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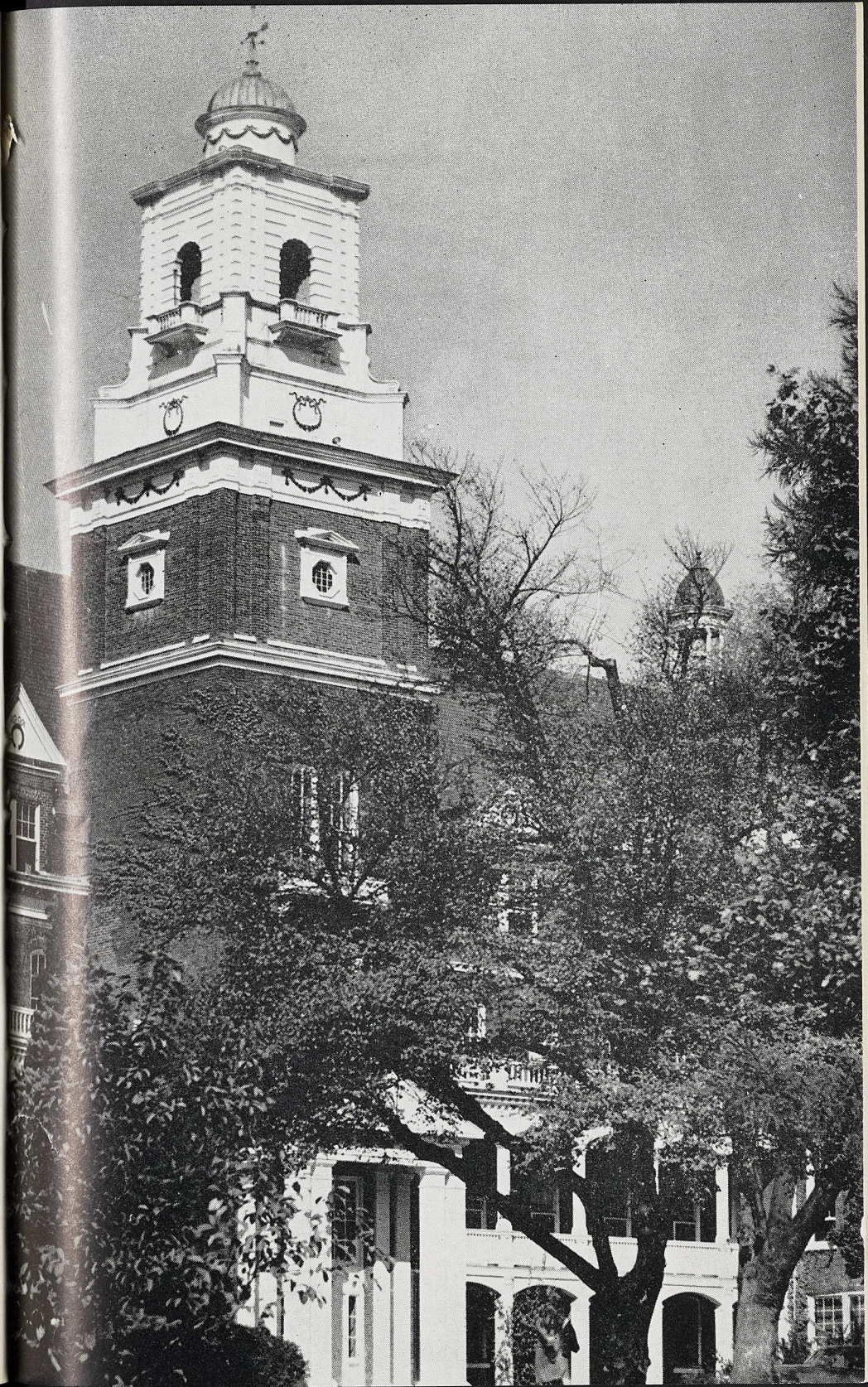


SHIPPENSBURG

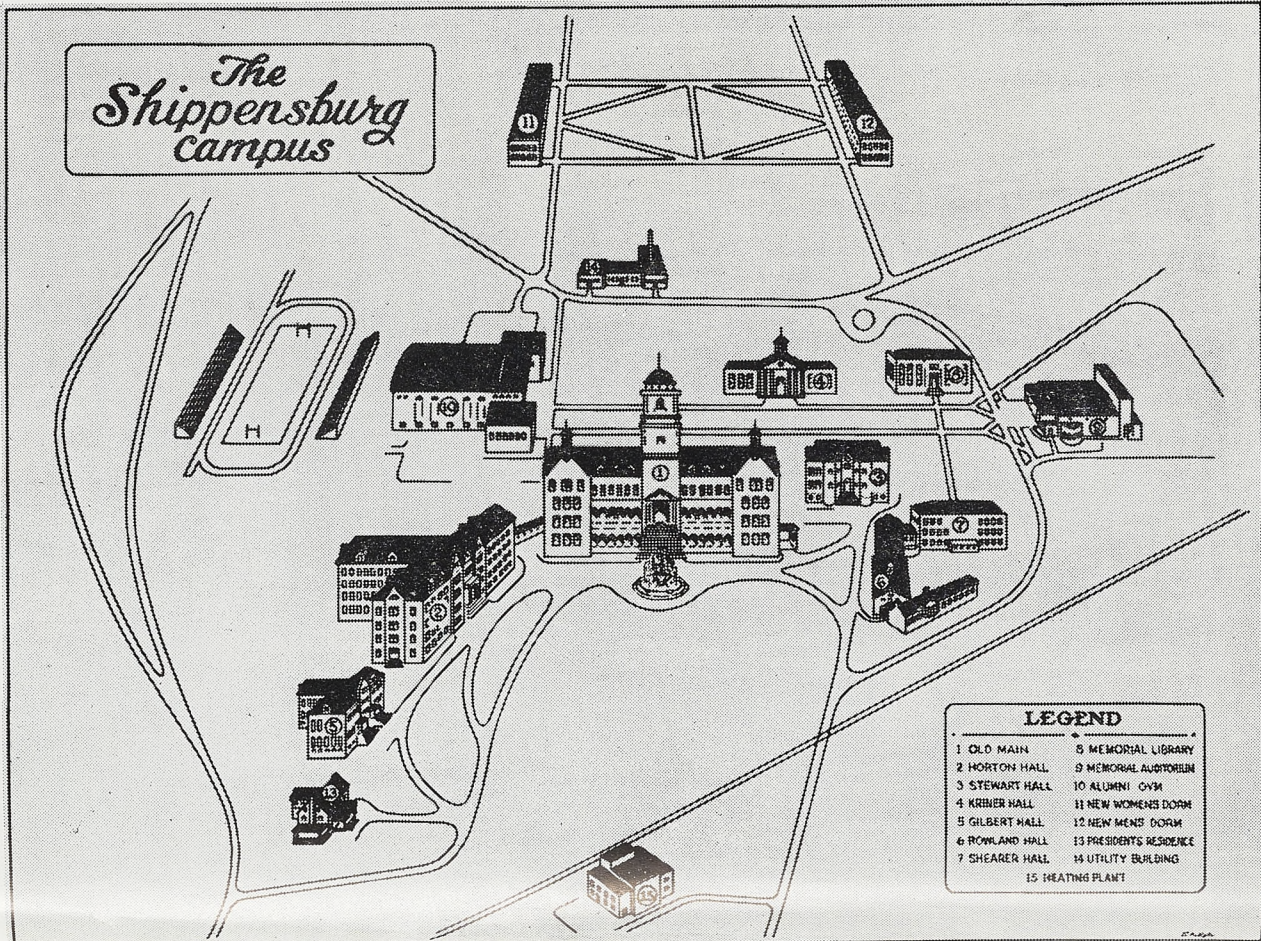
TEACHERS COLLEGE
HERALD

CATALOG
number
1958-59

State Teachers College
SHIPPENSBURG, PENNSYLVANIA



The Shippensburg campus



LEGEND

- | | |
|----------------|--------------------------|
| 1 OLD MAIN | 9 MEMORIAL LIBRARY |
| 2 HORTON HALL | 10 MEMORIAL AUDITORIUM |
| 3 STEWART HALL | 11 ALUMNI GYM |
| 4 KRIBER HALL | 12 NEW WOMEN'S DORM |
| 5 GILBERT HALL | 13 NEW MEN'S DORM |
| 6 ROWLAND HALL | 14 PRESIDENT'S RESIDENCE |
| 7 SHEARER HALL | 15 UTILITY BUILDING |
| | 15 HEATING PLANT |

The Teachers College Herald

VOLUME 62

MARCH 1958

NUMBER 3

CATALOG NUMBER

1958 - 1959



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

THE STATE TEACHERS COLLEGE

Shippensburg, Pennsylvania

The Teachers College Herald

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1923-1924

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SHIPPENSBURG, PENNSYLVANIA
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TEACHERS COLLEGE FACULTY
AND THE STATE TEACHERS COLLEGE
ASSOCIATION OF PENNSYLVANIA
FOR THE STATE TEACHERS COLLEGE
SHIPPENSBURG, PENNSYLVANIA

THE STATE TEACHERS COLLEGE
SHIPPENSBURG, PENNSYLVANIA

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COLLEGE CALENDAR

1958 - 1959

THE SUMMER SESSIONS — 1958

PRE-SESSION OF THREE WEEKS

Session Begins Monday, June 2
 Session Ends Friday, June 20

REGULAR SESSION OF SIX WEEKS

Session Begins Monday, June 23
 Summer Commencement Exercises Thursday, July 31
 Session Ends Friday, August 1

POST-SESSION OF THREE WEEKS

Session Begins Monday, August 4
 Session Ends Friday, August 22

FIRST SEMESTER — September — 1958

Registration of Freshmen Monday, September 8
 Registration of Upperclassmen Tuesday, September 9
 Classes Begin at 8:00 a.m. Wednesday, September 10
 Thanksgiving Recess Begins
 at the close of classes Tuesday, November 25
 Thanksgiving Recess Ends
 at 8:00 a.m. Monday, December 1
 Christmas Recess Begins
 at close of classes Thursday, December 18
 Christmas Recess Ends
 at 8:00 a.m. Monday, January 5
 Mid-Year Commencement Exercises Sunday, January 18
 First Semester Ends at Noon Tuesday, January 20

SECOND SEMESTER — January — 1959

Registration Monday, January 26
 Classes Begin at 8:00 a.m. Tuesday, January 27
 Easter Recess Begins
 at close of classes Tuesday, March 24
 Easter Recess Ends at 8:00 a.m. Tuesday, March 31
 Alumni Day Saturday, May 2
 Baccalaureate and Commencement
 Exercises Sunday, May 24

THE SUMMER SESSIONS — 1959**PRE-SESSION OF THREE WEEKS**

Session Begins Monday, June 8
 Session Ends Friday, June 26

REGULAR SESSION OF SIX WEEKS

Session Begins Monday, June 29
 Summer Commencement
 Exercises Thursday, August 6
 Session Ends Friday, August 7

POST-SESSION OF THREE WEEKS

Session Begins Monday, August 10
 Session Ends Friday, August 28

BOARDS OF CONTROL

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF PUBLIC INSTRUCTION

CHARLES H. BOEHM, Superintendent of Public Instruction
 HAROLD F. ALDERFER, First Deputy Superintendent
 CLARENCE ACKLEY, Deputy Superintendent
 C. HERMAN GROSE, Deputy Superintendent
 CARL SEIFERT, Deputy Superintendent
 RALPH SWAN, Deputy Superintendent

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 Secretary, CARL SEIFERT

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 CATHLEEN M. CHAMPLIN Philadelphia
 JAMES H. DUCKREY Cheyney
 O. H. ENGLISH Abington
 MILLARD E. GLADFELTER Philadelphia
 GEORGE E. HAMILTON Meadville
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 STEPHEN B. SWEENEY Philadelphia
 PEARL BUCK WALSH Dublin, Bucks County

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 J. BOYD LANDIS Carlisle
 JOHN B. MINEHART Chambersburg
 CARL A. NAUGLE Shippensburg
 GRACE H. SPONSELLER R. D., Chambersburg

THE FACULTY**1958 - 1959****RALPH E. HEIGES**

President of the College
A.B., Ursinus College
A.M., Ph.D., Columbia University

KEITH B. ALLAN

Chairman, Geography Department
B.Ed., Illinois State Normal University
A.M., Colorado Teachers College

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M.S., Bucknell University

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M.Ed., Duke University

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A.M., University of Virginia

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 A.M., Columbia University

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Chairman, Social Studies Department
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 A.M., Ph.D., University of Wisconsin

YI CHU WANG

Economics
 B.S., London University
 Ph.D., University of Chicago

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Chairman, Music Department
 B.S., Temple University
 A.M., New York University

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 B.S., State Teachers College, Shippensburg
 M.Ed., Pennsylvania State University

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 B.E., State Teachers College, Whitewater
 Ph.M., University of Wisconsin

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Librarian
 A.B., Allegheny College
 B.S., Library Science, Columbia University
 M.Ed., Pennsylvania State University

ADMINISTRATIVE OFFICERS

RALPH E. HEIGES, Ph.D. ----- President of the College
 VIRGINIA GOODHART ----- Secretary to the President
 D. PAUL SMAY, Ed.D. ----- Dean of Instruction
 HELEN RINE ----- Secretary to Dean of Instruction
 DELORES WOODS ----- Secretary, Dean's Office
 GILMORE B. SEAVERS, M.Ed ----- Director of Admissions
 EVELYN NEEDY ----- Secretary to Director of Admissions
 VIRGINIA B. LONG, M.Ed. ----- Dean of Women
 VINTON H. RAMBO, Ed.D. ----- Dean of Men
 WILLIAM E. BEYERS, Ed.D. ----- Director of Student Teaching
 DORIS ANN BAUMGARDNER
 Secretary to Director of Student Teaching

LABORATORY SCHOOL

CHESTER S. EASTEP, Ed.D. ----- Principal
 IRENE ILLINGSORTH, M.Ed. ----- First Grade

FAY BITTNER, M.Ed.	Second Grade
THELMA E. SMALL, A.M.	Third Grade
ADELE H. MITCHELL, M.Ed.	Fourth Grade
MARY ELIZABETH FOGELSANGER, M.Ed.	Fifth Grade
DOROTHY MARQUART, M.Ed.	Sixth Grade

HEALTH SERVICES

JOHN HARGLEROAD, M.D.	Physician
JEAN PETERSON, R.N.	Nurse

BUSINESS OFFICE

HIRAM W. GILL	Business Manager
JANE G. ASKINS	Clerk-Typist
BEULAH A. BOWEN	Accounting Assistant
GERTIE FOGELSANGER	Clerk
MARIE Y. LICHTY	Purchasing Agent
EDNA MOUER	Steno-Clerk
HARRY BUGHMAN	College Store and Snack Bar Manager
THELMA STROHM	College Store Clerk
R. BRUCE CLIPPINGER	Stock Clerk

HARRY M. ESHELMAN Supt. of Grounds and Buildings
 Harvey Allen, Clarence L. Chamberlin, George W. Clough, G. Arthur Commerer, Amos J. Devor, Charles B. Durff, James S. Foltz, Hiram D. Highlands, C. C. Hoover, R. J. Hutchison, Calvin R. Kirkpatrick, Walter Klenzing, K. Eugene Koontz, Benjamin F. Kunkleman, W. Ebbert Love, Robert B. Marpoe, George Ott, Earl Pugh, Marlin Rhinehart, George Rockwell, Blake W. Schaeffer, George W. Shindledecker, Jerry Thomas, John B. Tritt, Elmer B. Van Scyoc, Beattie Watson.

HAROLD T. FUNSTON	Watchman
PAUL F. METZ	Watchman
RAY E. HENRY	Watchman
WILLIAM S. WEIBLEY	Watchman
WILMOT J. MOWERY	Watchman

SARA McCULLOCH Matron, "Old Main"
 Assistants—Florence Piper, Lula M. Plasterer.

MILDRED ALLEN Matron, "Men's Dormitory"
 Assistants—Dorothy Crouse, Bermeda L. Jones, Sarah K. Kline, Helen Martin.

DOROTHY PLASTERER Matron, Horton Hall
 Assistants — S. Catherine Bigler, Pearl Holtry, Grace Killian, Retha Plasterer.

LOTTIE McCLELLAN Dietitian

JOHN L. WOLFE Kitchen Supervisor
 Mary L. Cressler, Anna Culbertson, Ida A. Doyle, Marie F. Eberly, Carrie A. Fortna, Verne C. Gettel, Annabelle E. Horton, Hazel M. Mixell, Nellie E. Mixell, Mae Rebuck, Elizabeth Shearer, Helen Becker Oyer, Olive C. Stake, Jane Tarner, Lois E. Wisner, Alverta S. Burdge, Jacob M. Crider, Ruth Lutz.

NELL K. STRIKE ----- Superintendent of Laundry
 William D. Carbaugh, Lena Clough, Violet N. Clough, Nellie
 Craig, Vonnie M. Ile, Grace D. Keeseman, Mildred L. Martin,
 Nina L. Miller, Mary O'Donnell, Louise Piper, Romaine Ressler,
 Mary M. Runshaw, Luella M. Weller.

ANNA WALTERS ----- Cafeteria Manager
 Esther Reese, Bessie Naugle.

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 against exploitation at the hands of unworthy colleges. The acknowledged accrediting agency for this region of the country is the Middle States Association. This college is fully accredited by it. The national accrediting agency for teachers colleges is the National Council for the Accreditation of Teacher Education, which has a membership of 314 fully accredited teacher education institutions including the State Teachers College at Shippensburg. The College is a member of the National Association of Business Teacher-Training Institutions. It is also accredited by the Pennsylvania State Council of Education.

Location

The College is located on the northwest edge of Shippensburg, a town of approximately seven thousand people, situated in the beautiful Cumberland Valley, forty miles southwest of Harrisburg on U. S. Route 11, Carlisle, the county seat of Cumberland County, is located 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 southeast of Shippensburg. 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; E. A. Angell 1878-79; B. S. Potter, 1879-82; S. B. Heiges, 1882-86; J. F. McCreary, 1886-89; G. M. D. Eckles, 1889-1907; S. A. Martin, 1907-13; Ezra Lehman, 1913-31; Albert L. Rowland, 1932-45; Levi Gilbert, 1945-48; Harry L. Kriner, 1948-56; Ralph E. Heiges, 1956-

Campus

The campus consists of approximately one hundred fifty 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 fourteen 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. It was 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 includes the offices of the Business Manager, the Snack Bar, Bookstore, Post Office, accommodations for commuting students, and several supply rooms. The second floor includes the offices of the President, Dean of In-

struction, Director of Student Teaching and Placement, Director of Admissions, 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. Renovations made in 1950 provided a lobby for each of the four floors, sixteen additional rooms for students on the first floor, and two indoor fire proof stairways which replace the old outside fire escapes.

ROWLAND HALL was built in 1939. It is located on the east campus, and is used to accommodate a Laboratory School for grades one to six. The south wing provides offices and classrooms for the Elementary Education Department. A beautiful auditorium is attached to the building for the use of the Laboratory School. The office of the principal, health room, a library, 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. There is an entrance to Heiges Athletic Field on the ground floor. It has a large gymnasium floor, locker rooms for men and women, a swimming pool, a wrestling and boxing room, and a recreation room which is also 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 quadrangle from the south. 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 classroom are located on the main floor. On the second floor are located a physics laboratory, an elementary chemical laboratory, and advanced chemistry laboratory with a balance room, and a classroom. Each laboratory has a supply room and an office.

EZRA LEHMAN MEMORIAL LIBRARY was built in 1931 and is located on the east campus facing the quadrangle from the north. This beautiful building is extreme-

ly well-planned for excellent library service. A very modern and complete visual education laboratory is located on the ground floor.

MEMORIAL AUDITORIUM was completed in 1951. It is located at the east end of the campus facing the quadrangle from the east. This is a modern building with a large stage. The seating capacity is 800. An amphitheatre room for band, orchestra, and glee club practice, music rooms, dramatic and speech rooms, and a dramatic workshop, are also located in this excellent building.

KRINER HALL, a beautiful new dining hall, was occupied early in 1958. It is located north of "Old Main" facing the quadrangle from the north. This is an exceptionally well planned building which provides the college with ultra modern dining and kitchen facilities. The dining room is designed to seat 800. The ground floor of this building is a large central storage room for the College.

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 as 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 southwest 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 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. It is located north of "Old Main."

The **UTILITY BUILDING** was built in 1937 and is 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 heating plant is attached which furnishes hot water and steam for the summer needs. This permits the main heating plant to be closed.

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

Library

The library is modern and exceptionally well equipped. It contains a collection of over 45,000 books arranged on convenient stacks. The magazine racks carry over 294 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.

Audio-Visual Aids

The Audio-Visual Education Department, which includes the Audio-Visual Aids Library and the Audio-Visual Education Laboratory and Projection Room, is located on the North Ground Floor of the College Library. More than 1500 audio-visual aids for use in public schools, campus classes, and student teaching are circulated by the Audio-Visual Aids Library. This library is a depository for aids listed in Bulletin 208, Department of Public Instruction. All classes in Audio-Visual Education meet in the Audio-Visual Education Laboratory, also used as a projection room for college classes. This Laboratory also maintains a display of more than 1300 teaching aids, such as exhibits, models, mock-ups, dioramas, specimens, and objects.

Social Program

Shippensburg is a co-educational college. The enrollment of men is over 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.

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.

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 imitation by 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.

College Living Accommodations

Students at Shippensburg State Teachers College live in dormitories, in their own homes, or in approved residences. Because of crowded conditions, seniors are requested to live in town and thus allow the maximum number of freshmen to have dormitory experience. The dormitory rooms have single beds furnished with 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 electrical appliances are not permitted in the rooms.

A list of available town rentals will be provided students upon application so they may locate a room of their own choice.

Students who live in town residences may make arrangements to eat in the college dining hall and those who do so may also send their laundry to the college laundry.

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 on the ground floor of Stewart Hall; and two lounges for day men on first floor of Old Main. 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 2-9814 and that in the Women's Dormitory 2-9813.

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.

Dormitory Room Security

It is the responsibility of each dormitory student to secure a key to his room at the Book Store and to keep the key on his person at all times. No one is authorized to enter a locked student room except the College President, or those whom he may individually delegate; the Dean of Men, or Women and their assistants.

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 Chest 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.

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 \$5,000 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.

Athletic Coverage

All students participating in Intercollegiate sports will have insurance coverage up to \$5000 paid for by the college. This athletic insurance will pay for injuries arising while practicing for, playing, and traveling as a member of an athletic team. This insurance will cover no other injuries.

LABORATORY SCHOOLS

The college uses its own campus Laboratory School as well as the facilities of nineteen neighboring public school systems for student teaching. Students visit, observe, and then teach for an entire semester in these schools. The good practices of both the college and the participating school systems are coordinated in the course Professional Practicum which is the workshop course integrated with student teaching.

The following schools and school systems are registered with the college as laboratory schools or student teaching centers:

School Systems	Grades
Rowland Laboratory School	1- 6
Big Spring Joint Schools	1-12
Camp Hill Schools	1-12
Carlisle Area Joint Schools	K-12
Central Union Schools	Bus. Ed.

Chambersburg Area Joint Schools	1-12
Cumberland Valley Joint Schools	1-12
Greencastle-Antrim Joint Schools	1-12
Gettysburg Area Joint Schools	1-12
Harrisburg Public Schools	1-12
James Buchanan Joint Schools	1-12
Mechanicsburg Area Joint Schools	1-12
Northern Joint Schools	Bus. Ed.
Northeastern Schools	Bus. Ed.
Quincy Public Schools	1-12
South Middleton Township Schools	1-12
Shippensburg Area Joint Schools	1-12
Steelton-Highspire Joint Schools	1-12
Waynesboro Area Joint Schools	1-12
York Public Schools	Bus. Ed.

SUMMER SESSIONS

Three separate summer sessions are scheduled each year: Pre Session (three weeks), Main Session (six weeks), Post Session (three weeks). They provide opportunity for:

1. *Teachers in Service* (to enable them to meet certification course requirements or to complete work for the degree).
2. *Public School Nurses or Graduate Nurses* (to enable them meet certification course requirements or to complete work for a degree in the Public School Nursing Curriculum).
3. *Regular College Students* who attend in the winter sessions (to enable them to accelerate the completion of their program in less time than the usual four years or to make up course omissions or quality point deficiencies).

During these sessions, courses are offered in business, elementary, secondary, and public school nursing education. A total of twelve semester hours credit may be earned in the entire session. A special descriptive bulletin listing all courses and special educational and recreational events will be sent upon request.

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 the curriculums also afford a general and liberal preparation for complete living, and that 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 of and the appreciation for 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 revising them in keeping with the needs of the college.

STUDENT ACTIVITIES

GOVERNMENT

The Student Cooperative Association

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

The Presidents' Council

This body is composed of twenty-six 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 Presidents' 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 Choraleers group of twenty-four mixed voices; the Girl's Trio; the Girl's Sextette 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

The band is open to those students who are interested in instrumental music and who are qualified to join on the basis of experience. Adequate technical facility, ability to read music readily, and a feeling for interpretive skill are emphasized.

During the fall semester the band is a marching unit which performs intricate maneuvers and drill formations at football games. It works closely with those organizations sponsoring athletic events, and its performances convey the spirit that is necessary for satisfactory college life.

At the conclusion of football season the band turns its attention to the concert repertoire, and overtures, suites, and contemporary works for band are studied and performed.

Certain band instruments are owned by the college and are available for student use.

College Orchestra

The college orchestra is open to those students who are interested in orchestral music. Adequate technical facility, ability to read music readily, and a feeling for interpretive skill are emphasized. Certain orchestral instruments owned by the college may be used by students. Since the string section is the backbone of the orchestra, students who play string instruments are urged to participate in this organization.

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 intramural 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, track and wrestling. 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 athletes. Intercollegiate competition for women is provided in hockey and basketball.

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 President of the College as chairman, the athletic adviser as secretary, Dean

of Instruction, coaches of athletics for women, coaches of athletics for men, the business manager, and the president of the two athletic associations. The council determines the athletic policy of the college, directs the budgeting of finances for the support of athletics, approves proposed inter-collegiate contracts, 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 AND STUDENT PUBLICATIONS

The Masquers is an organization for students who are interested in all phases of play production. In weekly workshop meetings, members are given an opportunity to work at set construction, lighting, acting, costuming, make-up, scene design, directing, and play-reading.

Public performances presented by this group include one major production and a group of one-acts each semester. Any member of Masquers may try out for major productions. One-acts are a part of workshop activity and are presented in groups of three or four in Memorial Auditorium.

Masquers and the music department work together on the annual Christmas pageant presented the week before the Christmas holidays.

The Cumberland

The "Cumberland" is the regular college yearbook financed by the Student Cooperative Association and edited and published by the senior class. It represents by word and picture the spirit, the personnel, and the manifold activities of the College. All registered, full-time students receive a copy of the "Cumberland."

The Handbook

The Hand Book is published each year by a student committee. This small booklet is filled with descriptive material concerning clubs, student organizations, and college policies. It also contains a Calendar of Events listing the dates for club meetings and various college activities during the college year. It is a valuable guide for students, especially freshmen and transfer students.

The Reflector

The college literary magazine is published four times annually. It serves as a medium for stimulating creative writing of both students and faculty; it also affords experience with the problems related to school publications. *The Reflector* is a member of the Columbia Scholastic Press Association.

The Slate

The four-page newspaper is published at least eight times during the college year. It gives a thorough coverage of campus news and activities; it also serves as a practical outlet for experience in news writing and lay-out.

CLUBS**Aquatic Club**

The Aquatic Club is for men and women who wish advanced instruction in swimming. The club sponsors demonstration and recreational meets. An aquatic show, presented each spring, is the high-light of the year's program. Although not part of the club's activities, it is usually one or more of the members of the club who assume the responsibility of conducting the Red Cross senior life-saving and water safety instructor training courses. Red Cross certificates are awarded to students who satisfactorily complete the required work in these courses.

Archery Club

This is an organization sponsored by the W.A.A. when sufficient numbers are interested 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 gaining popularity all over the country.

Art Association

The Art Association is an extra-curricular organization of the college which meets weekly for one and a half hours. The club has for its objectives growth of art appreciation and the development of talent beyond that which the class-

room offers. The club is maintained for those students who are interested in some phase of art activity.

The Business Education Club

Membership in the Business Education Club is open to all students in the Department of Business Education. Its objectives are to encourage scholarship, to make contacts in the field of business, and to sponsor social activities.

Regular programs feature speakers, films, demonstrations, and visits to large retail establishments, high school business departments, various types of offices.

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.

Government Club

The club is organized to interest students in all aspects of national, state, and local governments in America. This group participates in the sessions of the Intercollegiate Conference on Government which is held each year in Harrisburg and also attends the regional meeting of the Citizenship Clearing House which usually is held at the University of Pennsylvania. This latter meeting enables students to meet important political leaders and talk with them intimately.

International Relations Club

This club is open to all students interested in studying and discussing international affairs. It is associated with similar clubs throughout the United States and abroad

which are sponsored Nationally by the Foreign Policy Association. In addition to bi-weekly meetings, club members annually attend a state conference, a Model United Nations Assembly and other intercollegiate meetings.

Language Club

Membership in this club is open to any student interested in French, Spanish, or German. Meetings are held twice a month. The Programs deal with various aspects of the life and culture of the French, Spaniards, Spanish-Americans and Germans. They consist of games, songs, skits, and talks.

Mathematics Club

The Mathematics Club aims to promote a greater interest in mathematics among its members and in the college. Activities of the club include a study of important phases of the history of mathematics, the social significance of the subject, mathematical recreations, and other activities of a mathematical nature. Trips are taken to nearby industries to learn how mathematics are applied. Club members are privileged to hear speakers of national repute in cooperation with mathematics clubs from neighboring colleges. The club is open to all students interested in mathematics.

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. Each spring the club sponsors a competitive Science Fair for the high schools in our area. The club members also take a trip each fall to visit industries, museums, botanical gardens, zoos, observatories, etc. The club is open to all students of the college.

Student Education Association Pennsylvania**Student National Education Association**

The Atkinson Chapter SEAP—SNEA is the professional organization for college and university students preparing to teach. It is comparable to the NEA and PSEA and each member is an associate member of these education associations. A student member receives all the services of a regular member plus special student services. Student membership is designed to offer the pre-service teacher a stepping stone to his life's profession. These professional organizations offer students opportunities to participate now in the programs and activities of the teaching profession; to work on the professional level; to gain insight into the voluntary organizations which teachers have developed in order to improve themselves, the schools, and to provide the best possible education for all children. This is done through a well-rounded program of professional activities not provided through regular classes and sprinkled with outstanding social events.

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.

Veterans Club

This is an organization made up of men and women who have served in the Armed Forces. They interpret veterans regulations, local and National, as they affect the membership.

This group is self-supporting, not drawing any funds from the Student Activity Association. Each year they set up a campus project, buying the first television set on the campus in 1953 which was given to the student body, and erecting a drinking fountain in 1956.

Alpha Phi Omega

Alpha Phi Omega is a national service fraternity composed of college men who are or have been previously affli-

ated with the Boy Scouts. Their purpose is to render service to the campus, the community, and the nation. The Lambda Lambda chapter of Alpha Phi Omega was installed on May 16, 1954.

Alpha Psi Omega

This is an honorary dramatic fraternity and the largest honor society in college dramatics. The Shippensburg State Teachers College chapter is designated as the Pi Tau Cast of Alpha Psi Omega.

Members of Masquers who have four semesters of service and have attained at least 50 points for outstanding work in dramatics are eligible for membership in this fraternity.

Pi Tau Cast of Alpha Psi Omega was installed on May 8, 1957 for the purpose of providing an honor society for those doing a high standard of work in dramatics and to provide a wider fellowship for those interested in college theatre.

Kappa Delta Pi

The Epsilon Epsilon Chapter of Kappa Delta Pi was installed on May 25, 1941. Kappa Delta 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 (a 2.2 average required) and membership in the junior class must have been achieved.

Pi Omega Pi

The Beta Lambda Chapter of Pi Omega Pi, a national honorary 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 civic 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 business, the completion of

fifteen semester hours in business and education, with a superior scholastic rating.

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.

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.

Tau Kappa

The Gamma chapter of Tau Kappa is an honorary organization whose purposes are to continue the high standards of physical efficiency, to uphold good sportsmanship, to stimulate and maintain interest in all women's sports. The Gamma chapter also wishes to render service to the campus and community throughout the year.

Membership in this organization is attained by accumulating 1150 points as set forth by the Women's Athletic Association, plus character qualities set up by the chapter. Initiations take place in the spring.

FEES - DEPOSITS - REPAYMENTS

The fees for each student are payable in advance on the dates listed in this catalog. The Late Registration Fee will apply to 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 registration card which can be secured only at the time fees are paid. Students shall not be admitted to classes, activities, or the dining hall when payments on account have not been made in advance.

F E E S

Student Activity Fee

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

The Student Activity Fee of \$22.50 per semester, or \$11.25 per half semester, shall be paid in advance, and is not refundable. Checks for this fee are payable to The State Teachers College. Checks to pay other accounts mentioned hereafter are payable to the Commonwealth of Pennsylvania.

Basic Fee

A Basic Fee for each student in each curriculum shall be charged as follows per semester of eighteen weeks.

	Basic	Special	Total
Business Curriculum	\$72.00	\$12.00	\$84.00
Elementary Curriculum	72.00	(none)	72.00
Secondary Curriculum	72.00	(none)	72.00

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

Students taking six or fewer semester hours shall pay at the rate of \$11.00 per semester hour. Students taking more than six semester hours shall pay the regular Basic Fees. A Special Fee for the Business Education Curriculum shall be pro rated on the basis of an eighteen semester hour load.

Students taking extension courses shall pay at the rate of \$11.00 per semester hour, and in those cases where it applies, a Special Fee for the Business Education Curriculum shall be pro rated on the basis of an eighteen semester hour load.

The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students.

Summer Session Fees

The Basic Fee for the summer sessions shall be \$11.00 per semester hour. A minimum Basic Fee of \$33.00 shall be charged.

In addition to the above fee, students in the Business Education Curriculum shall be required to pay a fee to cover the cost of materials, supplies, equipment, and special services in the amount of \$4.00.

Students enrolled for periods of instruction differing from the schedule shall pay fees on a pro rata basis of the schedule of fees provided for the six weeks summer session.

Housing Fee

The Housing Fee for students shall be \$252.00 per semester, or \$126.00 per half semester. The fee for the six weeks summer session shall be \$84.00. This includes room, meals, and limited laundry. The rates for less than full housing service shall be: Meals—\$9.00 a week; Room and laundry—\$5.00 a week.

Students arranging for housing services for periods of time differing from those set forth in the foregoing regulations shall pay fees on a pro rata basis.

The rate for transient meals shall be: Breakfast \$.50; Lunch \$.75; Dinner \$1.00; room per night \$1.00. Students

having guests overnight who must be provided with dormitory accommodations must introduce them to the Dean of Women in the case of women and the Dean of Men in the case of men, and arrange for the payment of the regular room charge of \$1.00 per night.

All arrangements for housing services other than those here set forth shall be subject to the action of the Board of Trustees as reviewed by the Finance Committee of the Board of Presidents and approved by the Superintendent of Public Instruction.

The President of the College may, at his discretion, authorize payment for not less than one month in advance by worthy students.

Damage Fee

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

Infirmary Fee

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

Day students, who are admitted to the infirmary, shall pay board at the rate of \$3.00 a day. This charge covers the regular nurse and regular medical service, but does not cover special nurse or special medical service.

Fees for Out-of-State Students

Full-time students whose legal residence is not in the State of Pennsylvania shall be charged an Out-of-State Fee of \$168.00 per semester in addition to all other fees.

Out-of-State students who are part-time campus students, off campus extension students, or summer school students shall be charged a Basic Fee of \$15.00 per semester hour (minimum Basic Fee—\$45.00), the Special Fee for the Business Education Curriculum, and other applicable fees.

Degree Fee

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

Record Transcript Fee

One dollar (\$1.00) shall be 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 the armed forces.

Late Registration Fee

A fee of \$1.00 per day, not exceeding a total of \$5.00 shall be charged for late registration. The same regulation applies to approved intra-semester payments (November and March).

Delinquent Accounts

No student shall be enrolled, graduated, or receive a transcript of his record until all previous accounts including those at the Book Store have been paid.

Private Instruction Fees

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 Sessions the charge is one-third of above rates).

The charge for private lessons in music in the State Teachers College not offering 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.

DEPOSITS**Advance Registration Deposit**

A deposit of \$25.00 shall be paid by all students. This is a guarantee of the intention of the student to register at the college for the term or semester designated. It is deposited with the Revenue Department to the credit of the student's Basic Fee.

New students who meet the admission requirements of the college, but who do not register at the beginning of the semester, shall not receive a repayment of this deposit. However, if students are not admitted by the college after paying the Advance Registration Deposit, they shall receive \$15.00 of the deposit if written application is made to the Business Manager of the college before September or January of the semester in which they were admitted to register. A check or Money Order for this amount shall be drawn to the Commonwealth of Pennsylvania. All Post Office Orders shall be drawn on the Post Office at Harrisburg.

REPAYMENTS

Students who voluntarily withdraw from the college shall notify the President or Dean of Instruction of their intention to discontinue their studies.

Repayments shall not be made to students who are temporarily suspended, indefinitely suspended, dismissed, or who voluntarily withdraw from college.

Repayments shall not be made to students for any part of the Advanced Registration Deposit for any reason whatsoever except when the student is not admitted by the college.

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 Trustees for the amount of the Basic Fee and Housing Fee paid by the student for the part of the semester which the student does not spend in college.

Students who meet the admission requirements of the college, but who do not register at the beginning of the semester, shall not receive a repayment of the Advance Registration Deposit. However, if students are not admitted by the college after paying the Advance Registration Deposit, they shall receive \$15.00 of the deposit if written application is made to the Business Manager of the college before September or January of the semester in which they were admitted to register.

SUMMARY OF FEES PER SEMESTER
Students Living at the College (Dormitory)

<i>Description</i>	<i>Elementary &</i>	
	<i>Business</i>	<i>Secondary</i>
Tuition	None	None
Basic Fee	\$ 72.00	\$ 72.00
Business Education Fee	12.00	
Student Activity Fee	22.50	22.50
Board, Laundry, Room	252.00	252.00
Total	\$358.50	\$346.50

Students Not Living at the College (Day)

Tuition	None	None
Basic Fee	\$ 72.00	\$ 72.00
Business Education Fee	12.00	
Student Activity Fee	22.50	22.50
Total	\$106.50	\$ 94.50

Students Not Living at the College (Live in Town)

Live in Town, Laundry and Meals at College	\$189.00
(at rate of \$10.50 per week)	
Live in Town, Meals at College	\$162.00
(at rate of \$9.00 per week)	
Live in Town, Laundry at College	\$ 27.00
(at rate of \$1.50 per week)	

The fees for students who "live in town" are in addition to the Basic Fee and the Student Activity Fee.

Dates of Payments for Academic Year 1958-1959

Tuesday, September 9	—Payment for first half of first semester
Wednesday, November 12	—Payment for second half of first semester
Monday, January 26	—Payment for first half of second semester
Friday, April 3	—Payment for second half of second semester

Summer session fees shall be paid on the first day of each session.

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.

Public Speaking Prize

The class of 1916 offers a yearly prize of five dollars for excellence in public speaking.

George L. Brown Scholarships

By the will of the late 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.

Sico Scholarships

High school seniors who expect to become teachers in the elementary schools of Pennsylvania and who live in Berks, Cumberland, Dauphin, Lancaster, and Chester counties are eligible for this scholarship. The Sico Company of Mount Joy, Pa., sets aside its profits for education in those areas where their products are sold. The scholarship is worth \$300 for each of the four years in college.

Those who are interested in this scholarship should consult their Principal or Guidance Director for details and secure an application blank. The scholarships are competitive and are awarded on the basis of scholarship and need. Usually there are eight scholarships for awarding at Shippensburg.

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.

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 Elementary 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 Reflector Award

The advertising fund of the Reflector is set aside as a trust fund, the income from which is to be used as a prize to be awarded at the annual commencement exercises to the senior student who has contributed most to the general welfare of the college during his four years. The selection of the recipient of the prize, which is to be known as the Reflector Award for Distinguished Service, is to be made by the entire faculty of the college before March 15 of each year.

Pa. Congress of Parents and Teachers Student Aid Fund

Loans are made for the purpose of training in the elementary and secondary fields. The total amount of loan shall not exceed \$520 for four years or \$130 a year paid in two installments of \$65 each semester. The recipient shall repay such loan at the rate of \$130 per year following graduation. No interest payments are required but a promissory note must be executed.

Class of 1908 Scholarship

A committee of five members appointed by the President of the College shall select a student for this scholarship who has completed his or her sophomore or junior year, and by academic excellence, good character, evidence of leadership, and interest in teaching, gives promise of outstanding achievement. The Committee shall award the scholarship to said student in the name of the Class of 1908 in the amount of the net earnings of the Trust Fund to the nearest multiple of Ten (\$10.00) Dollars but not to exceed One Hundred (\$100.00) Dollars and shall be applied to the account of the student receiving said scholarship or award.

Kappa Delta Pi Prize

Epsilon Epsilon Chapter of Kappa Delta Pi offers a yearly prize (of books) to the sophomore who has attained the highest average at the end of his freshman year. The prize is awarded at a convocation in the fall.

Work Opportunities

At the College there are opportunities for part-time employment. These part-time jobs are limited mainly to upperclassmen 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 times 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 number 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 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 over \$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 Class of 1904 originated the fund

at graduation and added to it at their fiftieth 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 Roth—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 Memory 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.

General Electric Education Fund, 1955 given through a member of 1937 class.

SCHOLASTIC REGULATIONS

REQUIREMENTS FOR ADMISSION

The following general admission requirements have been adopted by the Board of Presidents of the State Teachers Colleges:

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 all cases the college shall seek further evidence from the results of a reliable aptitude test such as the American Council on Education Psychological Examinations and a test on communications such as the Cooperative English Tests published by the Educational Testing Service.

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

Applicants for admission to the Shippensburg State Teachers College should write to the Director of Admissions and request application forms. The following procedures and requirements are to be observed:

1. *Application Forms.* File the following forms with the Director of Admissions:

Personnel Form
Medical Examination Form
High School Form

2. *Transfer Students.* These students must also file the application forms as well as an official transcript of college credits including a statement of honorable dismissal from the college or university previously attended.
3. *Advance Registration Deposit.* Send the advance registration deposit of twenty-five dollars (\$25.00) with the Personnel Form.
4. *Personal Interviews.* All applicants for admission will be notified of special dates when personal interviews will be scheduled. These will be scheduled following receipt of the application forms.
5. *Entrance Examinations.* All applicants for admission will be required to take the entrance examinations. These will be given on the following dates in Memorial Auditorium:

Saturday, November 22, 1958
Saturday, January 10, 1959
Saturday, February 28, 1959
Saturday, April 11, 1959

The first test will be given at 10:30 a.m. and will last until noon. The second one will be given at 1:00 p.m. and will last until 4:00 p.m. All applicants will take both the test given in the morning and the one in the afternoon.

As soon as these requirements have been met and the entrance examinations scored (approximately two weeks after the test date), the applicant will be notified of the action taken by the Committee on Admissions.

TESTING PROGRAM

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

1. To assist in the counseling of students, the college shall require each freshman to take a recognized aptitude test and a test on Communications such as the Cooperative English Test.

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.

ACADEMIC PROGRESS

Students progress in classes is constantly appraised by the teachers who schedule regular office hours to enable students to confer regarding their academic achievements or particular problems with course work. In the middle of each semester the teachers send reports through the Dean's Office to individual students commending them if their work has been of exceptionally high quality or warning them if it has been of such poor quality that there is a question as to whether the course can be passed unless marked improvement is demonstrated. At the end of each semester a final grade is recorded on the students permanent record cards.

Student Load

The normal semester work load is sixteen credit hours. A program of more than eighteen hours requires approval of the Dean or the Advisory Committee and is usually dependent upon a past record average of *B* or better. Students with heavy out-of-college work schedules, those with health problems, and those on academic probation are advised or required to schedule less than the usual number of classes.

Classification of Students

Students are classified according to the number of semester hours completed as follows: 0-29 semester hours, freshman; 30-59 semester hours, sophomore; 60-89 semester hours, juniors; 90 or more semester hours, senior.

Marking and Point System

A five-point marking system (A, B, C, D, F,) is used to indicate the quality of academic work. *A* indicates that originality has been in evidence in attaining the objectives of the course in a superior manner; *B* indicates that the objectives of the course have been met in an above average manner, but that there has been little evidence of originality; *C* indicates that the assigned work has been done satisfactorily; *D* indicates that the work has been below average but is passing; *F* indicates that the objectives of the course have not been met.

Inc. indicates that a student who otherwise has done satisfactory work with passing grades has failed to complete, because of some excusable emergency (illness, death in the family, etc.), certain course requirements, such as written reports, laboratory work, or the final examination. The incompletes must be removed by the student before the end of the ninth week of the succeeding semester or automatically the grade will be recorded as *F*.

The academic average of each student is determined by assigning specific quality points to each letter marks: *A*, 3 points; *B*, 2 points; *C*, 1 point; *D*, 0 points. The students total quality-point ratio is computed by:

1. multiplying the semester hours of credit in each course by the quality points of the grade earned,
2. totaling the credit hours and the quality points for all courses completed.
3. dividing the total number of quality points by the total number of credit hours completed.

Standards of Work Required

Students are required to achieve a satisfactory level of progress each semester towards graduation by maintaining cumulative quality-point ratios equal to or better than these minimums:

Freshmen, end of first semester	.50 (— 8 quality points)
end of second semester	.60 (—13 quality points)

Sophomores, end of first semester	.75 (—12 quality points)
end of second semester	.85 (—10 quality points)
Juniors, end of first semester	.90 (— 8 quality points)
end of second semester	.95 (— 6 quality points)
Seniors, both semesters	1.00 (No quality point deficiencies)

Probationary Status

If a student's quality-point ratio drops below the required minimum as indicated, his academic record will be specially reviewed by the Dean and the Advisory Committee. If it is the first occasion, he will be placed on probationary status and he will receive special counseling aid from his schedule advisor and his teachers.

Under some excusable circumstances a student may continue on probation for a second semester by special approval of the Dean and the Advisory Committee. This final probationary status, reported immediately to parents, automatically imposes limitations on the social and recreational activities of the student and requires a reduction in his class-hour load (not more than twelve semester hours of advanced work). Students are advised to re-take courses in which they have received below-average marks and the mark subsequently received will be the only one used to determine the quality points earned in the course. Students on final probation who are unable to show the necessary improvement during the semester may be requested to withdraw from the college.

The Dean's Advisory Committee reviews at the end of each semester the records of students on probation and will remove a student from that status when his current academic record improves to the extent that they become confident that he could carry a normal course load and earn a C average.

Transfers from Other Colleges and Other Advance Standing Students

A student attending another college who desires to transfer to Shippensburg should write to the Director of Admissions. As part of the process of being admitted to Shippensburg he must furnish a statement of honorable dismissal and an official transcript of his academic record from his former college. Advanced credit will be given by the Dean for those courses previously taken and evaluated as

equivalent to those provided in the curriculum of this college.

All advanced credit students seeking a degree or certification fulfillment must plan on:

1. A minimum program of one year's work at Shippensburg.
2. A maximum limit of thirty-two semester hours of course work taken in extension classes.
3. All course selections subject to the prior approval of the Dean.

Students seeking advanced credit should notice the following policies now in effect:

1. Graduates of the former two-year curriculums in Early Childhood, Intermediate, or Rural Education are admitted to junior standing in the present elementary four-year program (if they have a four year high school diploma or its equivalent). Those interested in secondary education will need to earn additional credits.
2. Graduates of State Normal Schools (prior to September 1920) having a valid four year high school diploma, are limited in an evaluation of their credits toward a degree to a maximum of 64 semester hours. Those lacking high school diplomas may apply to the Department of Public Instruction for a high school equivalent certificate which is recognized by the college.
3. Public or private school teaching experience, formerly credited in some instances as high school equivalent, and in others as professional credit toward normal school graduation, can be accepted in any way as meeting the entrance or graduation requirements of a four-year curriculum.
4. No correspondence courses (taken after September 1, 1927) are accepted for credit.

Student Teaching

Student teaching is a most essential part of teacher preparation and at Shippensburg covers a full time assignment for one semester. Learning proper professional attitudes, legal requirements, pupil records, extra-class activities, community contacts as well as classroom techniques are necessary parts of this experience.

All assignments for student teaching are made with the approval of the Dean of Instruction and the Director of Student Teaching. Before assignments are made, students shall meet the following requirements:

1. Shall possess health, personal characteristics, and professional attitudes considered essential for successful teaching.
2. Shall have completed at least 90 semester hours toward graduation.
3. Shall have completed at least one semester at Shippensburg.
4. Shall have completed the pre-requisite courses in Education.
5. Shall have an average of *C* in all work.
6. Secondary students shall have completed at least 18 semester hours in their major and at least 12 semester hours in one minor; Business students shall have completed all but one of the courses in the major and minor field; and both shall have at least a *C* average in such courses.

Experienced non-degree teachers, graduates of other colleges, or others who need special assignments in student teaching will have their individual programs planned and approved by the Dean of Instruction. Credit for student teaching will not be granted for prior teaching experience.

REQUIREMENTS FOR GRADUATION

As a fulfillment of its obligation to the Commonwealth and to its public schools, the College has established high personal and professional standards of achievement and promise for its students which must be met without question before graduation is approved by the faculty or the administration of the college. In so far as a college can evaluate students in these matters, graduates of Shippensburg will have passed rigid appraisals of their degree of loyalty to country, of moral responsibility to youth, and of devotion to high principles of education and citizenship. In addition to these broad professional requirements the College has established the following specific academic requirements:

1. The completion of a minimum of 128 semester hours credit in the selected curriculum.

2. The completion of all courses and course sequence requirements in effect in the selected curriculum.
3. A quality point—semester hour ratio of at least 1.00 for the total program of courses.
4. A quality point—semester hour ratio of at least 1.00 in the major and minor fields of study in Secondary Education, or in the elected sequences in Business Education.
5. A satisfactory history of development in Student Teaching attested to by a minimum grade of *C* and the approval of the Director of Student Teaching.
6. A satisfactory program of extra-curricular activities in each semester of college excepting the semester of student teaching.

An application for graduation must be filed with the Dean of Instruction which includes a request to the Department of Public Instruction for a Provisional Teaching Certificate in the fields or areas in which the graduate is prepared. This certificate is usually presented to students during the graduation ceremony at the same time he is awarded his diploma.

A graduate of the College is expected to participate in the Baccalaureate and Commencement services unless unusual circumstances warrant graduation in absentia. This permission can be granted only by the President of the College.

FACULTY ADVISERS

Students attending this college receive personal and academic advisement and guidance not only from the Dean of Men and Women but also from their classroom teachers who maintain extensive office hours for this purpose. The genuine concern for students and their individual problems by the teachers and the administrators of the college is soon evident to beginning freshmen. They appreciate these considerations for them through their years at college and remember it after graduation. It largely accounts for the exceptional quality of the alumni relations of Shippensburg.

Students know that they are welcome in the office of the head of their department or in the office of the Dean of

Instruction where they may discuss any aspect of their work or their program of studies.

Students with exceptional abilities are encouraged to take special or extra work to develop more fully their talents. Students who experience academic difficulties are aided to ascertain the nature of their problems and assisted in finding a satisfactory solution.

Each student has a faculty schedule adviser who knows his academic record completely and assists him in the selection of a program of courses for each semester prior to registration.

CERTIFICATION OF TEACHERS

To insure a consistently high quality of instruction in the public schools of the Commonwealth, all teachers are required by law to have a teaching certificate, which is a legal permit to teach issued by the Department of Public Instruction to an individual who has completed certain specific course requirements in the area or areas of instruction or grade level indicated.

The curriculums of this college prepare students to receive Provisional College Certificates in Elementary Education, Business Education, Secondary Education, and Public School Nursing. In Business and Secondary Education the certification is specific to those sequences or major and minor fields in which a student has chosen to specialize. The Provisional College Certificate is in effect for three years of teaching only, and must be replaced with the Permanent College Certificate. The Permanent Certificate is issued after the completion of six hours post-graduate work in professional education. While these certifications are legally valid in Pennsylvania only, the educational standards on which they are based are equal to or are higher than those of many other states.

A College Certificate for Elementary Education can be extended to include the teaching of specific subjects in Secondary Education by completing the following:

- a. Twelve semester hours in professional education directly related to secondary teaching (including six semester hours of secondary student teaching).

- b. Eighteen semester hours in the special field such as: English, social studies, math, etc., in which certification is desired.

A College Certificate for Secondary Education can be extended to include Elementary Education by completing thirty semester hours in professional education courses applicable to the teaching in elementary grades (including six semester hours in student teaching in the elementary school).

PLACEMENT

The College maintains a Placement Bureau 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 Bureau early in their senior year. While the Placement Bureau does not guarantee a position, it offers opportunities without cost 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; business education for teaching business subjects in high school; 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.

The professional courses and experiences recognized as basic or required by 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.

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 given college, undergraduates are advised to explore during the junior and senior year the opportunities and requirements for graduate study in their chosen fields to enable them to meet the special requirements wherever possible.

ELEMENTARY CURRICULUM

The Elementary Curriculum at Shippensburg State Teachers College prepares young men and women to teach in the elementary schools of the Commonwealth. The four-year course provides a broad academic background in addition to professional education and leads to the degree of Bachelor of Science in Education.

High school graduates in academic, business, or general courses interested in this curriculum may apply to the Director of Admissions. Admission is based on a general appraisal of high school scholastic records, entrance examinations, and interviews by college personnel.

Elementary Education students share in the broad program of general education provided for all students of the college, including courses in the Humanities, Natural Sciences, and Social Sciences. They are encouraged to grow in skills, knowledges, and understandings necessary to be an informed and contributing member of our democratic society.

Professionally the elementary teacher is taught to be a versatile person. He plans and guides the child's program for the whole day; he must observe the child's application of skills and knowledges accurately and effectively and observe how growth in one area of a child's life is reflected in growth in other areas. He must know how and when to help the child learn to read or to grow in arithmetical skills and to communicate his ideas to others. He must teach Social Studies and Science that result in better understanding as well as increased knowledge. He must bring the creative enrichment of art, music, and literature into the lives of many children who know little about it.

By study, direct observation, and participation they grow in understanding various methods of teaching and become acquainted with skillful use of curriculum materials and specialized equipment. They critically examine various courses of study and the newer techniques of measuring and judging children's social and academic growth. They complete their professional education with a full semester of supervised student teaching.

A graduate of the Elementary Curriculum will receive a College Provisional Certificate permitting him to teach

kindergarten and grades one to six inclusive and in grades seven and eight if they are included in an elementary school program.

The Elementary Education Department occupies a complete wing of Rowland Hall planned specifically for the educational needs of future elementary teachers. It is immediately attached to the Laboratory School where students can observe children from grade one to six whose learning experiences are supervised by six critic teachers. In this nearby Laboratory School, college students in the Elementary Department not only observe but participate in teaching children in such areas as Art, Music, and Health before they accept full time student teaching responsibilities. Additional pre student teaching and regular student teaching experiences are scheduled in the nearby public schools.

ELEMENTARY CURRICULUM

(Sequence of courses subject to change for administrative reasons)

<i>First Semester</i>	<i>Cl. Sem.</i> <i>Hrs. Hrs.</i>	<i>Second Semester</i>	<i>Cl. Sem.</i> <i>Hrs. Hrs.</i>
English I	3 3	English II	3 3
Speech I	2 2	Speech II	2 2
or Communication I (5-5)		or Communication II	
Professional Orientation.	3 3	(5-5)	
Basic Biology	4 3	**Introduction to Art ...	3 2
Health	2 2	Basic Physical Science	4 3
World Geography	3 3	*Physical Education I ..	2 1
	<hr style="width: 50%; margin: 0 auto;"/> 17 16	Geog. of U.S. & Penna..	3 3
		**Introduction to Music .	3 2
			<hr style="width: 50%; margin: 0 auto;"/> 20 16
 <i>Third Semester</i>		 <i>Fourth Semester</i>	
Literature I	2 2	Literature II	2 2
History of Civilization I	3 3	History of Civilization II	3 3
or World Culture I (5-5)		or World Culture II (5-5)	
Music for the Elem. Gr.	2 2	Tchg. of Music in El. Gr.	4 3
Art for Elem. Grades ..	2 2	Tchg. of Art in El. Gr...	4 3
*Physical Education II ..	2 1	*Physical Education III..	2 1
Science for the Elem. Gr.	3 3	Audio-Visual Education.	3 2
Electives	3 3	Electives	2 2
	<hr style="width: 50%; margin: 0 auto;"/> 17 16		<hr style="width: 50%; margin: 0 auto;"/> 20 16
 <i>Fifth Semester</i>		 <i>Sixth Semester</i>	
History of the U.S. & Pa. I	3 3	History of the U.S. & Pa. II	3 3
General Psychology	3 3	Child Development	3 3
Teaching of Reading	3 3	Teaching of Arithmetic..	3 3
Teaching of Language ..	3 3	Teaching of Elem. Science	3 3
Children's Literature	3 3	Tchg. of Soc. Stud. & Geog.	3 3
Teaching of Health	3 2	of Social Living in the	
Electives	0 0	Elem. Gr. (9-9)	
	<hr style="width: 50%; margin: 0 auto;"/> 18 17	Electives	3 3
			<hr style="width: 50%; margin: 0 auto;"/> 18 18
 <i>Seventh Semester</i>		 <i>Eighth Semester</i>	
American Government ...	3 3	Student Teaching and	
Introduction to Philosophy	3 3	Direction of Student	
or Home & Family Living		Activities	30 12
Educational Psychology		Professional Practicum	
and Evaluative Techni-	3 3	including School Law..	2 2
ques	3 3		<hr style="width: 50%; margin: 0 auto;"/> 32 14
Electives	6 6		<hr style="width: 50%; margin: 0 auto;"/> 15 15
	<hr style="width: 50%; margin: 0 auto;"/> 15 15	GRAND TOTAL	128

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

**All or any part of these courses may be scheduled as a part of the unit in World Culture and the corresponding semester hours added to World Culture.

A student may be given the privilege of taking an examination in any subject matter area in which he registers 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.

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.

	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
Educational Measurements	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 teachers for secondary schools provides a broad general and professional education program which is considered desirable and necessary for teachers in junior and senior high schools where young people are prepared for both citizenship and for a profession or an occupation. The graduates of this curriculum are fully informed concerning man's cultural inheritances, his spiritual and moral development, his biological evolution, and his scientific discoveries. They are aware of the effect of education in all stages of man's historic development; and they study comprehensively the contemporary world with its ongoing problems stemming from the past and those particular to the present, and thoughtfully determine the responsibilities education must assume in preparing young people for the contemporary American society.

All Secondary Curriculum students engage in a common program in the study of man's thinking and learning processes and his observable variations in abilities. They also study modern schools, educational procedures, methods and objectives, and complete their education with a full semester's program of supervised student teaching.

The Secondary Education Curriculum also includes in its four-year program of preparation a large amount of study in the traditional fields of learning in which the student may specialize with a major or minor and in which he can be certified to teach. These are the following:

English	Mathematics
Speech	Sciences:
History	a. Physics
Social Studies	b. Chemistry
Geography	c. Biology
Languages	

A student in this curriculum will elect to major in one of these fields and a minor in another. He will schedule courses under faculty advisement which enable him to complete the proper course sequences and requirements needed for graduation and certification in each.

The following pages list the general course requirements for all students and, in addition, show the required courses and electives with the minimum hours needed for a major or a minor in each area of specialization.

SECONDARY CURRICULUM

General Education Program For All Students

(Sequence of courses subject to change for administrative reasons)

		<i>Cl. Sem.</i>				<i>Cl. Sem.</i>	
<i>First Semester</i>		<i>Hrs.</i>	<i>Hrs.</i>	<i>Second Semester</i>		<i>Hrs.</i>	<i>Hrs.</i>
English I	3	3		English II	3	3	
Speech I	2	2		Speech II	2	2	
or Communication I (5-5)				or Communication II (5-5)			
Basic Biology	4	3		Basic Physical Science..	4	3	
Health	2	2		*Physical Education I ..	2	1	
World Geography	3	3		Professional Orientation	3	3	
ELECTIVES	2	2		Fundamentals of			
				Mathematics	3	3	
	16	15		ELECTIVES	2	2	
					19	17	
<i>Third Semester</i>				<i>Fourth Semester</i>			
Literature I	2	2		Literature II	2	2	
History of Civilization I	3	3		History of Civilization II	3	3	
or World Culture I				or World Culture II (5-5)			
(5-5)				**Introduction to Music.	3	2	
**Introduction to Art ...	3	2		*Physical Education III.	2	1	
*Physical Education II..	2	1		ELECTIVES	9	9	
†Science in Modern Civ.	3	3			19	17	
ELECTIVES	6	6					
	19	17					
<i>Fifth Semester</i>				<i>Sixth Semester</i>			
History of the U.S. & Pa. I	3	3		History of the U.S. & Pa. II	3	3	
General Psychology	3	3		Educational Psychology &			
Audio-Visual Education..	3	2		Evaluative Techniques.	3	3	
ELECTIVES	8	8		Problems of Secondary Ed.			
	17	16		including Guidance....	3	3	
				ELECTIVES	7	7	
					16	16	
<i>Seventh Semester</i>				<i>Eighth Semester</i>			
American Government ..	3	3		Student Teaching & Direction			
Introduction to				of Student Activities ..	30	12	
Philosophy	3	3		Professional Practicum			
or Home & Family Living				including School Law..	2	2	
ELECTIVES	10	10			32	14	
	16	16		GRAND TOTAL		128	

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

**All or any part of these courses may be scheduled as part of the unit in World Culture. If combined, the semester hours devoted to World Culture will be correspondingly increased.

†Required when a Science is not first field of specialization.

A student may be given the privilege of taking an examination in any subject matter area in which he registers 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.

SECONDARY CURRICULUM

Areas of Specialization

<p style="text-align: center;">BIOLOGICAL SCIENCE (First field 30 S.H.; Second field 18 S.H.)</p> <p>Students demonstrating competence to specialize in Biological Science will not be required to take Basic Biology.</p>	<p style="text-align: right;"><i>Cl. Sem.</i> <i>Hrs. Hrs.</i></p> <p>Literature I 2 2 Literature II 2 2 *Teaching English in Secondary Schools 3 3</p>
<p><i>Cl. Sem.</i> <i>Hrs. Hrs.</i></p> <p>(Required)</p>	<p>(Restricted Electives)</p> <p>At least one course must be selected from each of Groups 1, 2, 3, and 4.</p>
<p>Botany I 6 4 Botany II 6 4 Zoology I 6 4 Zoology II 6 4 *Teaching Science in Secondary Schools 3 3</p>	<p>Group 1. Survey Courses:</p> <p>American Literature 3 3 English Literature 3 3 American Poetry 3 3 American Prose 3 3 Children's Literature ... 3 3</p>
<p>(Electives)</p> <p>(At least one course to be selected from each group below.)</p>	<p>Group 2. Period Courses:</p>
<p>Group 1. Field Course</p> <p>Field Botany 5 3 Ornithology 5 3 Entomology 5 3 Ecology 5 3 Field Zoology 5 3</p>	<p>Pre-Shakespearean Literature 3 3 Shakespeare 3 3 Eighteenth Century Literature 3 3 The Romantic Movement. 3 3 Victorian Literature 3 3</p>
<p>Group 2. Laboratory Courses</p>	<p>Group 3.</p>
<p>Vertebrate Anatomy 5 3 Physiology 5 3 Microbiology 5 3 Parasitology 5 3 Genetics 5 3</p>	<p>Literary form Courses:</p> <p>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</p>
<p style="text-align: center;">CHEMISTRY (First field 35 S.H.; Second field 18 S.H.)</p> <p>Students demonstrating competence to specialize in Chemistry will not be required to take Basic Physical Science.</p>	<p>Group 4. Composition:</p>
<p>(Required)</p>	<p>Creative Writing 3 3 Journalism 3 3 Advanced Composition .. 3 3 English Philology and Grammar 3 3</p>
<p>Inorganic Chemistry I ... 6 4 Inorganic Chemistry II.. 6 4 Physics I 6 4 Physics II 6 4 Qualitative Analysis I... 7 3 Quantitative Analysis II. 7 3 *Teaching Science in Secondary Schools 3 3</p>	<p style="text-align: center;">FRENCH (First field 24 S.H.; Second field 18 S.H.)</p> <p>(Required)</p> <p>French I 3 3 French II 3 3 French III 3 3 French IV 3 3</p>
<p>(Electives)</p>	<p>(Electives)</p>
<p>Organic Chemistry I 6 4 Organic Chemistry II ... 5 3 Physical Chemistry 5 3 Industrial Chemistry ... 5 3</p>	<p>French V—Survey of Literature 3 3 French VI—Survey of Literature 3 3 French VII—Advanced Language & Techniques 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</p>
<p style="text-align: center;">ENGLISH (First field 35 S.H.; Second field 18 S.H.)</p>	
<p>English I 3 3 Speech I 2 2 or Communication I (5-5) English II 3 3 Speech II 2 2 or Communication II (5-5)</p>	

*Required when this is the first field of specialization.

THE 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, Basic Physical Science.

Cl. Sem.
Hrs. Hrs.

(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 Secondary Schools	3	3

GENERAL SPEECH

(First field 24 S.H.;

Second field 18 S.H.)

(Required)

Speech I	2	2
Speech II	2	2
Phonetics and Voice	3	3
Oral Interpretation	3	3
Play Production	3	3
*Teaching Speech in Secondary Schools	2	2
(Electives)		
Stagecraft, Scenic Design and Lighting	3	3
Debate, Group Discussion and Parliamentary Procedure	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

GEOGRAPHY

(First field 24 S.H.;

Second field 18 S.H.)

(Required)

World Geography	3	3
*Teaching Geography in Secondary Schools	3	3
(Restricted Electives)		
At least one course must be chosen from each group.		
Group 1. Earth Studies		
Climatology	3	3
Geology	3	3
Meteorology	3	3
Physiography	3	3
Cartography	3	3

Cl. Sem.
Hrs. Hrs.

Group 2. Economic

Economic Geography ...	3	3
Commercial Air Trans- portation	3	3
Conservation of Natural Resources	3	3
Geographic Influence in American History	3	3
Trade and Transportation	3	3
Group 3. Regional Studies		
Geography of Penna.	3	3
Geography of Asia	3	3
Geography of Africa and Australia	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 approved)	3	3

HISTORY

(First field 30 S.H.;

Second field 18 S.H.)

(Required)

History of Civilization I.	3	3
History of Civilization II	3	3
History of United States and Pennsylvania I ..	3	3
History of United States and Pennsylvania II ..	3	3
*Teaching Social Studies in Secondary Schools ..	3	3
(Restricted Electives)		
At least one course must be chosen from each group.		
Group 1. United States History		
Contemporary United States History	3	3
American Constitutional History and Law	3	3
Diplomatic History of the United States	3	3
Group 2. European History		
History of Europe to 1815	3	3
History of Europe since 1815	3	3
Contemporary European History	3	3
Renaissance and Reformation	3	3
Group 3. Regional History		
History of Pennsylvania.	3	3
History of England	3	3
History of the Far East.	3	3
History of Middle East..	3	3
History of Latin America	3	3
History of the Twentieth Century World	3	3

*Required when this is the first field of specialization.

MATHEMATICS

(First field 24 S.H.;

Second field 18 S.H.)

Students demonstrating competence to specialize in Mathematics will not be required to take Fundamentals of Mathematics.

Cl. Sem.
Hrs. Hrs.

(Required)

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 Mathematics	3	3
Calculus III	3	3
Mathematics of Finance ..	3	3
Differential Equations ..	3	3

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 Secondary Schools	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.

PHYSICS

(First field 35 S.H.;

Second field 18 S.H.)

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

(Required)

Physics I	6	4
Physics II	6	4
Inorganic Chemistry I ..	6	4
Inorganic Chemistry II ..	6	4
*Teaching Science in Secondary Schools	3	3

*Required when this is the first field of specialization.

Cl. Sem.
Hrs. Hrs.

(Electives)

Magnetism & Electricity	6	4
Mechanics	6	4
Heat	6	4
Electronics	5	3
Atomic Physics	5	3
Optics	5	3
Sound	5	3
Physical Measurements	Variable	

SPANISH

(First field 24 S.H.;

Second field 18 S.H.)

(Required)

Elementary Spanish I and II	6	6
Intermediate Spanish I and II	6	6
Introduction to Spanish Literature	3	3
Spanish Conversation ...	3	3

(Electives)

Advanced Spanish Con- versation	3	3
Commercial Spanish	4	4
Spanish-American Literature	6	6
Contemporary Spanish Drama	6	6

SOCIAL SCIENCE

(Second field only 18 S.H.)

(Required)

Principles of Sociology ..	3	3
Principles of Economics ..	3	3
(Restricted Electives)		
At least one course must be chosen from each group.		
Group 1. Sociology & Economics		
Contemporary Social Problems	3	3
Contemporary Economic Problems	3	3
Industrial Relations	3	3
Group 2. Political Science		
Comparative Government	3	3
State and Local Government	3	3
International Relations ..	3	3
United Nations: Organ- ization & Function ...	3	3

SOCIAL STUDIES

(First field 36 S.H.;

Second field 24 S.H.)

(Required)

History of Civilization I ..	3	3
History of Civilization II	3	3
History of United States and Pennsylvania I ...	3	3
History of United States and Pennsylvania II ...	3	3
American Government ..	3	3
Home & Family Living or Introduction to Philosophy	3	3
Principles of Economics ..	3	3

	<i>Cl. Sem.</i>	<i>Hrs. Hrs.</i>
Principles of Sociology..	3	3
*Teaching Social Studies in Secondary Schools ..	3	3
(Restricted Electives)		
At least one course must be chosen from each group.		
Group 1. Sociology and Economics		
Contemporary Social Problems	3	3
Contemporary Economic Problems	3	3
Industrial Relations	3	3
Group 2. Political Science		
Comparative Government	3	3
State and Local Government	3	3
International Relations ..	3	3

	<i>Cl. Sem.</i>	<i>Hrs. Hrs.</i>
United Nations: Organ- ization and Function ..	3	3
Group 3. History		
History of Europe to 1815	3	3
History of Europe since 1815	3	3
History of the Far East..	3	3
History of Latin America	3	3
History of Pennsylvania.	3	3
Other History electives as ap- proved by the Social Studies Department.		
*Required when this is the first field of specialization.		

Special Interpretations by Board of Presidents:

CHEMISTRY—"Students who select Chemistry as a First Field with Physics as a Second Field may count the required hours in Physics I and II towards the Second Field thereby reducing the First Field to 27 hours. If any area other than Physics is the Second Field, Physics I and II will be taken as a part of the First Field in addition to the required 24 credits in Chemistry and 3 credits in Teaching of Science in the Secondary School thereby making the total credits 35 hours."

PHYSICS—"Competency in Mathematics to carry the work of Physics is expected as a prerequisite for specialization in Physics as a first field. Courses in College Algebra and Trigonometry are recommended."

"Students who select Physics as a First Field with Chemistry as a Second Field may count the required hours in Chemistry I and II towards the Second Field thereby reducing the First Field to 27 hours. If any area other than Chemistry is the Second Field, Chemistry I and II will be taken as a part of the First Field in addition to the required 24 credits in Physics and 3 credits in Teaching of Science in the Secondary School thereby making the total credits 35 hours."

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: Combined, Secretarial, Retail Selling, and Accounting. The combined sequence leads to certification in the three major fields of business—shorthand, type-writing, 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 and office machines, 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, addressograph, graphotype, and other up-to-date office appli-

ances enable the student to obtain both a theoretical knowledge of and 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 teachers of business subjects—shorthand, typewriting, bookkeeping far exceeds 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.

CURRICULUM IN BUSINESS EDUCATION

(Sequence of courses subject to change for administrative reasons)

BASIC FIRST YEAR

<i>First Semester</i>	<i>Cl. Sem.</i>		<i>Second Semester</i>	<i>Cl. Sem.</i>	
	<i>Hrs.</i>	<i>Hrs.</i>		<i>Hrs.</i>	<i>Hrs.</i>
English I	3	3	English II	3	3
Speech I	2	2	Speech II	2	2
or Communication I (5-5)			or Communication II (5-5)		
Introduction to Art	3	2	Introduction to Music	3	2
Basic Biology	4	3	Basic Physical Science ..	4	3
Health	2	2	Physical Education I	2	1
Business Mathematics I..	3	3	Accounting I	4	3
Economic Geography	3	3	Professional Orientation.	3	3
	20	18		21	17

<i>Third Semester</i>	<i>Combined Sequence</i>		<i>Stenog. Sequence</i>		<i>Acct. Sequence</i>		<i>Retail Sell. Sequence</i>	
History of Civilization I	3	3	3	3	3	3	3	3
Literature I	2	2	2	2	2	2	2	2
or World Culture I (5-5)								
Sales and 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
ELECTIVES	—	—	3	3	—	—	3	3
	22	17	21	17	18	14	21	17

Fourth Semester

Economics I	3	3	3	3	3	3	3	3
Literature II	2	2	2	2	2	2	2	2
or World Culture II (5-5)								
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
Retail Selling II (Advertising)	—	—	—	—	—	—	3	3
ELECTIVES	—	—	3	3	3	3	3	3
	21	17	21	17	20	17	20	17

Fifth Semester

Educational Psychology and Evaluative Tech.	3	3	3	3	3	3	3	3
Shorthand III	4	3	4	3	—	—	—	—
Typewriting III	4	2	4	2	—	—	—	—
Accounting IV	3	3	—	—	3	3	—	—
Business Law I	3	3	3	3	3	3	3	3
Problems of Business Education	3	3	3	3	3	3	3	3
Retail Selling III (Marketing)	—	—	3	3	4	4	4	4
ELECTIVES	—	—	—	—	—	—	—	—
	20	17	20	17	16	16	13	13

Sixth Semester

Business Correspondence	2	2	2	2	2	2	2	2
Secretarial Practice	3	2	5	2	—	—	—	—
Business Law II	3	3	3	3	3	3	3	3
Economics II	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
Retail Selling IV (Retail Store Management)	—	—	—	—	—	—	3	3
ELECTIVES	—	—	—	—	2	2	—	—
	17	15	19	15	16	15	17	16

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 & 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 the United States & Pennsylvania	3	3	3	3	3	3	3	3
	15	13	15	13	18	16	15	13

<i>Eighth Semester</i>	<i>Combined Sequence</i>		<i>Stenog. Sequence</i>		<i>Acct. Sequence</i>		<i>Retail Sell. Sequence</i>	
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
	<u>32</u>	<u>14</u>	<u>32</u>	<u>14</u>	<u>32</u>	<u>14</u>	<u>32</u>	<u>14</u>

A student may be given the privilege of taking an examination in any subject matter area in which he registers 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.

DENTAL HYGIENIST CURRICULUM

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 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:

A. Education	11
(1) Professional Orientation	3
(2) General Psychology	3
(3) Educational Psychology and Evaluation 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)	
Communication 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 II....	(3-3)
World Culture II	5
and Literature II	(2-2)
and History of Civilization I....	(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 NURSING CURRICULUM

The importance of the Public School Nurse with her wide range of school and community health duties is growing each year. The Shippensburg State Teachers College provides each year, especially in Summer Sessions, regular sequences of courses enabling graduates of a regular three-year nursing program who are registered nurses in the Commonwealth to complete the certification requirements and receive a Bachelor of Science Degree in Public School Nursing.

Nurses entering this curriculum will complete a program of forty-five semester hours of professional course work organized 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
		<hr/>
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
		<hr/>
Total		24
C. Electives		6
		<hr/>
GRAND TOTAL		45

Many nurses enrolling in this curriculum secure a public school nursing position on a temporary certification basis after an initial summer of twelve hours of specified course work. By continuing in subsequent Summer Sessions and Saturday classes these students complete the forty-five hour requirement and receive the Bachelor of Science degree and college certification. Nurses without a complete three year training program will need additional courses. A special bulletin on the Public School Nursing Curriculum is available from the Director of Admissions.

COURSES OF INSTRUCTION

THE ARTS

ART

Introduction to Art

Introduction to Art is a course dealing with art as a vital part of contemporary living. The art of other ages is given some consideration as a basis for interpreting the present. Students are encouraged to experiment with materials in order to understand the creative processes. Through a variety of experiences an attempt is made to help the students develop an awareness of and a sensitiveness to all forms of art.

2 semester hours

Non-Credit Art

The non-credit course in art skills is designed to prepare students who have had limited or no art experience for entrance into Elementary Art courses. This course is required of all students whose art backgrounds appear to be insufficient for them to pursue the professional courses with profit. This course is usually given for the length of time determined by the student's needs.

2 class periods per week. No credit

Art for the Elementary Grades

This course is planned to give the students an understanding of the place of art in the elementary school program. It also gives the students experience in planning art lessons and in doing freehand or creative drawing and composition in the various media which would be used in the elementary schools.

2 semester hours

Teaching Art in the Elementary Grades

This course gives the students experience in planning and executing three dimensional or craft problems suitable for the elementary grades. Opportunity is given to experiment with a wide range of materials. Emphasis is placed upon the integration of art education with other school subjects.

3 semester hours

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 in providing better art instruction.

3 semester hours

Creative Art

The course in Creative Art is designed to develop an understanding of art as a creative expression and as it functions in the modern curriculum. The students have opportunity to plan and participate in integrated units of activity through which they build up a background of philosophical, factual and technical material necessary for stimulating children to self-expression.

3 semester hours

MUSIC

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 better living. Through the use of recordings, radio, television, concerts, sound films, and other media, every possible contact is made with music, both present and historic. Correlation with other subjects, particularly Art and Literature, is explored. This course is required of all freshmen in general education. No prerequisite courses or special abilities are required.

2 semester hours

Prerequisite Music

This course provides a study of musical notations and terminologies. Experience in syllable sight singing, two part singing, and matching tones is included. Students will continue in this course until a level of achievement is developed satisfactory for entrance into the course—Music for the Elementary Grades. no credit

Music for the Elementary Grades

This course prepares the elementary teacher in the use of the musical media needed for teaching music in the

elementary grades under supervision. The course includes study in sight singing with syllables, numbers, and letter names, two part singing, learning to play and use the tonette for furthering its use in the elementary grades. This course also includes study of musical notation, including major and minor keys, learning how to use the tonic, dominant, and sub-dominant chords, oral and written tonal dictation for ear training. The best and most practical methods are used and discussed in presenting this material.

2 semester hours

Teaching Music in the Elementary Grades

This course is designed to teach the elementary teacher how to carry on a well rounded music program in the elementary school under supervision. Included are methods and procedures used in teaching rote songs, chants, sight reading, practice and experience in use of the autoharp, rhythm instruments, musical bells, etc., learning to play easy accompaniments on the piano, learning to make simple accompaniments for the autoharp. Stress is placed on the singing of two and three part music. Prerequisite: Music for the Elementary Grades.

3 semester hours

Instruction on the Pipe Organ

This course is open to beginners or advanced students in music. Those admitted to this course must be able to read piano music accurately. The course covers the study of organ music applicable to use in church, home, school and community. The college organ is available for practice and instruction. An additional fee is charged for this opportunity.

no credit

BUSINESS EDUCATION CURRICULUM

Required Business Courses for All

Business Education Students

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



HORTON HALL



ALUMNI GYMNASIUM

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

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

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

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

Business Organization and Finance

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

2 semester hours

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

Business Law I

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

3 semester hours

Business Law II

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

3 semester hours

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

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

Problems of Business Education

The purposes of secondary business education; the curriculum and its development; guidance, placement, and followup; administration of the business department; physical layout, equipment, and supplies; trends in business education.

3 semester hours

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

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 procedure. 3 semester hours

Accounting III

Fundamental principles of accounting theory and practice as they affect the corporate business unit; surplus, reserve capital accounts, and income determination. 3 semester hours

Accounting IV

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

Accounting V

Various forms of business combinations; analysis of financial statements; receiverships; governmental and insurance accounting; consolidations and mergers; consolidated balance sheets, income, and surplus statements. 3 semester hours

COURSES REQUIRED IN THE STENOGRAPHIC SEQUENCE

Shorthand I

Principles of Gregg Shorthand Simplified completed; development of reading and writing skills; dictation at 60 to 70 words per minute; teaching techniques. 3 semester hours

Shorthand II

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

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

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

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. 2 semester hours

Secretarial Practice

Theory and practice in common stenographic and secretarial activities; dictation of materials from various types of businesses; advanced treatment of business problems, office etiquette; duplicating. 2 semester hours

COURSES REQUIRED IN THE

RETAIL SELLING SEQUENCE*

Retail Selling II (Advertising)

Acquaintance with the social and economic aspects of advertising; favorable and unfavorable features; consumer reaction; copy appeal; advertising layout; media and advertising art. 3 semester hours

Retail Selling III (Marketing)

A study of the problems of marketing, especially from the point of view of the consumer is made; topics include sources of supply, trade channels, production and distribution problems, public relations, sales promotion and wholesale merchandising. 3 semester hours

Retail Selling IV (Retail Store Management)

Emphasis on small business; retail store management; organization and maintenance; personnel selection and

training; problems in store location; business policies; sales and advertising promotion, pricing and business policies; sales and advertising promotion; pricing and expense control, and credit. 3 semester hours

Office Management (Elective)

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

3 semester hours

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

EDUCATION

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. Directed observation of various schools and learning situations will be required. 3 semester hours

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

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 of 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

Adolescent Psychology

The growth and development of the adolescent is traced in each of the five ways of growing up—physically, mentally, socially, emotionally, and spiritually. Attention is given to the problems of adolescents and how the teacher may recognize and deal with them.

Audio-Visual Education

A study of audio-visual and other sensory methods and techniques as they reveal the means of creating real, meaningful experiences gained through pupil participation. Students learn to operate audio-visual equipment, learn to make a variety of audio-visual aids, and learn to use teaching aids in the classroom. Volunteer opportunities for additional learning and practice in the sensory learning field are available. 2 semester hours

Introduction To Philosophy

This course surveys four major philosophies of living and their implications for modern day living. A study is made of the thoughts and ideas of ancient, medieval, and present-day philosophers in each of the four major philosophies in an effort to answer the question "What is the worth-while life?" Ethical values are stressed.

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

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

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

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

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

Teaching the Exceptional Child

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

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

ELEMENTARY EDUCATION**Teaching of Reading**

Careful study of theory and methods as applied to a developmental program of instruction in reading. The scope of the elementary reading program. The sequence of skill development. Examination of research in reading and of materials for instruction. Observations in the Laboratory School. 3 semester hours

Teaching of Language

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

Teaching of Children's Literature

An introduction to important children's books, old and new, and techniques for the presentation of book materials. Wide reading of juvenile literature. Criteria for and experience with the evaluation of children's books.

3 semester hours

Teaching of Elementary Science

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

3 semester hours

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

Teaching of Arithmetic

Study of the history and development of our number system. Application of principles of teaching and learning to experience in numbers with emphasis on both social and mathematical phases. Introduction to sequential order of arithmetic recommended for each grade level.

3 semester hours

Child Development

Acquisition of understanding and appreciation of the patterns of physical, mental, social, and emotional growth in childhood. Observation of living and learning situations in the family, school, and community environments.

3 semester hours

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 experiences in art, music, and literature.

3 semester hours

Diagnostic and Remedial Reading

Acquaintance with recent research in the field of reading. Problems and needs common to incompetent readers. Successful materials and techniques for dealing with such problems. Demonstration and practice in testing, planning, and implementing remedial programs with groups and individuals. Prerequisite: Teaching of Reading.

3 semester hours

Diagnostic and Remedial Arithmetic

A study of the various means of enabling a child who has difficulty with arithmetic to become more competent. History of the development of our number system, whole numbers, common and decimal fractions, percentage, measurement, and graphs. Methods for developing facility in computing and a measure of insight into the meaning and significance of numbers.

3 semester hours

Child Adjustment

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

3 semester hours

School and Community

A study of the role of the school in the community, of group and intergroup activities and the part played by the individual in the group. An analysis of the forces at work and the resources available within both school and community. Possible means of developing a desirable program of school and community relationships.

3 semester hours

Tests and Measurement for the Elementary School

Methods and techniques of measurement as applied in elementary schools. Study of tests, both standardized and

teacher-made. Study of testing programs, interpretation of test results, statistical measures of central tendency and of variability. Emphasis on use of measurement as an aid to teaching. 3 semester hours

Pre School Education

A study of the pre-school and kindergarten age level child, of the history, theory and practices of the nursery school and kindergartens. An acquaintance and evaluation of appropriate materials and equipment. Observation of pre-school and kindergarten age children. 3 semester hours

ENGLISH—SPEECH

English I

Review of grammar in detail, analysis of construction, 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

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

Advanced English Grammar

A practical, descriptive approach to English grammar and syntax. Thorough training in sentence diagramming and analysis is offered, with emphasis on usage and diction. 3 semester hours

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

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

Literature I

An introduction to literature, 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

Literature II

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

English Literature

A survey course 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

American Literature

A survey of representative American writings from colonial times to the present, with stress given those writings which best exemplify democratic ideals and national character. 3 semester hours

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

English Philology

An introduction to the scientific and historical study of the development of modern English and the discernible trends in language today through the use of exercises in phonetics, etymology, and dictionary usage.

3 semester hours

Advanced Composition

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

3 semester hours

Shakespeare

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 to those plays most frequently included in the secondary school curriculum.

3 semester hours

Short Story

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

3 semester hours

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

Contemporary Poetry

An examination of representative poetry published since 1870 in both England and America, providing 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

Victorian Literature

A study of Victorian Culture 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

Journalism

The organization, management, and supervision of the content of school publications; the preparation of school publicity materials, and the development of journalistic style through practical participation in journalistic activities. 3 semester hours

Pre-Shakespearean Literature

A study of the cultural background 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

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

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

American Poetry

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

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

Eighteenth Century Literature

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

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

Literary Masterpieces

A study of as many great masterpieces of literature as time permits with a minimum emphasis on extraneous values. Emphasis on the "Great Books" idea; the literature; the intrinsic, aesthetic, and cultural values. 3 semester hours

Teaching of English in Secondary Schools

A review of the language-arts requirements of the secondary schools 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

Oral Interpretation

This course emphasizes understanding and appreciation of literature through the improvement of diction and the development of skill in reading aloud. Aid is given in selecting, adapting, and preparing types of literature for oral presentation; special attention is given to reading materials required of the classroom teachers. A series of radio programs may well originate in this course. 3 semester hours

Phonetics and Voice

A study of the speech mechanism, phonetic symbols, analysis of speech sounds, causes and treatment of voice disorders, and methods of improving voice and diction. The work will be geared to the needs of teachers both inside and outside the classroom. 3 semester hours

Play Production

An introductory course in the theory and practice of the various phases of play production designed to meet the needs of the teacher who may be called upon to direct school dramatics. There will be special emphasis on learning by doing in the areas of acting and directing and make-up. 3 semester hours

Radio I

Utilizes a school radio workshop emphasizing script writing, production and operation. The course deals with radio as a resource for the classroom teacher in oral interpretation and diction, using live programs, transcriptions and recordings. 3 semester hours

Speech Problems

A course developed with a view to enabling the prospective teacher to recognize speech disorders commonly encountered in the classroom, to help those pupils whose speech problems are of a functional nature to improve their speech, and to help the severely speech-handicapped pupil to live gracefully with his problem so long as it continues. 3 semester hours

Creative Dramatics

A study of—and practice in—classroom use of informal dramatization of literature, dramatic play, and all other extemporaneous drama. 3 semester hours

GEOGRAPHY**World Geography**

A basic course organized to develop a knowledge and an appreciation for the physical environment of the world. The course stresses the existing relationships and interdependence of man to his material environment.

World patterns of climate, landforms, soils, natural vegetation, drainage, etc., are emphasized in their relationship upon Man's culture and his modification of these factors. The effect of these factors upon economic utilization of his natural environment is part of the basic understanding. 3 semester hours

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

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

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

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. Prerequisite: World Geography. 3 semester hours

Geography of Asia

An economic study of the major geographic regions of the Soviet Union in Asia, 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

Climatology and Meteorology

A systematic study of the climate regions of the world and the advantages and limitations of each for man's occupation. The physical aspects of the atmosphere, and the regional characteristics of climate are investigated. The course analyzes the laws and underlying principles of atmospheric changes. 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

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 sources, and their effect on man. Prerequisite: World Geography.

3 semester hours

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

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, railroad, sea routes, air lanes; and to the problems of the modern cities and the tendency for decentralization.

3 semester hours

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, the Geography of United States and Pennsylvania. 3 semester hours

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. 3 semester hours

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

Geography of the Far East

A study of Japan, China, the Philippines, 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

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.

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

Teaching Geography in Secondary Schools

A survey of available materials and current curriculums 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 textbooks and courses contributing to these objectives.

3 semester hours

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. May be substituted for World Geography.

3 semester hours

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 and instruction in archery, badminton, basketball, touch football, hockey, soccer, soft ball, swimming, table tennis, tennis, volleyball, and wrestling. An intramural program is offered in the following sports: table tennis, tennis, swimming, hockey, softball, wrestling, and basketball. 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.

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 each

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. First Aid is an integral part of the course.

2 semester hours

Teaching of Health

In physical education the activities suitable for grades one to six are presented. The method 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

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

French III and IV

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

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

Survey of French Literature II

This course is a continuation of French Literature I. 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

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. Elementary phonetics are introduced. 3 semester hours

French Classical Drama

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

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

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

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, art, sciences, music and literature. 3 semester hours

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**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

Intermediate Spanish III and IV

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

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

Spanish Conversation

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

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

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

Spanish Drama I

A study of the development of Spanish drama from the Middle Ages up to the eighteenth century is made. Special emphasis is placed on all drama of the Golden Age. Representative plays are studied and analyzed. 3 semester hours

Spanish Drama II

This course is a continuation of Spanish Drama I. It begins with a study of the drama of the eighteenth century and continues up to the present. Special emphasis is placed on the drama of the nineteenth century. Representative plays are studied and analyzed. 3 semester hours

Commercial Spanish

Business letters and practices in correlation with the work of the Business Education Department form the basis of this course. 3 semester hours

GERMAN**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

Fundamentals of Mathematics

Intended primarily to broaden the mathematical background of teachers who are not majoring or minoring in mathematics, this course includes topics in the development of the number system; applications of the fundamental processes; extensions of the number system to include fractions and negative numbers; approximate nature of measurements; the language of algebra with formula, graphs, tables, and equations; meaning of proof; elementary concepts of statistics; indirect measurement; common applications of geometry; installment buying; and additional topics of interest to students. 3 semester hours

College Algebra

This course is basic to all students majoring or minoring in mathematics, and it is advised for majors in the physical sciences. Among the topics considered are fundamental operations, factoring, fractions, exponents, functions and their graphs, linear and quadratic equations, systems of equations, proportion and variation, progressions, mathematical induction, determinants, permutations and combinations. Prerequisites: 1 year of high school algebra and 1 year of high school geometry. 3 semester hours

Trigonometry

The analytical as well as the applied aspects of this course are stressed. Included among other topics are functions of an angle, logarithms, use of tables, radian measure, identities, trigonometric and exponential equations, solution of triangles by natural functions and by logarithms, inverse functions, and complex numbers. Prerequisite: College Algebra. 3 semester hours

Analytic Geometry

Algebra, trigonometry and geometry are combined in finding equations of loci and in finding loci corresponding

to certain equations; in studying properties of the straight line and conic sections, exponential and inverse functions, rectangular and polar coordinates, transformation of coordinates, parametric equations, with a brief introduction to the geometry of three dimensions. Prerequisites: College Algebra and Trigonometry. 3 semester hours

College Algebra - Trigonometry - Analytic Geometry

These three courses described above are actually taught as one course during the freshman year. They cannot be taken individually. 9 semester hours

Calculus I

Of prime importance are the mathematical concepts of limit and continuity. Having mastered these, the student progresses to study maxima and minima, rates, velocity, acceleration, and learns to find the derivative of a variety of functions. Integration of polynomial functions is introduced early. Prerequisite: Analytic Geometry. 3 semester hours

Calculus II

Various techniques and applications of integration based upon the fundamental theorem enable students to compute areas, volumes, arc length, and other practical results from a variety of functions expressed in rectangular, parametric, or polar form. Series and hyperbolic functions are studied. Prerequisite: Calculus I. 3 semester hours

Statistics

In this course are considered the basic principles and methods of statistics common to scientific research. Practice is provided in the use of graphs, frequency distributions, measures of central tendency and dispersion, the normal curve, correlation, regression and prediction, reliability of statistical measures, curve fitting, and the development of formulas. Prerequisite: College Algebra. 3 semester hours

Advanced College Algebra

Competence is stressed in working with equations of higher degree, determinants, partial fractions, series, complex numbers, permutations, combinations and probability, and the algebra of groups. Prerequisite: College Algebra. 3 semester hours

Synthetic Geometry

To coordinate and extend skills in geometry and to develop ability to make constructions of a higher order are objectives of this course. Aims and techniques of teaching geometry are emphasized. 3 semester hours

History of Mathematics

This is a study of the growth of mathematics through the centuries, and of the men who contributed to it. Such a study enriches the mathematical background of students and makes the integration of basic areas of mathematics meaningful. Prerequisite: Analytic Geometry. 3 semester hours

Field Work in Mathematics

Field practice is applied to the enrichment of secondary school mathematics. Students have an opportunity to use a transit, angle mirror, hypsometer, sextant, and other measuring devices, to make simple maps, and to perform elementary surveying. Students are expected to make and to use simple instruments and teaching devices. Prerequisite: College Algebra. 3 semester hours

Spherical Trigonometry and Navigation

This course is a study of right and oblique spherical triangles with much emphasis on their practical application, particularly in the field of navigation. Prerequisite: Trigonometry. 3 semester hours

Calculus III

A further study of series, partial differentiation, multiple integrals, and elementary differential equations with applications, constitute the topics investigated. Prerequisite: Calculus II. 3 semester hours

Mathematics of Finance

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

Differential Equations

The emphasis in this course is primarily upon the solution of first and second order differential equations, though a number of other topics are considered. Specific techniques are learned and applied to problems in physics, chemistry and engineering. Prerequisite: Calculus II.
3 semester hours

Teaching of Mathematics in the Secondary School

Students learn of the place and function of mathematics in secondary education; of the content, improvement and evaluation of instruction in mathematics; they become acquainted with current literature and research; they lay out courses of study, plan lessons and teach therefrom paying attention to the classroom techniques conducive to effective learning; they observe mathematics classes in secondary schools. Prerequisites: 9 hours of college mathematics.
3 semester hours

SCIENCE

Biology

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

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

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

Zoology II

This course is a study of the Chordata in general, and more particularly the classes of Vertebrates. Topics studied 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

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

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

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

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

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

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. Some emphasis is given the ecological aspects of plant groups. 3 semester hours

Field Zoology

Field and laboratory studies of the animal life of this region are made. 3 semester hours

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

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

Inorganic Chemistry I

This course includes a chemical study, through class and laboratory work, of the structure and behavior of matter. Topics stressed in the first semester are units and techniques of measurement; gases in the atmosphere and the gas laws; water and solutions; the atomic and kinetic theories; valence, formulas and the determination of the atomic and molecular weights; acids, bases and neutralization; the states of matter; and the periodic classification of the elements.

4 semester hours

Inorganic Chemistry II

This is a continuation of Inorganic Chemistry I and stresses fundamental concepts of non-metals, metals and atomic structure. Recent developments in the atomic field are emphasized. Some time is spent on ionization and electrolysis, in balancing oxidation and reduction equations and in solving problems. Some time is also spent in the study of the structure, reactions and naming of organic compounds with emphasis on practical applications.

4 semester hours

Qualitative Analysis I

Analyses are made involving the cations and the anions. The student has practice with unknown solutions, salts and alloys. An understanding of equilibrium constants, solubility products constants, solubility product constants and ionization constants is required in this course.

3 semester hours

Quantitative Analysis II

This is a 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.

4 semester hours

Industrial Chemistry

This course presents the chemical processes used in industry. Visits to industrial plants take the place of laboratory work.

3 semester hours

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. Prerequisites: Inorganic Chemistry. 4 semester hours

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. 3 semester hours

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**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

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

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

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

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

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.

4 semester hours

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, audiometers, sextants, jolly balances, photometer, spectrometers, potentiometers, ballistic galvanometers, and oscilloscopes. Prerequisites: Physics I and II.

3 semester hours

Modern Physics

This is a study of twentieth century physics. The course includes the development in thermionics x-rays, and radio-activity. 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**Basic Biology**

This course deals with the principles of biology. Topics include 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

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

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

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

Teaching 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, 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

History of Civilization I

A study of the 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

History of Civilization II

A continuation 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

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

History of the United States and Pennsylvania II

A continuation of History of the United States and Pennsylvania I 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

Contemporary United States History

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

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: History of Civilization I & II.

3 semester hours

Contemporary European History

An advanced course dealing with Europe since 1919. It is concerned chiefly with economic, social and political movements such as fascism, socialism, communism, nationalism, and internationalism which were at work in Europe during this period. It also appraises the present day relation of Europe to a wider world and its place in that world. Prerequisite: History of Civilization II.

3 semester hours

History of the Twentieth Century World

A study of those movements which constitute the modern world: the evolution of nationalism; the challenge of socialism, communism, and fascism 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: History of Civilization I & II.

3 semester hours

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

History of the Middle East

A study of the contributions of the various civilizations that developed in 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: History of Civilization I & II.

3 semester hours

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; and its place in the world today. Prerequisites: History of Civilization I & II.

3 semester hours

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: History of Civilization I & II.

3 semester hours

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 to domestic problems, then as they are related to the various political units involved. Present day problems are stressed.

3 semester hours

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: History of the United States and Pennsylvania I & II. 3 semester hours

SOCIAL SCIENCE

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

Principles of Economics (First Semester)

A basic course providing a rounded understanding of economic principle. An essential course for advanced work in economic theory and a general understanding of the working of economic forces in our society. The first semester is devoted to the economic factors underlying the price and production of the individual firm and industry; and the second semester deals with the behavior of the monetary and real income.

3 semester hours

Principles of Economics (Second Semester)

This is a continuation of Principles of Economics (first semester) which is a prerequisite.

3 semester hours

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

International Relations

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: History of Civilization II.

3 semester hours

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 the functional and comparative manner. Prerequisite: American Government.

3 semester hours

State and Local 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. Prerequisite: American Government.

3 semester hours

Teaching 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 outline, preparation of teaching units, testing and visual aids are stressed.

3 semester hours

Contemporary Social Problems

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

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

Industrial Relations

A study of the reciprocal relationships of industry and labor; the place of governments relative to this subject; and the effect upon the American economy. Leading subjects covered include: labor organizations and labor problems; collective bargaining; scientific management and personnel policies; governmental policies and control; and the effect upon the general consumer. Prerequisite: Principles of Economics. 3 semester hours

United Nations Organization and Function

After tracing the historical background of the United Nations, the course deals with its purposes, principles and organization. Emphasis is placed on the effectiveness of the U. N. in recent world affairs and on its functions and activities. The relationship of the United States to the organization, functions and influences of the U. N. are studied. Prerequisite: American Government. 3 semester hours

PUBLIC SCHOOL NURSING

Special Health Problems

A study of physical, emotional and social problems affecting the health of the school child; of the methods that may be employed by home, school and community in helping to solve them, with emphasis on the nurse as co-ordinator in such endeavor; of the local, state and federal resources available for aiding in the solution of these problems. Field Trips. 3 semester hours

Public School Nursing

Qualifications, certification, education, duties, responsibilities, limitations, opportunities, contributions, legal aspects and problems of the nurse in the school; emphasis on her changing role; planned to assist the nurse to assume her proper position in a vigorous school health program. Field Trips. 3 semester hours

Nutrition and Community Health

Basic principles of nutrition reviewed; family meal planning with relation to economic factors, cultural food patterns and emotional aspects; application of principles to nutrition throughout the life span; a study of special health problems and their relation to nutrition; co-operative planning for school and community. Demonstrations.

3 semester hours

Public Health Nursing

The development, fundamental principles, organization, nature of services, problems of community participation, legislation, and trends in Public Health Nursing; emphasis on skill, knowledge and interests essential in teaching prevention of disease and promotion of health; resources on local, state and federal level available to the public health nurse in her work with the community. Field Trips.

3 semester hours

Family Casework

This course is designed to acquaint the student with (1) the various Social Work agencies and the services they provide for the family, individually and as a unit; and with (2) interviewing and counseling techniques for dealing with family-type problems. This course is valuable to the school nurse, the school counselor, or the teacher who may come in contact with problems related to the home and family.

3 semester hours

ALUMNI

In eighty-six years of its existence, Shippensburg has graduated approximately 6,500 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 in Education degree at this institution since 1927.

The Alumni Association meets regularly each year during the month of May. 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

President	JAMES GIBBONEY—1933
First Vice-President	WILLARD E. KERR—1939
Second Vice-President	MONROE S. E. GOBRECHT—1920 1928
Secretary	MYRA ESH—1926
Treasurer	PAUL F. CAUFFMAN—1932
Assistant Treasurer	ERMA K. ROLAR—1918

ALUMNI EXECUTIVE COMMITTEE

Term Expires Alumni Day 1957

ROBERT BEARD '38	Chambersburg, Pa.
WILLIAM EARP '50	Carlisle, Pa.
BLANCHE STOOPS '21	Ardmore, Pa.

Term Expires Alumni Day 1958

SARA E. DRAKE '28	Shippensburg, Pa.
PAUL S. LEHMAN '21	Lewistown, Pa.
RALPH SWAN '25 and '31	New Bloomfield, Pa.

Term Expires Alumni Day 1959

GEORGE BRINER '01	Carlisle, Pa.
TYRRELL ROBINSON '32	Middleburg, Pa.
S. S. SHEARER '07	Camp Hill, Pa.

Term Expires Alumni Day 1960

MRS. HELEN M. GOTWALT '25	York, Pa.
M. FRANCIS COULSON '47	Biglerville, Pa.
GERALD E. HAUGH '53	Secane, Pa.

COLLEGE ADVISORY COUNCIL FROM THE ALUMNI 1957-58

(ADAMS COUNTY)

School System	Address	Alumnus
Bermudian Springs Joint	York Springs	Mrs. Wimbert Neely
Fairfield Joint	Fairfield	George Inskip
Gettysburg Area	Gettysburg	Charles Gentzler
		C. W. Lefever
Littlestown Joint	Littlestown	Elmer Gall
Lower Adams Joint	New Oxford	Charles C. Taylor
Upper Adams Joint	Biglerville	Samuel Ehlman

(BEDFORD COUNTY)

Bedford Joint	Bedford	Paul E. Mowry
Everett-Southern Joint	Everett	Claude F. Larimer
Tussey Mountain Joint	Saxton	Rose L. McCahan
		Hazel E. Angle

(CUMBERLAND COUNTY)

Big Spring Joint	Newville	C. E. Hassler
		Paul L. Stone
Camp Hill Boro.	Camp Hill	Reed Ernst
Carlisle Area	Carlisle	Mark N. Burkhardt
		Charles E. Lehman
Cumberland Valley Joint	R.D. 1,	James R. Heckler
	Mechanicsburg	Charles R. Slaybaugh
East Pennsboro Twp.	Enola	Frank Sauter
Mechanicsburg Area	Mechanicsburg	J. Maclay Kelly
		Charles E. Shields
New Cumberland Boro.	New Cumberland	Gerald S. Brinton
Shippensburg Area	Shippensburg	S. L. Daihl
		Harper J. Wentz
South Middleton Twp.	Boiling Springs	Sara G. Briner
		Robert R. Whitcomb
West Shore Joint	Lemoyne	Joseph D. Over
		Paul E. Stum

(DAUPHIN COUNTY)

Central Dauphin Joint	Harrisburg	John W. Holbert
		Adam Hoover
Derry Twp.	Hershey	Roy E. Hovis
Halifax Area Joint	Halifax	Marlin E. Rettinger
John Harris	Harrisburg	Francis J. Korkuch
Middletown Boro.	Middletown	J. R. Guistwhite
Millersburg-Upper Paxton Jt.	Millersburg	Richard Fralick
Susquehanna Twp.	Progress	Winifred E. Kitchen
		Augustus DeWalt
Steelton-Highspire Joint	Steelton	Charles D. Hoerner
		Frank Yeingst

(Dauphin County Continued)

Upper Dauphin Joint William Penn	Elizabethville Harrisburg	Cora Ebygeist Charles H. Ebner
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(FRANKLIN COUNTY)

Chambersburg Area Joint	Chambersburg	Robert Beard Kenneth Gabler Ida Heller
Fannett-Metal Union Greencastle-Antrim Joint James Buchanan Joint	Willow Hill Greencastle Mercersburg	Mrs. Glenn Minnich William P. Conrad Jacob Brake Estella Whitmore
Quincy Merged Saint Thomas Twp. Scotland School for Veterans' Children	Quincy Saint Thomas	Roger C. Mowrey J. Richard McCurdy
Waynesboro Area Joint	Scotland Waynesboro	Robert McClay George H. Bitner Darvin Garrett

(FULTON COUNTY)

Forbes Road Joint McConnellsburg Joint Southern Fulton Joint	Hustontown McConnellsburg Warfordsburg	Harry Blain Chester Creager Gordon Charlton
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(HUNTINGDON COUNTY)

Captain Jack Joint Juniata Valley South Huntingdon Joint	Mount Union Alexandria Orbisonia	Edward Gerlock Henry J. Stouft Mrs. Louise Cornelius Donald F. Lynch
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(JUNIATA COUNTY)

East Juniata Juniata Joint Tuscarora Valley	Cocolamus Mifflintown Port Royal	Donald R. Whitsel Myra P. Rodgers Mrs. Ruth G. Beaver Darwin Garrett
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(MIFFLIN COUNTY)

Chief Logan Joint Kishacoquillas	Burnham Garden View, Reedsville	J. Gerald Woomer
Lewistown Boro. Rothrock Public	Lewistown McVeytown	J. Lindsay Snider Samuel Shearer, Sr. Richard Kitzmiller

(PERRY COUNTY)

Blain Union	Blain	Willis A. Smith Glenn L. Gingrich
Green Park Union Greenwood Joint	Elliottsburg Millerstown	Paul F. Hurley John R. Weigle Dana O. Gantt
Newport Joint Perry Joint Susquenita Joint	Newport New Bloomfield Duncannon	Walter L. Cressler Sara E. Bookwalter Harry E. Verdier

(OTHER COUNTIES)

Altoona	Altoona (Blair)	Byron Ashburn Frank Mastrocola Howard Walker
Bellwood-Antes Joint Hollidaysburg	Bellwood (Blair) Hollidaysburg (Blair)	Griff Jones, Jr. Dean W. Brumbaugh Dr. Willard Kerr Roger Jones
Morrison Cove Joint Tyrone Area Joint Aliquippa Johnstown	Martinsburg (Blair) Tyrone (Blair) Aliquippa (Beaver) Johnstown (Cambria)	Jerry F. Trostle
Landsdowne	Landsdowne (Delaware)	Roy Kraber
Abington Township	Abington (Montgomery)	Dr. Frank Coffey
Middleburg Joint Selingsgrove Area Joint	Middleburg (Snyder) Selingsgrove (Snyder)	Tyrrell Robinson
Central Union Eastern Joint Northeastern Northern Joint West York Area York City	York (York) Wrightsville (York) Manchester (York) Dillsburg (York) York (York) York (York)	W. Michael Weader Mrs. Evelyn Criswell W. Benjamin Walker Mrs. Evelyn Criswell Robert F. Habig Thomas Schade Miriam Fink, J.H.S. Anna Mary Melhorn Elem. Mrs. Sylvia Wilson S.H.S.
Hagerstown	Hagerstown, Md. (Washington)	Robert Lesher Edward R. Kercheval

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SEPTEMBER, 1957

- Acker, Joan E.
Adams, Lyle W.
Adams, Michael J.
Agle, Lawrence
Akens, Anne E.
Albright, Kenneth
Alesi, Joan L.
Alexander, Joanna E.
Alexander, Martha E.
Allard, Robert L.
Alleman, Ada E.
Allinson, Elsa M.
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Ammerman, Robert T.
Angeli, Patricia J.
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Armagost, Mary P.
Arndt, Elaine G.
Ashburn, Doyle D.
Aumiller, Robert L.
Ayers, J. Paul
Bair, George W.
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Bannon, Lawrence R.
Banse, Meryl A.
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Benedict, Doris J.
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Benner, Barbara J.
Benner, Larry L.
Bernitsky, Bernard
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Bierman, Frederick H.
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Brabson, Elizabeth A.
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- Brake, Edward W.
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- Devor, Carolyn L.
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- Gearhart, Bobby L.
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- Hicks, Terry
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Hinkle, Carole L.
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Iffland, Patricia G.
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- Kyner, Jayne A.
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- Smarsh, John D.
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The Boston Symphonette

The Men of Song, Male Quartet

Sidney Harth, Violinist

Louise Bannerman, Harpist

The Vienna Choir Boys

Morley and Gearhart, Duo Pianists

Rawn Spearman, Tenor

The Tamburitzans

Don Cossack Chorus

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Stratford, Ontario, Canadian Players

Dwight Cooke, of C.B.S., News Analyst

First Piano Quartet

Herbert Philbrick, Lecturer

Lafayette College Glee Club

Hanson Baldwin, Lecturer

Archer and Gile, Ballad Singers

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