R. R. 3, Shippensburg	Cumberland, Pa.
Richards, Max E., Jr.	20 Ninth St., Philipsburg	Centre, Pa.
Roberts, Janet Long	R. D. 6, Carlisle	Cumberland, Pa.
Roberts, Roger A.	R. D. 6, Carlisle	Cumberland, Pa.
Robertson, Donald E.	938 W. Locust St., York	York, Pa.
Rodgers, Dean T.	College Ave, Milroy	Mifflin, Pa.
Roland, Calvin E.	315 Frederick St., Hanover	Adams, Pa.
Routson, Jacquelin B.	418 S. 13th St., Harrisburg	Dauphin, Pa.
Rummel, Wallace B.	22 S. Prince St., Shippensburg	Cumberland, Pa.
Runkle, Mary G.	28 S. 24th St., Penbrook,	Harrisburg
Scott, Emma R.	60 S. Munn Ave., East Orange	New Jersey
Shank, Anna Bricker	R. 1, Chambersburg	Franklin, Pa.
Sherman, Edgar J.	3424 N. Fourth St., Harrisburg	Dauphin, Pa.
Sinner, Carl I.	1915 N. Second St., Harrisburg	Dauphin, Pa.
Smleigh, Susan S.	5507 Sixth Ave., Altoona	Blair, Pa.
Smith, Genevieve A.	R. D. 1, Shippensburg	Cumberland, Pa.
Smith, Glenn E.	Third St., Boiling Springs	Cumberland, Pa.

<i>Name</i>	<i>Address</i>	<i>County and State</i>
Smith, Virginia E.	235 W. Main St., New Bloomfield	Perry, Pa.
Spigelmyer, Wanda L.	60 S. Munn Ave., East Orange	New Jersey
Stadulis, Robert T.	44 S. Earl St., Shippensburg	Cumberland, Pa.
Stamp, Joan M.	7075 Radbourne Rd., Upper Darby	Delaware, Pa.
Steele, Mildred I.	2114 Bellevue Rd., Harrisburg	Dauphin, Pa.
Sterner, George L.	34 N. Duke St., York	York, Pa.
Stuck, Kenneth O.	629 Highland Ave., Lewistown	Mifflin, Pa.
Stull, Lorren L.	242 Hamilton Ave., Waynesboro	Franklin, Pa.
Swartley, Kenneth M.	235 Cross Hill Rd., Philadelphia	Philadelphia, Pa.
Swartz, Richard L.	R. D. 1, Mercersburg	Franklin, Pa.
Sweitzer, Joanne Laughlin	1005 Jefferson Ave., Tyrone	Blair, Pa.
Taylor, Carol J.	1500 Moore St., Huntingdon	Huntingdon, Pa.
Tenny, William B.	41 N. Enola Drive, Enola	Cumberland, Pa.
Treese, Gerald E.	312 N. Fourth St., Bellwood	Blair, Pa.
Vesco, Theresa J.	R. D. 4, Box 158, Greensburg	Westmoreland, Pa.
Wallace, James W.	2600 Hoffer St., Penbrook, Harrisburg	Dauphin, Pa.
Ward, Myra F.	R. D. 1, Clearville	Bedford, Pa.
Warner, Emily S.	Blue Ridge Summit	Franklin, Pa.
Wenger, Jean E.	330 S. Second St., Chambersburg	Franklin, Pa.
Wetzel, Eleanor Eyer	118 N. Potomac St., Waynesboro	Franklin, Pa.
Whitcomb, Robert K.	R. D. 6, Carlisle	Cumberland, Pa.
Wirt, Sally Ann	106 S. 18th St., Camp Hill	Cumberland, Pa.
Yakoumis, Gertrude C.	415 E. Norwegian St., Pottsville	Schuylkill, Pa.
Yoder, Betsy L.	200 E. Main St., Belleville	Mifflin, Pa.
Zeiders, Barbara Hess	117 Willow Rd., Harrisburg	Dauphin, Pa.
Zimmerman, David E.	Orrstown	Franklin, Pa.
Zimmerman, Dorothy L.	4915 Smith St., Colonial Park, Harrisburg	Dauphin, Pa.

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Margaret Webster Players in *The Taming of the Shrew*

Mario Lanza, Tenor

Eleanor Knapp and Lloyd Harris, Operatic Duets

Margaret Daum, Soprano

Ruth St. Dennis Dancers

Charles O'Connell, Author, Conductor, Lecturer

The Ten Shawn Dancers

Evelyn MacGregor, Contralto

The National Symphony Orchestra

The Westminster Choir

Mario Braggiotte, Pianist

The Boston Symphonette

The Men of Song, Male Quartet

Louis Untermeyer, Poet and Lecturer

The Clair Tree Major Players

Sidney Harth, Violinist

Wilbur Evans, Baritone

The Hedgerow Players

Louise Bannerman, Harpist

The Vienna Choir Boys

Ruth Daye, Xylophonist

Morley and Gearheart, Duo Pianists

The Revelers, Male Quartet

Rawn Spearman, Tenor

The Tamburitans

Philadelphia Windwood Quintet

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