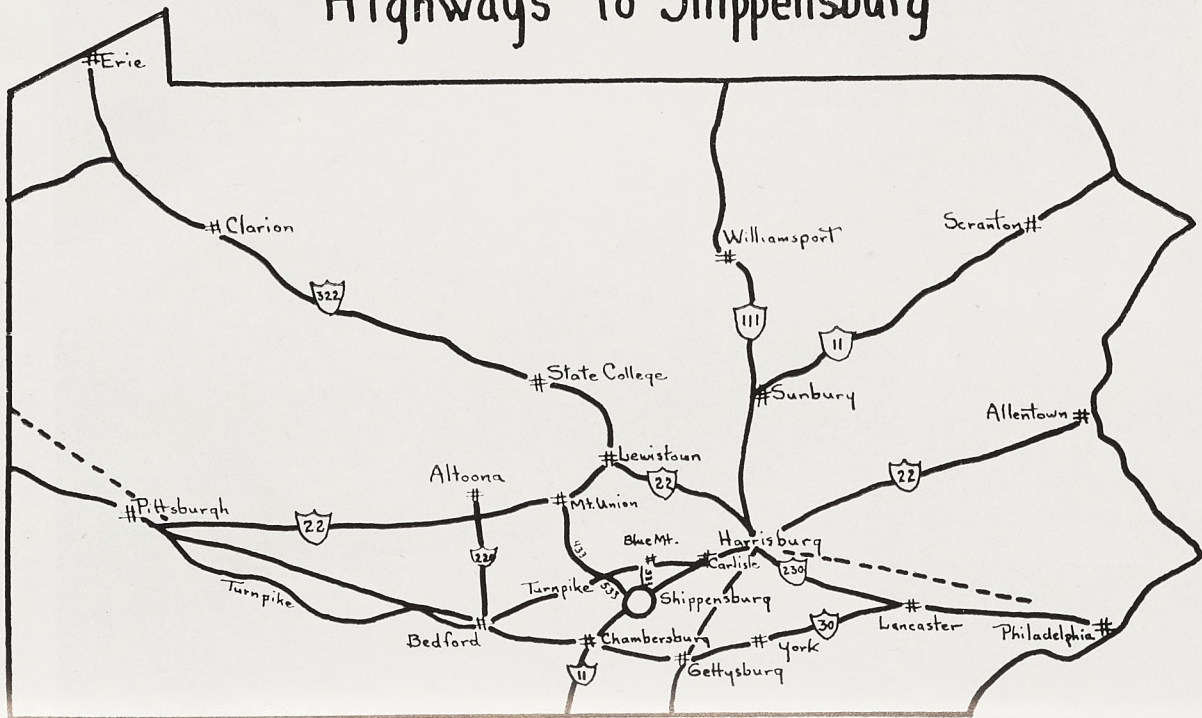


Highways to Shippensburg



The Teachers College Herald

VOLUME 56

MARCH, 1952

NUMBER 3

Catalogue Number

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

THE STATE TEACHERS COLLEGE

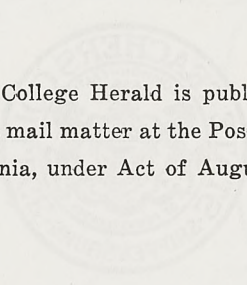
SHIPPENSBURG, PENNSYLVANIA

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THE STATE TEACHERS COLLEGE
SHIPPENSBURG, PENNSYLVANIA

COLLEGE CALENDAR

1952 - 1953

The Summer Sessions**1. Pre-Session of Three Weeks**

Session Begins ----- June 2
 Session Ends ----- June 20

2. Regular Session of Six Weeks

Session Begins ----- June 23
 Session Ends ----- August 1

3. Post-Session of Three Weeks

Session Begins ----- August 4
 Session Ends ----- August 22

First Semester

Registration of Freshmen ----- September 9
 Registration of Upperclassmen ----- September 10
 Classes Begin at 8:00 a.m. ----- September 11
 Thanksgiving Recess Begins at the close of classes Nov. 25
 Thanksgiving Recess Ends at 8:00 a.m. ----- December 1
 Christmas Recess Begins at the close of classes December 16
 Christmas Recess Ends at 8:00 a.m. ----- January 5
 First Semester Ends at Noon ----- January 23

Second Semester

Registration ----- January 26 and 27
 Classes Begin at 8:00 a.m. ----- January 28
 Easter Recess Begins at Close of Classes ----- March 31
 Easter Recess Ends at 8:00 a.m. ----- April 7
 Alumni Day ----- May 23
 Baccalaureate Services ----- May 24
 Commencement ----- May 25

BOARDS OF CONTROL

COMMONWEALTH OF PENNSYLVANIA

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1952 - 1953

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M.Ed., Pennsylvania State College

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A.M., Southern Methodist

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M.S., in Ed., Temple University

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A.M., Teachers College, Columbia University

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Ed.D., Pennsylvania State College

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A.M., Ph.D., New York University

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A.M., Teachers College, Columbia University

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B.S., Virginia Polytechnic Institute
A.M., Cornell University
Ph.D., Cornell University

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A.M., Teachers College, Columbia University
Ph.D., Lebanon Valley College

DOROTHY TOWNSEND

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M.A., Teachers College, Columbia University

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B.S. A.M., Ohio University

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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
MYRA C. ESH, M.Ed.	Sixth Grade

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VINTON RAMBO, A.M.	Dean of Men
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NANCY HULL	Secretary, Director of Student Teaching

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ALICE M. NOLL	Bookkeeper
GERTIE FOGELSANGER	Account Clerk
MARIE Y. LICHTY	Account Clerk
EDNA MOUER	Clerk to the Accountant
ANNA COMMERER	Clerk in Retail Store
MARGARET DERICK	Clerk in Retail Store

- R. BRUCE CLIPPINGER *Receiving Clerk*
- HARRY M. ESHELMAN *Supt. of Grounds and Buildings*
Grounds and Building Staff—John Fitzgerald, Charles Hill,
 Clifford Hoover, Raymond Hutchinson, Walter Klenzing, Jerry
 Thomas, Elmer B. VanScyoc, Harvey Allen, Hiram D. High-
 lands, Clarence L. Chamberlin, Arthur Commerer, R. J.
 Hutchinson, George Clough, Amos Devor, James Foltz, Blake
 Schaeffer, Earl Pugh, P. J. Oyer, Edwin Eberly, Calvin R.
 Kirkpatrick, W. E. Love, Calvin T. Mixell.
- G. EMORY KANN *Watchman*
- WILLIAM S. WEIBLEY *Watchman*
- SARA MC CULLOCH *Matron, "Old Main"*
- MILDRED ALLEN *Matron, Men's Dormitory*
- Dorothy Plasterer *Matron, Horton Hall*
Assistant—CATHERINE WALLS
- LOTTIE MC CELLAN *Dietitian*
Dining Room and Kitchen Staff—Florence Cramer, Emma
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 William Crusey, Laura E. Keefer, Mae Rebeck, Nora E.
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 Bernice Mooney.
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Assistants—Lena Clough, Beulah Kitzmiller, Mary Crider,
 Mary O'Donell, Paul Wadel, Dolly Cover, Bertha Killian,
 Nellie Kelley, Louise Piper, Sarah Kline.
- ANNA WALTERS *Cafeteria Manager*

STATE TEACHERS COLLEGE AT SHIPPENSBURG

GENERAL INFORMATION

Shippensburg is an Accredited College

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

Location

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

History

Originally known as the Cumberland Valley State Normal School, the institution was founded in 1871. The first class was graduated in 1874. For more than fifty years the school continued to serve as a State Normal School, graduating students prepared and legally qualified to teach in the

public schools of the Commonwealth. After 1922, high school graduation was required for admission to the institution. In 1926 the State Council of Education authorized four-year curricula based upon high school graduation. In August, 1927, by authority of the General Assembly, this institution became a college with the right to grant degrees. Its name was changed to the State Teachers College at Shippensburg.

The principals and presidents of the college have been as follows: George P. Beard, 1872-75; I. N. Hays, 1875-78; B. S. Potter, 1879-82; S. B. Heiges, 1882-86; J. F. McCreary, 1886-89; G. M. D. Eckles, 1889-1907; S. A. Martin, 1907-13; Ezra Lehman, 1913-31; Albert L. Rowland, 1932-45; Levi Gilbert, 1945-48; Harry L. Kriner, 1948-

Campus

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

Buildings

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

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

ROWLAND HALL, located on the east campus, is used as an elementary training school for grade one to six, inclusive. The south wing provides rooms for a kindergarten and a nursery school. A beautiful auditorium is attached to the building for the use of the Training School. The office of the Director of Student Teaching, a medical and dental office, a library, an 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 openings to Heiges athletic field on the ground floor. It has a large gymnasium floor, the necessary separate locker rooms for men and women, a swimming pool, a wrestling and boxing room, and the recreation room which also is used as a classroom for the physical education classes.

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

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

THE MEMORIAL AUDITORIUM was completed in October 1951. This is a very modern building with a large stage; amphitheater hoom for band, orchestra and Glee Club practice; music rooms; dramatic and speech rooms; and dramatic workshop. This building is located at the east end of the campus.

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

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

The HEATING PLANT was built in 1898 and has had minor additions and changes made in several instances since that date. It is now being replaced by a new modern plant.

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

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

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

Library

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

Laboratory Schools

The college uses its own campus Laboratory School as well as the public schools at Shippensburg, Chambersburg, Carlisle, Waynesboro, Steelton and Harrisburg for student teaching. These public school organizations give the college students an opportunity to secure practical experience in an elementary school, a junior high school, or a senior high school. While students are doing their practicum for one full semester, they have available the various facilities of the college and the course in Curriculum Materials is integrated with student teaching. A systematic plan has been developed for the Freshman, Sophomores, and Juniors to visit the public schools. After each visit a brief report is prepared by the student. These prepare the student for student teaching, and furnish the training teachers valuable guidance material. This practice is extremely important in implementing the work given in college classes.

Social Program

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

Health Program

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

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

Conduct

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

Religious Life

Shippensburg provides opportunities for wholesome and religious church life. At the beginning of each semester, the names of all students are forwarded to the clergymen of the churches designated by the students, and they are urged

to continue their church duties and obligations. Many of the churches have activities to which the students are especially invited.

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

The Purpose of the College

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

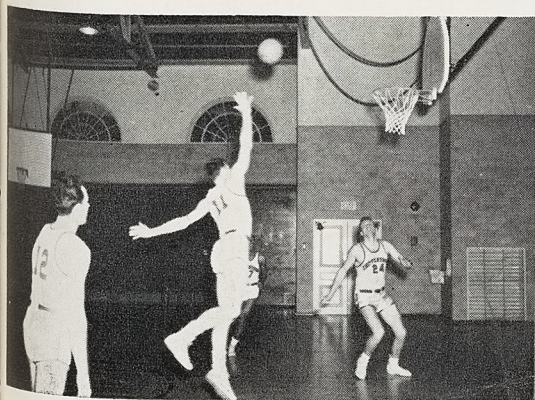
To that end, the administration and the faculty of this college are working together to demonstrate these tenets through the following objectives:

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.



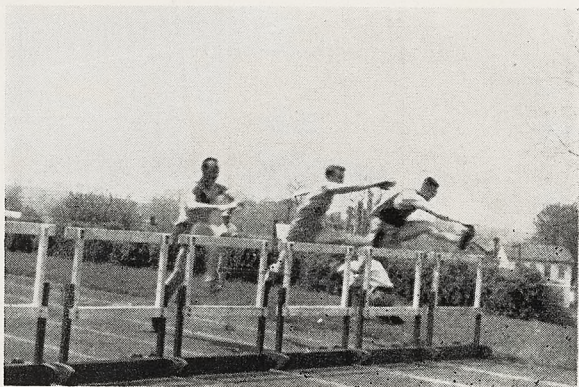
FOOTBALL ACTION

A SURE HIT



TWO MORE POINTS

SHIPPENSBURG OVER



3. To evaluate the curriculums continuously in view of adaption to specific current needs.
4. To foster sound learning, broad cultural background, and ethical professional knowledge, attitudes, and techniques.
5. To provide a program of curricular experiences through which the student will develop academic, social and personal growth.
6. To maintain an effective cooperative organization for the fluid articulation between college classes and practices within the training schools, so that students may clearly recognize the application of professional knowledge.
7. To give the students practical experience in the democratic processes of group planning in executing activities of common interest.
8. To encourage students to recognize the value of worthy family relationships and of the services to be rendered by teachers in a community.
9. To provide opportunities for the student to acquire both the knowledge and the appreciation of the **WORK OF THE TEACHER.**

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

Summer Session

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

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

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

College Living Accomodations

Students at Shippensburg State Teachers College live in dormitories, in their own homes, or in approved residences. The dormitory rooms have single beds furnished with mattresses, pillows, sheets, pillow slips, and one blanket. Students should furnish a study lamp, extra blankets, towels, wash cloths, and soap. Many students provide window curtains, dresser scarf, bed spread, and small throw rugs. Radios are permitted if operated with due consideration for others.

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 Laundry. Special facilities are provided in shower rooms and 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 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 dress shoes and one pair sturdy school shoes; bedroom slippers; a pair of swimming trunks and a pair of gym shoes.

Social Rooms

Lounges are provided on each floor of Horton Hall and on the third floor of the men's dormitory for Boarding students. A lounge is provided for Day women in the west end of the Main Building, first floor and the east end for Day men. Stewart Hall Recreation Hall 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 students prior to arrival at college. Mail is delivered and collected three times daily.

Telephone Service

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

Emergency calls may be placed through the Registrar between 8 A.M. and 4 P.M. and through the Dean of Men or Dean of Women after those hours.

Fees, Deposits, Repayments

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

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

A. FEES

I. Student Activity Fee:

Per Half Semester	\$7.00
Summer Session	\$2.00 in full

Activity Fees are payable in advance and are not refundable. Make check for this fee payable to The State Teachers College. Checks to pay other accounts mentioned hereafter shall be made payable to the Commonwealth of Pennsylvania.

II. Contingent Fee:

	Half Sem.	Year
Elementary Curriculum	\$22.50	\$90.00
Secondary Curriculum	22.50	90.00
*Business Education Curriculum	22.50	90.00
Out of State Students	\$7.50 per semester hour	

*A special fee of \$6.00 per half semester, \$2.00 for a three weeks, or \$4.00 for a six weeks summer session is charged against those students whose work is credited in the curriculum of business education. Summer Session--\$7.50 per semester hour.

Minimum fee \$22.50.

Students taking seven or fewer semester hours shall pay at the rate of \$7.50 per semester hour. Students taking more than seven semester hours shall pay the regular Contingent fees; Contingent fees for special curriculum shall be probated on the basis of an eighteen semester hour load.

III. Housing Fee:

1. The housing rate for students is \$90.00 per one-half semester, \$60.00 for the regular summer sessions. This includes room, meals and limited laundry. (This rate is subject to change by action of the Board of Trustees.) The charge for room and board includes furniture, bedding, light and heat. Each room accomodates two students. All rooms are provided with single beds for each student.
 - (a) No reduction in the rate is made for laundry done at home or for students who go home for a few days at a time.
 - (b) At the discretion of the President of the College, a student may occupy a double room alone, by paying an additional \$36.00 or \$12.00 for the regular summer session.
 - (c) A boarding student may not change to a day student basis without permission of the President of the College and then only at the end of a half semester or the close of a summer session.
 - (d) A boarding student in attendance as a trainee of the U. S. Veterans Administration or an Army or Navy program has the privilege of paying housing fees at the rate of \$45.00 per month, October through May, both months inclusive. Such monthly payments to be made not later than the tenth of the month in which they are due. Summer Session housing fees of a trainee must be maintained on an advanced payment basis. This rate is subject to change by action of the Board of Trustees.
2. Housing rates for employes other than those included in the State Classification Schedule (faculty, clerks, etc.) are \$11.00 per week.
3. The rates for transients are:
Room, \$.50 per night; breakfast, \$.45, lunch, \$.55, dinner, \$.75.
Students having guests overnight who must be provided with dormitory accomodations must introduce them to the Dean of Women in the case of women, Dean of Men in the case of men, and arrange for the payment of the regular room charge of \$.50 per night.

IV. Damage Fee:

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

V. Infirmary Fee:

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

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

VI. Tuition Fee:

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

VII. Degree Fee:

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

VIII. Record Transcript Fee:

One dollar (\$1.00) is charged for the second and each subsequent transcript of record. This fee is waived in the case of persons in the armed services of the United States.

IX. Late Registration Fee:

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

X. Delinquent Accounts

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

B. Deposits**1. Advance Registration Deposit:**

A deposit of \$10.00 is made by students when they request registration. This is a guarantee of the intention of the student to enter college for the term or semester designated.

C. No Other Fees or Deposits Permitted

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

D. Repayments

I. Repayments Are Not Made:

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

II. Repayment

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

III. Advance Registration Deposit

The advance registration deposit is returned to the students if they notify the college not less than three weeks before the opening of the semester or term, of their intention not to attend, or if they are rejected by the college.

SUMMARY OF EXPENSE

For boarding students living on the campus the cost at Shippensburg (exclusive of the summer session) is as follows:

	Half Sem.	College Year
*Regular Contingent Fee -----	\$22.50	\$90.00
Activity Fee -----	7.00	28.00
Housing Fee		
(Board, Room, Laundry) -----	90.00	360.00
Total -----	\$119.50	\$478.00
*Business Education students pay additional special contingent fee ----	\$6.00	\$24.00

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

Day Students

Day students—those living at home—do not pay the housing fee. The annual cost for such students is \$118.00. No student (who does not live at home) is allowed to register as a day student without permission of the President of the college.

TIMES OF PAYMENT FOR ACADEMIC YEAR 1952-1953

Sept. 8—Payment for first half of first semester.

Nov. 10—Payment for second half of first semester.

Jan. 20—Payment for first half of second semester.

Mar. 22—Payment for second half of second semester.

Summer Session fees payable at the opening of each session.

Payment by check

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

Scholastic Regulations

REQUIREMENTS FOR ADMISSION

Admission to a State Teachers College is made on the basis of the following controlling principles.

1. General scholarship.
2. Character and personality.
3. Health and physical vigor.
4. English fundamentals and psychological tests.
5. A personal interview.

Candidates for admission must satisfy these five general requirements in detail as outlined below:

1. General scholarship as shown by the completion of the work of the 10th, 11th, and 12th grades of an approved secondary school or institution of equivalent grade, or equivalent education as determined by the Credentials Division of the Department of Public Instruction, and rank in the upper half of the class at graduation. Candidates for admission who lack this rank at graduation are requested to present further evidence of fitness.
 - a. Applicants ranking in the upper half of their graduating class in a secondary school are admitted on certificate without further evidence of general scholarship.
 - b. Applicants who do not rank in the upper half of the graduating class may be admitted on probation, provided:
 - (1) They are recommended by their secondary school principal as able to do creditable college work, and
 - (2) Appraisal of the detailed secondary school record indicates to admission authorities of the college that candidates can do satisfactory college work. Whenever available, candidates are urged to present to the admission authorities cumulative records of secondary school work such as were used by the Carnegie Foundation in the Pennsylvania Study, and
 - (3) A rating satisfactory to the institution is made on a scholastic aptitude test administered at the college.

DATES FOR PLACEMENT TESTS:

Students whose grade places them in the lower half of the high school graduating class shall appear for placement tests at the College on one of the following dates: June 14, July 19, August 23. Tests begin at 9:00 a.m. Eastern Daylight Saving Time in the Main Auditorium.

1. Applicants satisfactorily meeting the requirements (1), (2), and (3) above will be admitted for one semester on probation. At the end of the probationary period such students will be required to withdraw from the college unless they meet the required standard of scholarship in at least nine (9) semester hours of work.
2. A record of integrity and appropriate personality must be shown by an estimate of secondary school officials, of the candidate's trustworthiness, initiative, industry, social adaptability, personal appearance, and sympathy.
 - a. The estimate of the secondary school officials will be recorded by a check margin in the appropriate column of a three-point rating scale as follows:

	Low	Middle	High
Trustworthiness	-----	-----	-----
Initiative	-----	-----	-----
Industry	-----	-----	-----
Social Adaptability	-----	-----	-----
Personal Appearance	-----	-----	-----
Sympathy	-----	-----	-----
Emotional Stability	-----	-----	-----

- b. This will be included as part of the secondary school record blank.
 3. Physical vigor, emotional stability, absence of physical defects that would interfere with the successful performance of the duties of a teacher, and absence of predisposition toward ill health as determined by a medical examination are required.
 - a. All applicants for admission shall present a certificate of examination, signed by a physician legally qualified to practice medicine in the Commonwealth of Pennsylvania. Forms for the examination are furnished by the college. This medical examination is checked by an examining physician at the college and students are required to undergo a complete re-examination.
 - b. Applicants may be rejected for the following reasons:
 - (1) Incurable defects or diseases of the heart, lungs, kidneys, digestive system, nervous system, including hysteria, epilepsy, nervous instability, skin, organs of the special sense, and thyroid.

- (2) Defective vision of marked degree.
- (3) Permanently impaired hearing.
- (4) Marked speech defects.
- (5) Unsightly deformities.

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

4. Normal intelligence and satisfactory command of English as shown by ratings in standard tests are required. These tests to be used are prescribed each year by the Board of Presidents and are uniform for all State Teachers Colleges.
5. A personal interview, with particular attention to personality, speech habits, social presence, expressed interests of the applicant, and a promise of professional development is necessary.
 - a. The personal interview serves two purposes:
 - (1) It gives the examining committee of the college an opportunity to select, from the applicants for admission, those persons who give promise of becoming desirable teachers.
 - (2) It provides an inventory of the personal characteristics of applicants who are admitted and makes this inventory available to instructors and officers concerned with personnel work in the college.
 - b. The interview is conducted at the college or in other places and times designated by the President of the college. See dates for placement tests.

All applications should be made to the President, State Teachers College, Shippensburg, Pennsylvania.

ADVANCED STANDINGS

1. Advanced credit will be given for equivalent courses completed in approved institutions of collegiate grade where the course grade received is above the minimum passing grade prescribed by the transferring institution. No student may obtain a certificate or degree without a minimum residence of one year in this college. A student transferring from another college will be required to present a statement of honorable dismissal from that college and to meet the same entrance requirements as any other applicant.
2. No candidate for a college certificate receives more than thirty-two semester hours credit toward graduation for work done in extension classes.

3. No credit is given for correspondence work taken after September 1, 1927.
4. Persons who have completed the work of the two-year Early Childhood, Intermediate, or Rural curricula are admitted to junior standing for a degree, provided they are graduates of an approved four-year high school. The exact number of hours' credit granted depends upon the curriculum which the student has completed and the one in which he wishes to secure his degree. Those who become candidates for the degree in the elementary field secure two full years' credit, but those who transfer to the secondary field lose some credit, usually from ten to twelve hours.
5. Graduates of State Normal Schools prior to September, 1920, who have had a four-year high school preparation, are awarded not more than sixty-four semester hours of credit toward the baccalaureate degree.
6. Graduates of State Normal Schools, who lack four years of high school preparation, may apply to the Pre-Professional Credentials Division, Department of Public Instruction, Harrisburg, Pennsylvania, for a high school equivalent certificate, which when issued by this Division, will be accepted by the State Teachers College as equivalent to graduation from a four-year high school.
7. No credit for public or private teaching experience, previously credited as high school equivalent or as equivalent professional credit toward graduation, is granted or counted toward meeting the requirements for entrance to or graduation from the four-year curricula.

SCHOLASTIC PROGRESS

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

QUALITY POINT SYSTEM

1. Just as there is a quality standard for passing each course so there is a quality standard for completing a curriculum. This is made possible by the establishment of a quality point system which means that students cannot be graduated by merely having passing grades in each course.

2. A Quality Point System is in operation and demands that before a student can be graduated, he must have a number of quality points equal to the number of semester hours required in the curriculum, exclusive of the student teaching requirements. That is, a student must have 128 semester hours of credit to be graduated, and, under the quality point system he must have 116 quality points.
3. The Quality Point schedule is as follows:
An "A" grade gives 3 quality points for each semester hour of credit so marked; a "B" grade, 2 quality points; a "C" grade, 1 quality point; a "D" grade, no quality points; a failure grade of "F" gives a minus one quality point for each semester hour. The part dealing with the failure grade became effective September 1, 1949.
4. Students shall not be admitted to student teaching when they have a deficiency of more than six quality points.
5. Students whose quality point—semester hour ratio is below 6.5 at the end of the sophomore year shall not be permitted to register for additional new courses required in their curriculum until their quality point ratio has been raised to a .75 or above. (Effective for all students who entered subsequent to September 1, 1948).
6. Students whose competence is demonstrated by placement tests and educational records, who wish to select advanced courses may, with the approval of the institution, substitute such approved advanced courses in a particular field for those listed in the curriculum. This regulation applies to all curricula.

FACULTY ADVISERS

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

STUDENT TEACHING

1. Student teaching is the most essential course provided in the Teachers College. An assignment for the full time of one semester is essential for each student. Learning proper professional attitudes, legal require-

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

REQUIREMENTS FOR GRADUATION

1. All students are required to take part, without credit, in one physical education activity each semester, in which no physical education work or student teaching is required, and to be active in one other extra-class activity one semester each year.
2. A minimum of 128 semester hours, including all required courses, is required for graduation.
3. A minimum of 116 quality points, in excess of those required in student teaching, are required.
4. The teaching ability of a student shall be satisfactory to the Director of Student Teaching regardless of other credits.
5. Attendance at the Baccalaureate and Commencement exercises is necessary unless very unusual circumstances warrant graduation in absentia. This permission may be granted by the President of the College.
6. All bills and accounts shall be paid.
7. The last course work toward graduation shall be taken on the campus at Shippensburg.

COMMENCEMENT

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

CERTIFICATION OF TEACHERS

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

A student who receives a college degree after completing a four-year curriculum will be granted a Provisional College Certificate, which is issued by the Department of Public Instruction, provided an application has been filled out by the graduate for such a certificate. This provisional college certificate which indicates the subjects the holder is permitted to teach is valid for three years of teaching and is not to be confused with the diploma issued at graduation. It is important to remember that this certificate is not valid for teaching in any other state outside of Pennsylvania.

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

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

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

PLACEMENT

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

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

AWARDS AND SCHOLARSHIPS

State Scholarships

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

Scholarship Prizes

The class of 1908 offers a yearly prize of ten dollars to the student having the highest average at graduation. This prize was awarded on Commencement Day, 1951 to John Vinski, Etna, Pennsylvania.

Public Speaking Prize

The class of 1916 offers a yearly prize of five dollars for excellence in public speaking. The prize for 1951 was awarded to Judith Lee Sherkel, Camp Hill, Pennsylvania.

George L. Brown Scholarships

By the will of the late Dr. George L. Brown, an alumnus of this institution, the sum of \$15,000 was placed in trust, the interest of which is available for scholarships to the amount of \$100 each, per year, to assist deserving young men and women to acquire an education at this college, preference being given to residents of Middle Paxton Township and Susquehanna Township, Dauphin County. Persons interested in and qualified for these scholarships should apply to the President of the College.

Harriet Wylie Stewart Scholarships

By the will of the late Harriet Wylie Stewart, a distinguished member of the faculty for many years, the sum

of \$10,000 was placed in trust, the interest of which is available for scholarships to the amount of \$100 per year, preference being given to residents of the Middle Spring area of Southampton Township, Franklin County, and Southampton Township, Cumberland County. Persons interested in these scholarships should apply to the President of the College.

Junior Civic Club Scholarship

The Junior Civic Club of Shippensburg has established a scholarship fund which provides sufficient money to pay the college fees for one student. The Club selects the student and application should be made directly to the President of the Club. Each new award is made when the scholarship student in college graduates, voluntarily withdraws, or does not maintain satisfactory grades.

College Club Scholarship

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

Work Opportunities

At the College there are opportunities for part-time employment. These part-time jobs are limited mainly to upper-classmen who are definitely in need of financial aid, who have demonstrated their ability to do satisfactory academic work, and have proven themselves to be worthy college citizens. These positions are confined to work in the kitchen, dining room, 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 amount of work opportunities in private homes where students can receive payment by the hour or in terms of board or room. Students may make these contacts through friends, alumni, business manager, or the

Dean of Women prior to the beginning of each semester. However, students and their parents, or guardians, assume responsibility for such arrangements in private homes.

The Hannah A. Kieffer Rural Scholarship Loan

Miss Hannah A. Kieffer, a former instructor in the College, bequeathed a sum of money to the College as a loan fund for scholarships for the sole use of needy students majoring in Rural Education. Students who are interested, and who qualify for this loan should apply through the College President.

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 female student who is a graduate of the Shippensburg High School. The club selects the student, and applications should be made directly to the President of the Club who will furnish all details. Payments will cease upon the student's withdrawal or failure to maintain average or better than average record in scholarship, character and citizenship.

THE ALUMNI LOAN FUND

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

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

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

- Prof. John F. McCreary*—Gift of Metropolitan Alumni Association.
- Dr. George M. D. Eckels*—Gifts of the Class of 1898 and Alumni Groups.
- Prof. J. W. Hughes*—Gift of the Class of 1893.
- Dr. Joseph F. Barton*—Gifts of L. M. Shepp, 1896, Millersburg, Pa., and Alumni Groups.
- Dr. James Eldon*—Gift of the Class of 1921.
- Prof. and Mrs. C. I. Penny*—Gift of the Class of 1886.
- H. Milton 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.*

The Curriculums

The Curriculums offered at this college include elementary education providing emphasis in early childhood education, in intermediate education or in rural education; secondary education for teaching the various academic subjects of the junior and senior high school fields; education for teaching in the field of business education. 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

For the past two years under the direction of the State Curricular and Credentials Committee, faculty members representing each college and every field of instruction have studied and planned readjustments and changes in the curriculums.

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

Those professional courses and experiences recognized as basic or required 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.

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

SELECTION OF CURRICULUM

Curriculum and areas of specialization should be selected with care and with the advice of college authorities. Many students will undertake graduate study after complet-

ing the undergraduate preparation for teaching. Since requirements for admission to graduate schools vary widely, not only with different schools, but with the fields of study within a given school, undergraduates are advised to explore during the junior and senior years the opportunities and requirements for graduate study in their chosen fields to enable them to meet the special requirements wherever possible.

ELEMENTARY CURRICULUM

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

Professional Opportunities

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

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

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

ELEMENTARY CURRICULUM COURSES

(Sequence of courses subject to change for administrative reasons)

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

SEVENTH SEMESTER

EIGHTH SEMESTER

American Citizenship -----	6	6	Student Teaching and Direction of Student Activities	30	12
Option I Home and Family Living -----	(3-3)		Professional Practicum including School Law -----	2	2
and American Government -----	(3-3)		Total -----	32	14
Option II Introduction to Philosophy -----	(3-3)				
and American Government -----	(3-3)				
Educational Psychology and Evaluative Techniques -----	(3-3)				
Electives -----	6	6			
Total -----	15	15			

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

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

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

SPECIALIZATION AND ELECTIVES

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

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

(Required)

Courses listed in the elementary curriculum outline.

(Electives)

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

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

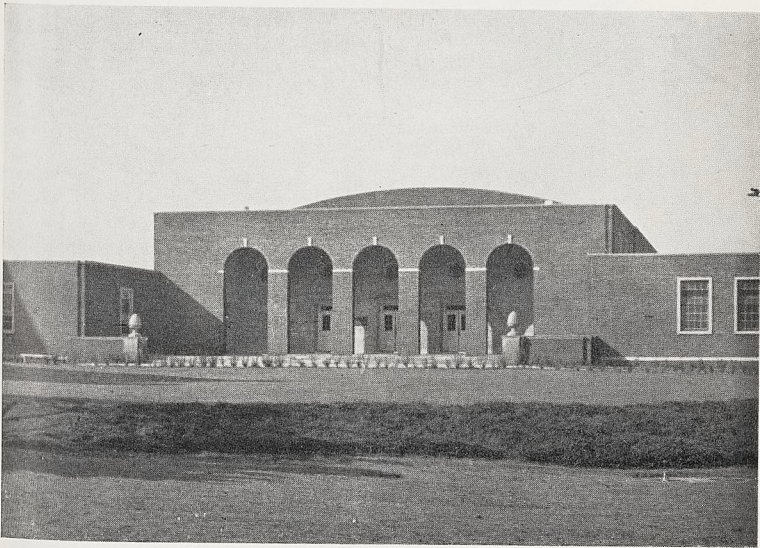
SECONDARY CURRICULUM

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

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



AUDITORIUM



GYMNASIUM

SECONDARY CURRICULUM COURSES

(Sequence of courses subject to change for administrative reasons)

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

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

**All or any part of these course (I-III S. H.) may be scheduled as part of the unit in World Culture.

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

1. First field

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

General field of Science	33
English	35
Social Studies	30
Social Science	30
History	30
Biological Science	30
Physical Science	30
Chemistry	30
Physics	30
Geography	24
Mathematics	24
Aeronautics	24
General Speech	24
French	24
German	24
Spanish	24
Latin	24

2. Second field

The second field requires not fewer semester hours than the minimum necessary for certification.

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

AREAS OF SPECIALIZATION

AERONAUTICS

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

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

BIOLOGICAL SCIENCE

Cl. Sem.
Hrs. Hrs.

(First field 30 S.H.;
Second field 18 S.H.)
Students demonstrating com-
petence to specialize in Biological
Science will not be required to
take Basic Biology.

Cl. Sem.
Hrs. Hrs.

(Required)

Botany I -----	6	4
Botany II -----	6	4
Zoology I -----	6	4
Zoology II -----	6	4
Teaching Science in the Secondary School -----	3	3

(Electives)

(at least on course to be selected
from each group below)

Group 1. Field Course		
Field Botany -----	5	3
Ornithology -----	5	3
Entomology -----	5	3
Ecology -----	5	3
Field Zoology -----	5	3
Group 2. Laboratory Courses		
Vertebrate Anatomy ----	5	3
Physiology -----	5	3
Microbiology -----	5	3
Parasitology -----	5	3
Genetics -----	5	3

CHEMISTRY

(First field 30 S.H.;
Second field 18 S.H.)
Students demonstrating com-
petence to specialize in Chemis-
try will not be required to take
Basic Physical Science.

(Required)

Inorganic Chemistry I ----	6	4
Inorganic Chemistry II ----	6	4
Qualitative Analysis ----	7	3
Quantitative Analysis ----	7	3
Physics I -----	6	4
Physics II -----	6	4
Teaching of Science in the Secondary School -----	3	3

(Electives)

Organic Chemistry I ----	6	4
Organic Chemistry II ----	5	3
Biological Chemistry ----	6	3
Physical Chemistry ----	5	3
Colloidal Chemistry ----	6	3
Industrial Chemistry ----	5	3
Chemistry of Foods and Nutrition -----	6	3
Water Analysis -----	4	2

PHYSICAL SCIENCE

(First field 30 S.H.;
Second field 18 S.H.)
Students demonstrating com-
petence to specialize in physical
science will not be required to
take Basic Physical Science.

(Required)

Inorganic Chemistry I ---	6	4
Inorganic Chemistry II --	6	4
Physics I -----	6	4
Physics II -----	6	4
Teaching Science in the Secondary school -----	3	3

(Electives)

To be selected from Chemis-
try, Earth Science, or Physics.

**GENERAL FIELD
OF SCIENCE**

(First field only 38 S. H.)
Students demonstrating com-
petency to specialize in General
Science will not be required to
take Basic Biology or Basic
Physical Science.

(Required)

Botany 1 -----	6	4
Botany II -----	6	4
Zoology I -----	6	4
Zoology II -----	6	4
Inorganic Chemistry I ----	6	4
Inorganic Chemistry II --	6	4
Earth Science -----	3	3
Physics I -----	6	4
Physics II -----	6	4
Teaching Science in the Secondary Schools -----	3	3

PHYSICS

(First field 30 S.H.;
Second field 18 S.H.)
Students demonstrating competence to specialize in Physics will not be required to take Basic Physical Science.

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

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

ENGLISH

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

	Cl. Sem.	Hrs.	Hrs.
(Required)			
Communications I	5	5	
or English I	(4-3)		
Speech I	(2-2)		
Communications II	5	5	
or English II	(4-3)		
Speech II	(2-2)		
*World Culture I	(5-5)		
or Literature I	2	2	
History of Civilization I	(3-3)		
*World Culture II	(5-5)		
or Literature II	2	2	
History of Civilization II	(3-3)		
Recent Trends in Teaching English	3	3	
(Restricted Electives)			
At least one course must be selected from each of Groups 1, 2, 3, and 4.			
Group 1. Survey Courses:			
American Literature	3	3	
English Literature	3	3	

Cl. Sem.
Hrs. Hrs.

American Poetry	3	3
American Prose	3	3
Children's Literature and Story Telling	3	3
Group 2. Period Courses:		
Pre-Shakespearean Literature	3	3
Shakespeare	3	3
Eighteenth Century Literature	3	3
The Romantic Movement	3	3
Victorian Literature	3	3
Group 3. Literary form Courses:		
Criticism	3	3
Modern Drama	3	3
The Novel to 1870	3	3
Contemporary Novel	3	3
Essay	3	3
Contemporary Poetry	3	3
Short Story	3	3
Literature of Biography	3	3
Group 4. Composition:		
Creative Writing	3	3
Journalism	3	3
Advanced Composition	3	3
English Philology and Grammar	3	3

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

FRENCH

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

	Cl. Sem.	Hrs.	Hrs.
(Required)			
French I	3	3	
French II	3	3	
French III	3	3	
French IV	3	3	
(Electives)			
French V—Survey of Literature	3	3	
French VI—Survey of Literature	3	3	
French VII—Advanced Language and 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	

GERMAN

(First field 24 S.H.;
Second field 18 S.H.)Cl. Sem.
Hrs. Hrs.

	Cl.	Sem.
	Hrs.	Hrs.
(Required)		
German I	3	3
German II	3	3
German III	3	3
German IV	3	3

(Electives)

German V and VI—Survey of German Literature	6	6
German VII — Intensive Grammar and Teaching Techniques	3	3
German VIII — Advanced Conversation and Composition	3	3
German IX—Special Projects	3	3
German X—The Drama in German Literature	3	3
German XI—Lyric Poetry in German Literature	3	3

LATIN

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

(Required)

Latin I—Ovid and Virgil	3	3
Latin II—Livy	3	3
Latin III—Cicero and Tacitus Selections	3	3
Latin IV—Horace	3	3
Latin V—Plautus and Terence	3	3
Latin VI—Roman Civilization	3	3

Note: To specialize in Latin, students must present not less than two years of secondary school Latin and demonstrate competence to specialize in this field.

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 Conversation	3	3
Commercial Spanish	4	4
Spanish-American Literature	6	6
Contemporary Spanish Drama	6	6

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 two courses must be chosen from each group.
Group I. Earth Studies:

Climatology	3	3
Geology	3	3
Meteorology	3	3
Physiography	3	3
Cartography	3	3
Group 2. Economic:		
Economic Geography	3	3
Commercial Air Transportation	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 Pennsylvania	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

MATHEMATICS

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

(Required)

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

(Electives)

Synthetic Geometry	3	3	3
Synthetic Geometry	3	3	3
Spherical Trigonometry and Navigation	3	3	3
Statistics	3	3	3
History of Mathematics	3	3	3
College Geometry	3	3	3
Field Work in Mathematics	3	3	3
Calculus III	3	3	3
Mathematics of Finance	3	3	3

GENERAL SPEECH

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

Required)

*Communications I (5-5)			
English I (3-3)			

Cl. Sem.
Hrs. Hrs.

Speech I	2	2	2
*Communication II (5-5)			
English II (3-3)			
Speech II	2	2	2
Phonetics and Voice	3	3	3
Oral Interpretation	3	3	3
Play Production	3	3	3
Speech Program in Sec- ondary Schools	2	2	2
(Electives)			
Stagecraft, Scenic De- sign and Lighting	3	3	3
Debate, group discussion and Parliamentary Proce- dure	3	3	3
Radio I	3	3	3
Radio II	3	3	3
Creative Dramatics and Story Telling	3	3	3
Costume and Make-up	3	3	3
Choral Speaking	3	3	3
Community Dramatics and Pageants	3	3	3
Speech Development and Improvement	3	3	3
Speech Problems	3	3	3

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

SOCIAL STUDIES

(First field 30 S.H.; 15 in History, 15 in Social Science

Cl. Sem.
Hrs. Hrs.

(Required)

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

(Electives)

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

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

HISTORY

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

(Required)

	Cl. Sem.	Hrs. Hrs.
*World Culture I -- (5-5)	3	3
or History of Civilization and Literature I -- (2-2)	3	3
*World Culture II -- (5-5)	3	3
or History of Civilization and Literature II -- (2-2)	3	3
History of the United States and Pennsylvania I ----	3	3
History of the United States and Pennsylvania II ----	3	3
History of the United States and Pennsylvania I ----	3	3
History of the United States and Pennsylvania II ----	3	3
**American Citizenship or American Government (3-3)	6	6
and Home Family Living (3-3)	3	3
ily Living (3-3)	3	3
or Introduction to Philosophy (3-3)	3	3
Teaching Social Studies in the Secondary Schools --	3	3

(Electives)

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

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

**American Citizenship will not count toward second field.

SOCIAL SCIENCE

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

(Required)

	Cl. Sem.	Hrs.	Hrs.
*World Culture I -- (5-5)			
or History of Civilization I and Literature I -- (2-2)	3	3	
*World Culture II (5-5)			
or History of Civilization II -----	3	3	
and Literature II - (2-2)			
History of the United States and Pennsylvania I -----	3	3	
History of the United States and Pennsylvania II --	3	3	
**American Citizenship --	6	6	
or American Government -----	(3-3)		
and Home and Family Living -----	(3-3)		
Introduction to Philosophy -----	(3-3)		

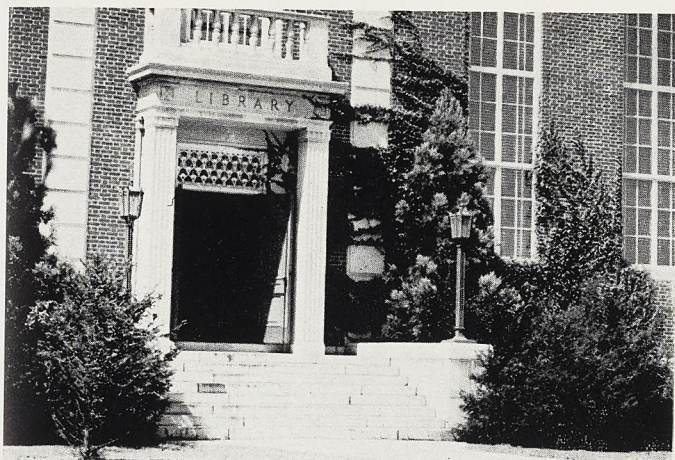
Cl. Sem.
Hrs. Hrs.Principles of Sociology -- 3 3
Principles of Economics -- 3 3

(Electives)

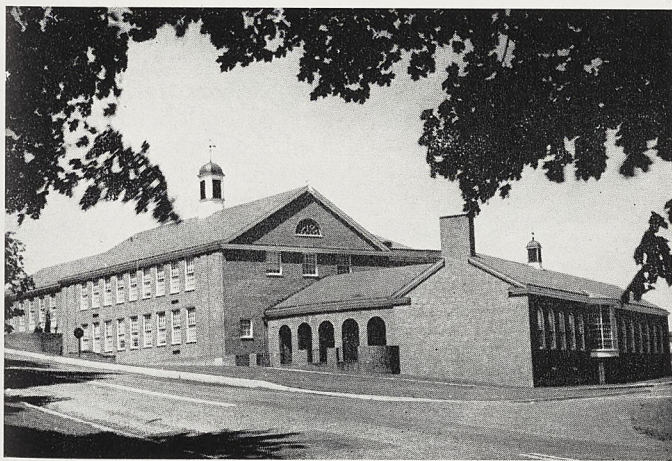
Contemporary Social Problems -----	3	3
Contemporary Economic Problems -----	3	3
Consumer Education ----	3	3
Municipal Government --	3	3
Comparative Government -	3	3
Industrial Relations -----	3	3

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

**American Citizenship does not count toward second field.



LIBRARY



LABORATORY SCHOOL

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

Purpose

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

Teaching Sequence

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

Equipment

Modern office machines are a part of the equipment of the Department. Calculating and adding machines, posting machines, duplicating equipment—mimeograph, mimeoscopes, ditti—dictating and transcribing units, and other up-to-date office appliances 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 stenographic and typewriting teachers far surpasses the supply. Orientation and exploratory courses, and increased guidance in junior high schools have caused a demand for teachers of elementary business training and kindred subjects. The realization that retail selling needs trained personnel has caused an impetus in the demand for teachers prepared in this phase of business education. More and more high schools are taking advantage of the services of graduates of the retail selling course.

The main outcome of the curriculum is qualified teachers of business subjects, but various concomitant learnings emerge during this period of preparation. The dual character of the subject matter enables a graduate to obtain command of various skills that are usable in the business world. Thus, graduates are fitted to serve in the educational world, and also in the business world.

If at the end of two years a student does not desire to complete the full course immediately, he will be prepared to do efficient work in an office until he can return to complete the last two years and obtain his degree.

Practical Experience

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

GRADUATION REQUIREMENTS AND GENERAL INFORMATION

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

BUSINESS EDUCATION CURRICULUM COURSES

Sequence of courses subject to change for administrative reasons.

Basic First Year**FIRST SEMESTER**

	Cl.	Cr.
Communications I -----	5	5
or English I ----- (3-3)		
and Speech I ----- (2-2)		
Business Mathematics I --	3	3
Introduction to Art -----	3	2
Basic Biology -----	4	3
Economic Geography ----	3	3
Health -----	2	2
Total -----	20	18

SECOND SEMESTER

	Cl.	Cr.
Communications II -----	5	5
or English II ----- (3-3)		
and Speech II ----- (2-2)		
Introduction to Music ----	3	2
Basic Physical Science ---	4	3
Professional Orientation -	3	3
Physical Education I ----	2	1
Accounting I -----	4	3
Total -----	21	17

THIRD SEMESTER

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

FOURTH SEMESTER

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

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

FIFTH SEMESTER

	Combined Sequence		Stenog. Sequence		Acct. Sequence		Retail Selling Sequence	
	Cl.	Cr.	Cl.	Cr.	Cl.	Cr.	Cl.	Cr.
Educational Psychology and Evaluative Techniques	3	3	3	3	3	3	3	3
Shorthand III, Transcrip- tion	4	3	4	3	—	—	—	—
Typewriting III, Applica- tions	4	2	4	2	—	—	—	—
Accounting IV	3	3	—	—	3	3	—	—
Business Law I	3	3	3	3	3	3	3	3
Problems of Secondary Business Education	3	3	3	3	3	3	3	3
Electives	—	—	3	3	5	5	8	8
Total	20	17	20	17	17	17	17	17

SIXTH SEMESTER

Business Correspondence	3	3	3	3	3	3	3	3
Secretarial Practice	5	2	5	2	—	—	—	—
Business Law II	3	3	3	3	3	3	3	3
Economics II or Home & Family Living	3	3	3	3	3	3	3	3
Audio-Visual Education	3	2	3	2	3	2	3	2
Methods of Teaching Busi- ness Education	3	3	3	3	3	3	3	3
Electives	—	—	—	—	2	2	2	2
Total	20	16	20	16	17	16	17	16

SEVENTH SEMESTER

Business Organization	2	2	2	2	2	2	2	2
Mathematics of Finance	2	2	2	2	2	2	2	2
Clerical Practice and Office Machines	5	2	5	2	5	2	5	2
Accounting V	—	—	—	—	3	3	—	—
American Government	3	3	3	3	3	3	3	3
History of the United States and Pennsylvania	3	3	3	3	3	3	3	3
Total	15	12	15	12	18	15	15	12

EIGHTH SEMESTER

Student Teaching and Direc- tion of Student Activities	30	12	30	12	30	12	30	12
Professional Practicum in- cluding School Law	2	2	2	2	2	2	2	2
Total	32	14	32	14	32	14	32	14

Degree Curriculum for Dental Hygienists

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

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

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

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

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

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

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

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

This curriculum became effective January 23, 1951.

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

Public School Nurses Curriculum

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

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

A. Courses related to public school nursing

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

B. General and Professional Education

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

C. Electives -----	6
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GRAND TOTAL -----	45
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In the case of nurses with less than three years preparation for registration, such persons will pursue additional courses to meet the requirements for the degree.

Courses of Instruction

THE ARTS

ART

A-1 Introduction to Art

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

2 semester hours

A-11 Art for the Elementary Grades

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

2 semester hours

A-12 Teaching Art in the Elementary Grades

Development of problems suitable for the elementary grades; illustration, creative design, bookbinding, clay modeling and soap carving, posters, lettering, potato and linoleum block printing, and construction in paper, cardboard, cloth, scrap and other materials. Emphasis is placed upon the integration of art education with other school subjects.

3 semester hours

A-30 Problems of Elementary School Art

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

3 semester hours

A-31 Creative Art

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

3 semester hours

MUSIC

A-2 - Introduction to Music

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

—Preparatory Music

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

2 class periods per week. No credit

A-15 Music for the Elementary Grades

Designed to prepare the teacher in grades one to three to teach her own music under supervision. It includes the study of suitable rote songs, acquaintance with reading material, and oral and written ear training. The best practical methods are discussed and used in presenting the material 2 semester hours

A-16 Teaching Music in the Elementary Grades

An advanced course stressing more than ordinarily difficult and interesting work especially the singing of two- and three-part music; designed to prepare and assist the teacher in grades four to six in teaching her own music under supervision. Prerequisite; A-15 3 semester hours

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

Review of fundamental arithmetical processes; reconstruction and extension of computational skills; application of arithmetic to accounting; improvement of quantitative reasoning. 3 semester hours

B-63 Mathematics of Finance

Practical and social application of arithmetic skills in problem-solving as related to credit and installment buying, selling, investments and savings, insurance, analysis of financial statements, interpretation of statistical data. 2 semester hours

B-64 Typewriting I

Presentation and mastery of the keyboard and operating parts of the typewriter; stroking techniques and control emphasized; personal and simple business letters, centering, tabulation introduced. 2 semester hours

B-65 Typewriting II

Further development of stroking speed and control; diagnostic and remedial instruction emphasized; production of mailable letters, manuscripts, multicopy work, business forms; teaching techniques considered. 2 semester hours

B-66 Accounting I, Elementary

Bookkeeping and accounting for the proprietorship; the bookkeeping cycle; special journals and special ledgers; accrued and deferred items; business papers; personal record-keeping. 3 semester hours

B-67 Business Organization and Finance

Historical background of our modern business system; responsibilities of capital and labor to society; basis tools of managements; the productive process; marketing; finance; competition and risk; business and government relations. 2 semester hours

B-68 Clerical Practice and Office Machines

Fundamentals of operating the dictaphone and memo-belt dictation and transcription machines; key driven and rotary calculators; adding and listing machines; mimeograph, and ditto duplicating machines; filing systems; office procedures; business papers. 2 semester hours

B-69 Business Law I

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

B-70 Business Law II

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

B-71 Retail Selling I

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

B-73 Business Correspondence

Review of essentials of grammar; study of the vocabulary of business; setup of business forms and modern business letters; emphasis on the "you" attitude in the writing of letters of inquiry, response, order letters, adjustment letters, sales letters; preparation of data sheets, application letters. 3 semester hours

B-74 Problems of Secondary Business Education

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

B-75 Methods of Teaching Business Education

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

**COURSES REQUIRED IN THE
ACCOUNTING SEQUENCE****B-B-82 Accounting II, Intermediate**

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

3 semester hours

B-B-83 Accounting III, Costs

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

3 semester hours

B-B-84 Accounting IV, Advanced

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

3 semester hours

B-B-85 Accounting V, Auditing

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

3 semester hours

**COURSES REQUIRED IN THE
STENOGRAPHIC SEQUENCE****B-S-82 Shorthand I**

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

3 semester hours

B-S-83 Shorthand II

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

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

B-S-84 Shorthand III (Applications)

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

B-S-85 Typewriting III (Applications)

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

B-S-86 Secretarial Practice

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

COURSES REQUIRED IN THE RETAIL SELLING SEQUENCE

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

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

****B-R-84 Retail Selling IV (Retail Store Management)** 3 semester hours

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

* Accounting II required in the Selling Sequence.

B-90 Office Management

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

EDUCATION

Ed-1—Professional Orientation

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

Ed-2—General Psychology

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

Ed-3—Educational Psychology and Evaluative Techniques

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

Ed-6—Audio-Visual Education

Consideration of the need for sensory techniques and materials in the learning process with attention given to the psychological principles involved. Acquaintance with and achievement of skills in specific techniques, materials, and equipment within his teaching field. Activities will include actual production of material for classroom use and participation in their use. 3 semester hours

Ed-8—Introduction to Philosophy

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

Ed-9—Student Teaching and Direction of Student Activities

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

12 semester hours

Ed-10—Professional Practicum including school law

Methods and practices of teaching. General techniques of teaching and techniques for the students' special field. Pennsylvania school laws relevant to the work of the classroom teacher. Problems encountered by the students in their student teaching. 3 semester hours

**Ed-27—Problems of Secondary Education
including Guidance**

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

Ed-31—Child Psychology

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

Ed-90—Mental Hygiene

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

Ed-91—Psychology of Exceptional Children

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

Ed-92—Public School Organization

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

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

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

El-Ed-12—Teaching of Language

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

El-Ed-13—

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

El-Ed-14—Teaching of Elementary Science

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

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

A survey of methods and techniques, stressing the profitable use of community resources, the development of healthy civic attitudes, and such specific problems as the grade placement of materials, testing, and procedures for creating sustained interest. 3 semester hours

EI-Ed-16—Teaching of Arithmetic

Study of the history and development of our number system. Application of principles of teaching and learning to experience in numbers with balance of emphasis on social and mathematical phases. Introduction to sequential order of arithmetic recommended for each grade level. Adapt to teaching-learning situations the instructional materials of arithmetic including visual and manipulative devices. 3 semester hours

EI-Ed-17—Child Development

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

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

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

EI-Ed-31—Diagnostic and Remedial Reading

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

EI-Ed-32—Child Adjustment

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

ENGLISH**E-1—English I**

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

E-2—English II

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

E-3—Speech I

Study and application of fundamental principles of effective speaking; training in selection, organization, and development of material suitable for speeches; recording and analysis of voice; emphasis on personality adjustment as related to speaking-listening situation; diacritical marking and vocabulary building. 3 semester hours

E-4—Speech II

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

E-5—Literature I

As an introduction to literature, this course is designed to provide opportunities for both wide and extensive reading which will familiarize students with the development of human thought as it has found expression in the recognized literary masterpieces of all times and peoples from the earliest times to mid-seventeenth century. 2 semester hours

E-6—Literature II

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

2 semester hours

E-31—Speech Development and Improvement

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

E-32—Speech Problems

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

E-37—English Literature

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

E-38—American Literature

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

E-39—Modern Drama

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

E-40—English Philology

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

E-41—Advanced Composition

Advanced experience in writing is afforded through the presentation of reviews, digests, and critical reports, employing expository, descriptive, and argumentative techniques. 3 semester hours

E-42—Shakespeare

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

3 semester hours

E-43—Short Story

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

3 semester hours

E-44—Contemporary Novel

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

3 semester hours

E-46—Contemporary Poetry

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

3 semester hours

E-47—Victorian Literature

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

3 semester hours

E-48—Journalism

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

3 semester hours

E-49—Pre-Shakespearean Literature

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

3 semester hours

E-50—The Romantic Movement

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

3 semester hours

E-51—The Essay

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

3 semester hours

E-52—American Poetry

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

3 semester hours

E-53—The Novel to 1870

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

3 semester hours

E-54—Eighteenth Century Literary

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

3 semester hours

E-55—American Prose

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

3 semester hours

E-56—Recent Trends in Teaching English

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

3 semester hours

GEOGRAPHY

G-1—World Geography

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

3 semester hours

G-11—Geography of Pennsylvania and the United States

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

3 semester hours

G-40—Geography of the United States and Canada

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

3 semester hours

G-41—Geography of Latin America

A comparative study of the geographical regions of Middle and South America. The Latin American relations with the United States and the rest of the world are interpreted through an analysis of the economic, social, and cultural activities of man in relation to the physical factors of his environment. Prerequisite: World Geography.

3 semester hours

G-42—Geography of Europe

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

3 semester hours

G-43—Geography in Asia

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

G-44—Climatology and Meteorology

A systematic study of the climate regions of the world and the advantages and limitations of each for man's 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 change. An opportunity is afforded the student to become familiar with the common weather instruments, to observe and record weather data to read and interpret weather maps, and to consider the problems of aviation growing out of atmospheric conditions. Prerequisite: World Geography.
3 semester hours

G-45—Physiography

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

G-46—Conservation of Natural Resources

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

G-48—Economic Geography

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

G-49—Trade and Transportation

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

G-50—Geography of Pennsylvania

A regional analysis of Pennsylvania, emphasizing man's cultural and economic response to environmental factors. Special attention is given to the resources of the state, analyzing their extent, their use, the need for well directed conservation, and the regional planning program of the Commonwealth. Field trips are an integral part of the course. Prerequisite: World Geography and the Geography of Pennsylvania, and the United States. 3 semester hours

G-51—Geographic Influences in History

A study of the relations between the natural environment and the historical movement of man. The course emphasizes the influence of coasts, islands, rivers, mountains, vegetation, and soil in the exploration and the settlement of the United States and in the expansion of the American people from a small nation to a great world power. Prerequisites: World Geography and Geography of the United States. 3 semester hours

G-52—Geography of Africa and Australia

A regional study of Africa, Australia, and the neighboring islands of the Pacific, showing the social and economic development of these lands in relation to their physical environment. The political affiliation of these lands, the geographic aspects of the problems of colonies, land tenure, race, and the significance of strategic location and production are considered. Prerequisite: World Geography. 3 semester hours

G-53—Geography of the Far East

A study of Japan, China, the 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

G-54—World Problems in Geography

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

G-55—Geology

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

G-56—Teaching Geography in Secondary Schools

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

G-61—Economic Geography (Business Education Curriculum)

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

G-62—Commercial and Industrial Geography

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

HEALTH AND PHYSICAL EDUCATION

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

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

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

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

1 semester hour

HEd-4—Health

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

2 semester hours

HEd-5—Teaching of Health and Physical Education

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

2 semester hours

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

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

F-42 and 43—French III and IV

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

F-44—Survey of French Literature I

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

F-45—Survey of French Literature II

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

F-46—Advanced French Language and Techniques

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

F-47—French Classical Drama

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

3 semester hours

F-48—French Literature of the 19th Century

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

3 semester hours

F-49—Development of the French Novel

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

3 semester hours

F-50—French Civilization

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

3 semester hours

F-51—Advanced French Conversation

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

3 semester hours

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

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

6 semester hours

Sp. 42 and 43—Intermediate Spanish I and II

A thorough review of the fundamentals of Spanish grammar and pronunciation is made. Reading material is

chosen from the literature of Spain and Spanish America. Emphasis is placed on the aural-oral technique. Records and tape-recorder are used. 6 semester hours

Sp. 44—Introduction to Spanish Literature

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

Sp. 46—Spanish Conversation

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

Sp. 47—Advanced Spanish Conversation

Everyday idiomatic spoken Spanish with special attention to peculiar expressions is the basis for this course. Remedial work on pronunciation of students is done. 3 semester hours

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

A survey of the history and development of the literature of Spanish American countries is made. A study of the various types and ideas is made by reading from the original works of representative authors. 6 semester hours

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

A study of types of modern drama is made with readings of several representative plays. 3 semester hours

Sp. 52—Commercial Spanish

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

GERMAN

Gr-40 and 41—Beginning German I and II

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

MATHEMATICS

M-40—College Algebra

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

3 semester hours

M-41—Trigonometry

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

3 semester hours

M-42—Analytic Geometry

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

3 semester hours

M-43—Calculus I (Differential)

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

3 semester hours

M-44—Calculus II (Integral)

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

3 semester hours

M-45—Statistics

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

M-46—Advanced College Algebra

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

M-47—Synthetic Geometry

A course coordinating and extending the skills in geometry and developing the ability to make constructions of a higher order than those in other fields of mathematics. The aims and techniques of teaching geometry are emphasized. 3 semester hours

M-48—History of Mathematics

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

M-49—Field Work in Mathematics

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

M-50—Spherical Trigonometry and Navigation

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

M-51—Advanced Calculus

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

3 semester hours

M-52—Mathematics of Finance

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

3 semester hours

M-56—Teaching of Mathematics in the Secondary School

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

3 semester hours

SCIENCE**Biology****Bi-41—Botany I**

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

4 semester hours

Bi-42—Botany II

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

4 semester hours

Bi-43—Zoology I

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

Bi-44—Zoology II

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

Bi-45—Ecology

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

Bi-46—Entomology

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

Bi-48—Vertebrate Anatomy

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

Bi-49

The purpose of this course is to give the student an understanding of the laws of inheritance as they operate

in plants, animals, and humans. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing over, and random assortment are all considered. Prerequisite: 6 hours of Biology 3 semester hours

Bi-50—Parasitology

This course considers the anatomy, physiology, life history, and habits of representative parasites of man and his domesticated animals. Means of prevention, detection, and control are emphasized. Special attention is given to those forms likely to be encountered in the area of the college. Prerequisites: Zoology I and II. 3 semester hours

Bi-51—Field Botany

This course emphasizes taxonomy. Common names of many plants found in the community are studied, and the scientific names. Phyla are studied and the family characteristics of the most common flowering plants are made a feature. Considerable emphasis is given the ecological aspects of plant groups. 3 semesters hours

Bi-52—Field Zoology

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

Bi-53—Physiology

The purpose of this course is to give the student a general background of how animals carry on bodily processes and a more detailed knowledge of human physiology. Related anatomy is taught as needed. Prerequisites: Zoology I and II. 3 semester hours

Chemistry

Ch-41—Inorganic Chemistry I

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

Ch-42—Inorganic Chemistry II

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

Ch-43-44 Quantitative Analysis I and II

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

Ch-45 Organic Chemistry I

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

Ch-46 Organic Chemistry II

This course is a continuation of Organic Chemistry I. It deals primarily with the amines and proteins and those compounds belonging to the aromatic series. Both micro and semi-micro techniques are employed to stress the properties and type reactions of the usual classes of organic compounds. Prerequisite: Organic Chemistry I. 3 semester hours

Ch-49 Biological Chemistry

This course includes the chemistry of proteins, fats, carbohydrates, minerals, and vitamins, and the biological functions of each. Digestive and metabolic changes are studied by laboratory tests and animal feeding experiments. Prerequisite: Organic Chemistry I. 3 semester hours

Ch-51 Physical Chemistry

This course is an introduction to the fundamental principles of theoretical chemistry with application in the solution of problems and training in the techniques of physical-chemical measurements. The following topics are in-

cluded; phase rule, properties of solutions, liquids, solids, gases, surface tension, vapor pressures, osmotic pressures, chemical cells, buffers, indicators, oxidation-reduction potentials, and conditions affecting chemical equilibria. Prerequisites: Inorganic Chemistry and Physics I and II.

3 semester hours

PHYSICS

Ph-41—Physics I

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

4 semester hours

Ph-42—Physics II

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

4 semester hours

Ph-43—Mechanics

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

4 semester hours

Ph-44—Magnetism and Electricity

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

4 semester hours

Ph-45—Electronics

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

Ph-46—Heat

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

Ph-47—Physical Measurements

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

Ph-48—Modern Physics

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

Bs-I—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

Ps-I—Basic Physical Science

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

3 semester hours

S-II—Science for the Elementary Grades

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

3 semester hours

S-27—Science in Modern Civilization

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

3 semester hours

S-56—Teaching of Science in the Secondary School

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

3 semester hours

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

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

SS-I—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

SS-2—History of Civilization II

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

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

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

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

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

SS-42—History of Europe since 1815

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

SS-43—Twentieth Century World History

A study of those movements which constitute the modern world: the evolution of nationalism; the challenge of socialism, communism and 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, SS-1 and SS-II. 3 semester hours

SS-44—History of Pennsylvania

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

SS-45—History of the Middle East and India

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, SS-I and SS-II. 3 semester hours

SS-46—History of England

Emphasizes those contributions which England has made to Western Civilization: the fusion of parliamentary government, civil liberties and monarchy; the evolution of a colonial empire into a Commonwealth of nations; the transition from an agrarian economy through merchant and industrial capitalism to the present socialist order; and the social background of English literature. Prerequisites, SS-1 and SS-2. 3 semester hours

SS-47—History of the Far East

The important historical developments and cultural achievements of the Orient, including China, India and Japan, are surveyed to provide an understanding of recent events there. The modern relations of Eastern Asia with Europe and America are traced, and the results of this impact upon both civilizations are studied. Prerequisites, SS-1 and SS-2. 3 semester hours

SS-48—History of Latin America

This course surveys the development of the Latin American countries from the period of discovery to the present. The economic, social, political and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. Present day problems are stressed. 3 semester hours

SS-49—Diplomatic History of the United States

A survey of American foreign relations from the Revolutionary War period to the present with emphasis on the diplomacy leading to America's recent world leadership. Special attention is given to factors determining our foreign policies, such as influences from abroad, the American press and public opinion and special interest groups. Prerequisites, SS-5 and SS-6. 3 semester hours

SS-50—International Relations 1919 to the Present

A course dealing with twentieth century developments of the national state, regional pacts and international organizations, and at the same time with imperialism, power politics and intensified warfare. Attention is given to the changing status of international law and courts and to the conduct of diplomacy. Such problems are studied as human rights, refugees, minorities and conflicts between opposing cultural economic and ideological groups. Prerequisite, SS-6 or SS-42 or SS-43. 3 semester hours

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

An introductory course stressing the fundamental principles of American Constitutional Government. Emphasis is placed upon the evolutionary development of our government from a simple one of an agrarian economy into a complex one with economic, social and political functions in an industrial society. Political parties, elections, citizenship, and civil liberties are carefully considered. 3 semester hours

SS-11—Social Studies and Geography

This course is designed to acquaint prospective teachers of children in the elementary school with the subject matter, materials and procedures in the fields of Social

Studies and Geography necessary to teach pupils effectively the problems involved in Social Living.

3 semester hours

SS-51—Principles of Economics

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

3 semester hours

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

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

3 semester hours

SS-54—Comparative Government

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

3 semester hours

SS-55—Municipal Government

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

3 semester hours

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

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

3 semester hours

SS-57—Principles of Sociology

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

3 semester hours

SS-58—Contemporary Social Problems

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

3 semester hours

SS-59—Home and Family Living

This course deals with the development of the family and the home of 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.

SS-60—World Economic Problems

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

3 semester hours

SS-61—Economics I

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

3 semester hours

SS-62—Economics II

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

3 semester hours

Student Activities

Government

The Student Cooperative Association

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

The President's Council

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

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

Student Government Organizations

Five student government organizations exist at this college: one for day student women one for boarding student women, one for day student men, one for boarding student men, and one for Stewart Hall, the student activity center. Each organization has its officers and is responsible to the Dean of Men or Dean of Women respectively and to the President's council for the social life of the college, including such behavior problems as 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, as well as college and community service. To become a member of this organization a student shall have sight reading ability and a pleasant quality of voice.

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

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

College Band

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

College Orchestra

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

ATHLETICS

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

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

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

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, etc.

The Athletic Council

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

DRAMATICS

The Masquers

The Masquers is an organization designed for students interested in dramatics. Members are given opportunity not only to take acting parts, but also to direct plays and to experiment with lighting, make-up and staging. In 1951-52 the Masquers presented five major productions as well as one-act plays at the regular weekly meetings of the organizations. Membership is limited and determined by competitive try outs.

STUDENT PUBLICATIONS

Campus Reflector

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

The Cumberland

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

The Handbook

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

CLUBS

Archery Club

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

Art Association

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

The Business Education Club

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

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

Elementary Education Club

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

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

English Club

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

French Club

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

Spanish Club

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

Future Teachers of America

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

The Debating Association

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

The Intercollegiate Conference on Government

This group consists of students who participate in three day sessions of the Intercollegiate Conference in Harrisburg late in April. Students from about thirty Pennsylvania colleges and universities participate in the work of model

government-body, such as a legislature, constitutional convention, or a national party convention, thus learning by doing. During the second semester the student group meets one hour weekly in preparation for active part in the Harrisburg conference.

International Relations Club

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

Mathematics Club

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

Kappa Delta Pi

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

Phi Sigma Pi

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

Phi Sigma Chi

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

Pi Omega Pi

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

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

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 up to date films in the field of science, and industry. The club is open to all students in the College.

Aquatic Club

This club is sponsored by the W. A. A. for women who wish instruction in advanced swimming. The club also sponsors sport days, demonstrations, and recreational meets. Courses in senior life-saving are given and certificates awarded.

Varsity Club

Men who have won a varsity award in intercollegiate sports at Shippensburg are eligible for membership in this organization. The purpose of the club is to promote amateur intercollegiate athletics on this campus, and creating 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. It financed the 1951 Homecoming Dance to which all alumni were guests of the club.

ALUMNI

In eighty years of its existence, Shippensburg has graduated approximately 6000 students from its various curricula. Many of these graduates are engaged in the teaching profession throughout Pennsylvania and are well represented in many other states. More than 2,000 of these graduates have received a Bachelor of Science degree at this institution since 1927.

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

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	ROBERT LESHER—1928 and 1929
First Vice President	J. CLYDE ZIEGLER—1910
Second Vice President	ROBERT BLOOM—1936
Secretary	MYRA C. ESH—1926
Treasurer	ERMA K. ROLAR—1918

Term Expires Alumni Day 1952

PAUL E. SHULL, '23 and '32	Waynesboro, Pa.
JESSE S. HEIGES, '91	Collegeville, Pa.
PAUL S. LEHMAN, '21	Lewistown, Pa.

Term Expires Alumni Day 1953

RALPH SWAN, '25 and '31	New Bloomfield, Pa.
HAROLD C. WELSH, '17	McConnellsburg, Pa.
J. WILLIAM BARBOUR, '26 and '30	Shippensburg, Pa.

Term Expires Alumni Day 1954

BLANCHE STOOPS	Ardmore, Pa.
ROBERT BEARD	Chambersburg, Pa.
JAY FICKES	Dover, Del.

ALUMNI COUNCIL

High School	County	Alumnus
Altoona	Blair	Frank Mastrocola Julia Schulz Ethel McCormick Paul E. Mowry James Gibboney L. V. Stock
Bedford	Bedford	Mrs. Carl Hambright
Belleville	Mifflin	Sara E. Drake
Biglerville	Adams	William Earp
Burnham	Mifflin	Charles Lehman
Camp Hill	Cumberland	Robert Beard
Carlisle	Cumberland	Kenneth Gabler Ida Heller John Harris John Neeley
Chambersburg	Franklin	William Shearer Paul Hurley Elmer W. Gruver
Cheltenham Township	Montgomery	Mrs. Cora Eby Geiss Claude Larimer George Inskip
Darby	Delaware	Robert Kochenhour
Dry Run	Franklin	Charles I. Raffensperger G. W. Lefever William Conrad
Duncannon	Perry	Robert F. Leshner F. M. Barrick
East Berlin	Adams	Alexander McCune Charles H. Ebner Guy Shumaker
Elizabethville	Dauphin	A. Sterling King Tyrell Robinson
Everett	Bedford	Griff Jones, Jr.
Fairfield	Adams	Mrs. Frank W. Magill Jerry F. Trostle
Fannettsburg, Metal Twp.	Franklin	Monroe S. E. Gobrecht Roy Kraber Harvey Bolan Jacob Brake
Gettysburg	Adams	Mrs. Charles Lehman Calder Geedy Samuel Shearer Frank Coffey C. R. Coyle
Greencastle	Franklin	W. Michael Weader Harold Welsh Claude Mellott Richard Kitzmiller
Hagertown, Md.	Dauphin	Dean W. Brumbaugh Maclay Kelly Charles Shields
Halifax	Dauphin	Estella Whitmore S. A. Johnson Myra Rodgers
Harrisburg	Dauphin	
William Penn	Dauphin	
William Penn	Dauphin	
John Harris	Dauphin	
Hershey	Dauphin	
Highspire	Dauphin	
Holidaysburg	Blair	
Huntingdon	Huntington	
Johnstown	Cambria	
Landisburg	Perry	
Lansdowne	Delaware	
Lebanon	Lebanon	
Lemasters	Franklin	
Lemoyne	Cumberland	
Lewistown	Mifflin	
Lykens	Dauphin	
McClure	Snyder	
McConnellsburg	Fulton	
McVeytown	Mifflin	
Martinsburg	Blair	
Mechanicsburg	Cumberland	
Mechanicsburg	Cumberland	
Mercersburg	Franklin	
Middletown	Dauphin	
Mifflintown	Juniata	

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

ROSTER OF STUDENTS

1951-52

- Adams, Kenneth J., Johnstown
 Adams, Robert L., Tower City
 Ahlers, Ronald O., Carlisle
 Allan, Kathryn A., Shippensburg
 Allen, Phobe J., Scotland
 Allison, Herbert W., Swarthmore
 Allison, James J., Belleville
 Allison, Roy W., Burnham
 Amato, Domenica R., York
 Anderson, Marylou, Harrisburg
 Anderson, Stanley E., Avalon 2
 Angle, Dolly L., Mercersburg
 Angle, Jacque D., Shippensburg
 Angle, Lois Z., Chanbersburg
 Appel, Elden R., Shippensburg
 Appleton, Helen M., Bristol
 Arcuri, Frank J., York
 Arnold, Edith O., Calasauqua
 Aurand, Dale K., Lewistown
 Baker, M. Jacqueline, Carlisle
 Baker, Paul B., Marion
 Barger, Carl F., Lewistown
 Barnhart, Beverly A., Hanover
 Barr, William H.,
 Juniata, Altoona
 Barrick Walter A., Carlisle
 Bashore, Jane I., Altoona
 Beam, Gerald C., Gardners
 Bearer, James F., Carrolltown
 Bellas, Edward A., Colver
 Berkstresser, Clifford, Laidig
 Bickel, Donald E., Encla
 Biddle, Glanard L., Hanover
 Bigelow, Marilyn J., Belleville
 Bishop, Jocuelin M., Shippensburg
 Bitner, Gary F., Altoona
 Bitner, Joanne L., Chambersburg
 Bivens, Mary A.,
 McConnellsburg
 Blackburn, Joanne R., Sidman
 Blake, Edwin W., Hollidaysburg
 Bock, Roberta A., Waynesboro
 Bock, Bernice M.,
 Atlantic Highlands, N. J.
 Boden, Suzanne, Ickesburg
 Boettcher, Patricia A.,
 Springlake, N. J.
 Bolton, Fredrick E., Shippensburg
 Bonitz John A., Windber
 Boretos, Pauline A., Harrisburg
 Bowen, F. Joan, Chambersburg
 Bowling, James M., Waynesboro
 Bowman, Anna W., Mercersburg
 Bowser, Dean Altoona
 Boyd, Catherine E., Chambersburg
 Boyd, Donald A., Newville
 Boyer, Floyd D., Shippensburg
 Braim, Joseph E., Philadelphia
 Brake, John C., Mercersburg
 Brehm, Donald R., Carlisle
 Brehm, Joan L., Newville
 Brenneman, Idelle, Shippensburg
 Bressler, George D., Wilmerding
 Brickner, Gloria Ann
 Colonial Park
 Brown, Bernard J.,
 Penns Grove N. J.
 Brown, Daniel J., Bellewood
 Brown, John W., Altoona
 Brown, Richard V., Chambersburg
 Broyles, Kenton H., Waynesboro
 Bryant, Mary R.,
 Prospect Park
 Bull, Jacquelyn E., York
 Burger, John R., York
 Burkert, Joyce, Lewistown
 Burkholder, Naomi K., Newville
 Burnhemier, Charles F., Altoona
 Burns, Patricia A., Harrisburg
 Bushey, Archie L.,
 Spring Grove
 Cable, Nancy J., Shippensburg
 Callen, Matthew III, Harrisburg
 Camplong, Eugene T., Clearfield
 Campbell, Estella, Shippensburg
 Campbell, Joanne A., Lewistown
 Cannon, Edmund, Passaic, N. J.
 Carbaugh, Maragret M.,
 Chambersburg
 Carlson, Carl A., Williamstown
 Carson, Richard O., Waynesboro
 Champion, Helen L., Lemoyne
 Chaney, A. Francis, Hopewell
 Chapparone, Anthony L.,
 Philadelphia
 Charlton, D. Joanne, Warfordsburg
 Cherry, George W., Jr.,
 Palmyra ,N. J.
 Chomas, Theodore R., Elizabeth
 Cisney, Joretta J., Shippensburg
 Claar, Francis P., Hollidaysburg
 Clevenger, Paul D., Newville
 Clever, Dorothy F., Shippensburg
 Clopper, Donald L., Waynesboro
 Clouse, Joanne M., Newville
 Clouser, Louise A., Newpoort

- Coble, Martha E., Chambersburg
 Coble, Wanda E., Harrisburg
 Cockley, William H., Chambersburg
 Coder, Charles E., Shippensburg
 Coleman, Murdock W.
 Elizabeth, N. J.
 Coleman, Richard N.
 Beaver Springs
 Colston, Victoria I., York
 Cook, Charles L., Tunkhannock
 Cook, Vera L., Fayetteville
 Coons, Lehman L., Mount Union
 Cooper, Charlotte P., Harrisburg
 Corkle, William I., Shippensburg
 Coulson, William L., Carlisle
 Craft, James E., York Haven
 Cramer, Carl L., Newburg
 Crawshaw, James F., Philipsburg
 Creager, Max E., Waynesburg
 Creasey, Richard G., Wormleyburg
 Cressler Mary Ann, Shippensburg
 Crist, Barbara F., Shippensburg
 Culler, Verda L., Hancock, Md.
 Cunningham, Fredric M.,
 Mount Union
 Cutshall, E. Pauline, Connellburg
 Cutshall, Robert R.
 Big Cove Tannery
 Daddario, James D., Lewistown
 Daihl, Robert E., Newburg
 Dapp, Kenneth E., Harrisburg
 Daugherty, Louella
 Davidson, Jay F., Shippensburg
 Davis, Harold E., Blandburg
 Davis, J. Bruce, Reedsville
 Deardorff, Lucille A., Fayetteville
 Defibaugh, Willard G., Defiance
 Deibler, George E., Harrisburg
 Dell, Harold D., Mount Union
 DeShong, Donna J., McConnellsburg
 DeShong, Sylvia J., Shippensburg
 Diehl, Nancy J., Mann's Choice
 Dillard, Daisy B., Carlisle
 Dillard, Ethel P., Carlisle
 Dillard, O. Sandra, Carlisle
 Dillen, Chester L., Bellwood
 Dillman, Harry H., Harrisburg
 Dissinger, JoAnn E., East Berlin
 Dixon, Ann H., Bristol
 Dorsey, Jack C., Chambersburg
 Downing, Dorene, Lewistown
 Drake, F. Ruth, Lewistown
 Dubbs, Arlene L., Shippensburg
 Duncan, David D., Tyrone
 Eastep, Patricia R., Williamsburg
 Eby, Iona R., Elizabethtown
 Eckard, Merle N., Lewistown
 Eigenbrode, Richard D., Smiths-
 burg., Maryland
 Ellis, Raymond, Philadelphia 40
 Elser, Patricia L., Shippensburg
 Engle, Wanda J., Amaranth
 Epley, Elaine, Lansdowne
 Eppley, John W., Plainfield
 Erb, Calvin N., Blairs Mills
 Erdman, Marie M., Gratz
 Esh, Mary Jane, Lewistown
 Etter, Joanne M., Chambersburg
 Evans, Gomer D., Ebsenburg
 Failor, James C., Lemasters
 Farrell, Anna M. Burnham
 Feather, Franklin G., Altoona
 Feather, James R., Altoona
 Feather, John R., Altoona
 Feeser, Shirley J., Hanover
 Fehr, Robert L., Harrisburg
 Feiser, Queenie M., East Berlin
 Fenton, Lyman T., Carlisle
 Ferguson, Vernon W., Shippensburg
 Fickel, James E., Lemoyne
 Filipovitz, Dolores E., Security, Md.
 Fink, Kenneth L., Philipsburg
 Finkenbinder, Ronald L., Lemoyne
 Fisher, David S., Mann's Choice
 Fisher, Robert L., Harrisburg
 Flick, William C., Altoona
 Fogelsonger, John W., Shippensburg
 Fogelsonger, Barbara A.,
 Chambersburg
 Forcellini, Lindbergh C., Nanty-Glo
 Forrester, Laura J., Scotland
 Fortna, Anna L., Shippensburg
 Foster, Patricia L., Altoona
 Foster, Robert G., Harrisburg
 Fowler, Robert H., Bellwood
 Freeman, Barbara G.
 Holidaysburg
 Freet, G. Emory, Jr., Duncannon
 Frye, Marjorie A., Martinsburg
 Fuhrman, Lowell K., Hanover
 Fullerton, Garnett A., Bridgeville
 Fuss, Mildred L., New Oxford
 Galbraith, Walter R., Altoona
 Gant, Edward L., Norristown
 Garson, Joan V., Wyncote
 Gates, Charles E., Jr., Petersburg
 George, Kenneth L., Robertsdale
 Gerdes, Richard M., Harrisburg
 Gerlock, Edward J., Shippensburg
 Gettel, Jean A., Shippensburg
 Getz, Melvin C., Tyrone
 Geyer, Phyllis B., Shippensburg
 Gingerich, Lois E., York
 Glass, Robert D., Altoona
 Glassmyer, Carolyn L., Lemoyne
 Glee, Audrey C., McConnellsburg
 Glee, Evelyn R., McConnellsburg
 Goodhart, Carolyn L., Newville

- Goodling, Kenneth E.,
Thompstontown
- Goodling, Robert E., Cocolamus
- Graf, Nancy A., Camp, Hill
- Greco, Edward A., Philadelphia
- Green, Doris A., Chambersburg
- Gross, Harry E., Thomasville
- Gross, Mary W., Dauphin
- Group, Mary L., Gettysburg
- Grove, Jane H., Alexandria
- Grove, Richard K., Altoona
- Grubb, Ann M., Williamstown
- Gruver, Martha L., Harrisburg
- Gunnet, John A., Spring Grove
- Gural, Michael, Altoona
- Guss, Suzanne J., Mifflintown
- Gutbub, Ruth L., Cornwall
- Gutschall, Donald R., Huntingdon
- Hafer, Suzanne M., Shippensburg
- Hager, Darlene E., Enhaut
- Hahs, Shirley C., Aldan
- Hall, Sandra C., Orrtanna
- Hancock, Eleanor E., Altoona
- Hanna, C. Sue, Lewistown
- Hargleroad, John M., Chambersburg
- Harling, Richard C., Camp Hill
- Harman, Jack E., Chambersburg
- Harner, George E., Littlestown
- Harper, Albert S., Croydon
- Harpster, Harry R., Reedsville
- Harris, Kathryn E., Orland
- Harris, John L., Orland
- Hartman, Carol E., Loysburg
- Hassler, Carolyn M., Chambersburg
- Hatchell, Marjorie M., Harrisburg
- Hatfield, Steven F., Altoona
- Hauber, Fred W., Lemoyne
- Haugh, Gerald E., York
- Hawk, Kenneth L., Hanover
- Hawn, Ruth E., Petersburg
- Hayden, Beatrice A., Aliquippa
- Hays, Herbert E., Shippensburg
- Heberlig, Joanna B., Newburg
- Heckler, James R., Chambersburg
- Heffelbower, Betty L., Shippensburg
- Heiges, Fred C., York
- Heistand, Roy E., Hershey
- Helman, Thomas R., Marion
- Hench, Robert R., Harrisburg
- Henderson, Martha L., Alexandria
- Hengst, Harold W., Bedford
- Henry, Samuel F., Harrisburg
- Henry, Doris J., New Enterprise
- Hepner, James J., Shippensburg
- Herr, Edwin L., Carlisle
- Hess, Barbara A., Waynesboro
- Hess, Jean E., Saxton
- Hess, Kieth L., Waynesboro
- Hess, Nancy L., Waynesboro
- Hess, Shirley A., Lewistown
- Hildebrand, Wilbur J., Hanover
- Hissong, J. Faust, Chambersburg
- Hocker, Elaine W., Harrisburg
- Hockersmith, Lee, Shippensburg
- Hoffman, V. Janet, Saltillo
- Holbert, John W., Greencastle
- Hollenshead, John A., Needmore
- Holley, Josephine E., Philadelphia
- Holmes, Donna R., Harrisburg
- Hoover, Barbara A., Wrightsville
- Hoover, Rodney L., Newburg
- Horner, Phyllis R., Harrisburg
- Horst, Lloyd H., Enola
- Howell, Roy E., Middletown
- Humphreys, Madeline R.,
McConnellsburg
- Hunsberger, William A.,
Slatington
- Hursh, Patricia A., Newville
- Hutchinson, James F.,
Philadelphia 31
- Hyatt, Phyllis J., Altoona
- Hykes, Virgil L., Greencastle
- Iaccarino, Peter J., West Lawn
- Imbrognio, Adeline M.,
Harrisburg
- Ingels, Charles R., Waynesboro
- Isaacman, Joel L., Harrisburg
- Itinger, Mary Lou, Alexandria
- Iwanczyk, Angelus L.
- Jacoby, Carl L., Harrisburg
- Jenkins, Geraldine L., Defiance
- Johnson, Robert B., Philipsburg
- Johnson, Theodore E., York
- Jones, Lois A., Shermans Dale
- Jones, Marilyn L.,
Mechanicsburg
- Judge, John A., Camp Hill
- Jumper, Eldon D., Newville
- Justice, Jeanne E.,
Hollidaysburg
- Kadel, Charles A., Chambersburg
- Kaiser, Charles W.,
Chambersburg
- Karam, Mary Louise Steelton
- Kauffman, Nancy J., Langhorne
- Kaup, Nancy L., Lewistown
- Keane, Betsy, Harrisburg
- Keefer, Anita M., Chambersburg
- Keefer, Ross Z., Shippensburg
- Keen, William D., Williamstown
- Keiser, Marilyn D., Lewistown
- Keller, John E., Shippensburg
- Keller, Lois H., Shippensburg
- Keller, Richard M., Bellwood
- Keller, Willis, Bellwood

- Kennedy, Arletta J., McCoysville
 Kennedy, June M., Harrisburg
 Kercheval, Edward C.,
 Waynesboro
 Kercheval, William C.
 Waynesboro
 Kerchner, Ida M., Mifflin
 Keyes, Sterling S.
 Atlantic Highlands, N. J.
 Kiefman, Robert R., Riddlesburg
 Killalea, Patricia Ann,
 Gettysburg
 King, Nancy A., Espy
 King, Norma H., Shippensburg
 Kirk, Robert C., McVeytown
 Klenzing, Winifred J.,
 Chambersburg
 Kline, Margaret Y., Harrisburg
 Klinger, Josephine E., Sunbury
 Klinger, Lloyd E., Sunbury
 Klock, Beverly J., York
 Knapp, Richard, Carlisle
 Knohr, Janet L., Gratz
 Knohr, Ralph J., Gratz
 Koehler, Barbara Ann,
 Harrisburg
 Kohler, Joseph F., Chambersburg
 Kohler, Norma J., York
 Kolva, LeRoy C., Shippensburg
 Koontz, Oscar J., Shippensburg
 Kopec, Richard J.,
 Wallington, N. J.
 Kosier, Gladys L., Lykens
 Kurlansk, Leon, York
 Kyle, Nancy L., Chambersburg
 Kyner, Jayne A., Chambersburg
 Laderach, Joan C., Kinzer
 Laird, Roderick M.,
 Chambersburg
 Lane, Weldon C., Lewistown
 Lauer, William C., Tamaqua
 Laughlin, H. Joanne, Tyrone
 Lease, Mary K., York
 Leeper, Glenda F., Mifflintown
 Leitch, John J., Babylon, N. Y.
 Lenker, Helen E., Pillow
 Leonhard, Ronald R., Duncannon
 Lewis, Philip L., York
 Lickel, George R., Altoona
 Lightner, C. Robert, York
 Linsky, Marilyn C.,
 Shippensburg
 Long, Janet A., Carlisle
 Long, Joseph M., Bethlehem
 Love, Eleanor J., East Waterford
 Ludwig, Catharine M.,
 Chambersburg
 Lugenbeel, Thomas E.,
 Chambersburg
 McCann, John E., Shippensburg
 McCleary, Harold L., Marion
 McClelland, Frank T.,
 Weirton, W. Va.
 McCloskey, Joseph F., Pottsville
 McCullough, Joseph P., Carlisle
 McDermott, John J.,
 Chambersburg
 McDonnell, Catherine E.,
 Sunbury
 McGhee, Edwin R.,
 Chambersburg
 McKee, Margaret J.,
 Chambersburg
 McLamb, Larrie H., Steelton
 McLaughlin, Elizabeth,
 Fort Loudon
 McLaughlin, Shirley R.,
 Fort Loudon
 McMillen, Faye E., Loysville
 McMillen, Fern M., Loysville
 McMullen, Helen L., Shade Gap
 MacFarlane, Albert R.,
 Plymouth Meeting
 MacNeil, Alice J., Hollidaysburg
 Maclay, William R.,
 Shippensburg
 Madden, Bonita R.,
 Big Cove Tannery
 Magaro, Louise M., Harrisburg
 Magee, Patricia Ann, Amberson
 Magill, Kenneth D., Duncansville
 Mahoney, Norabel, Altoona
 Malamos, H. Phyllis,
 Shippensburg
 Malone, Margaret L.,
 Chambersburg
 Mariner, Andrew, Philadelphia
 Marsh, Fred L., Hanover
 Martin, Janet A., Shippensburg
 Martin, Joan B., Colonial Park
 Martin, Lee G., Chambersburg
 Martin, Leon R., Chambersburg
 Martin, Nancy L., Chambersburg
 Mason, Mary Lou, Chambersburg
 Maurer, Albert I., Tremont
 Maurer, Thayne W., Tremont
 Meade, Maureen G.,
 Bradley Beach, N. J.
 Meckley, Patricia Ann,
 Juniata, Altoona
 Mehring, Owen H., Hanover
 Mell, Nancy Lee, Carlisle
 Mencer, Glade V., Lock Haven
 Meredith, Berk B., Shippensburg

- Miller, Barbara Ann, Harrisburg
 Miller, Barbara Ann,
 Shippensburg
 Miller, Carroll G., Chambersburg
 Miller, Charles L., Millersburg
 Miller, Eleanor G.,
 New Cumberland
 Miller, James F., Carlisle
 Miller, Joyce D., Altoona
 Mills, Carolyn E., Mount Union
 Mills, Charles W.,
 Atlantic Highlands, N. J.
 Mills, Olvin,
 Atlantic Heights, N. J.
 Minick, Glenn S., Newburg
 Minick, Harry N., Newburg
 Minnick, Patricia Ann,
 Shippensburg
 Minnick, William R.,
 Shippensburg
 Mitch, Mary Ann, Bethlehem
 Mixell, Sheldon L.,
 Chambersburg
 Mock, Dorothy J., Everett
 Monn, Jeanne E., Fayetteville
 Moore, Bernard J., Jr., Altoona
 Moore, Gary M., Union Deposit
 Moore, Ramona L., Neelyton
 Morgart, Donald T.,
 Roaring Spring
 Morral, M. Kathleen, Clearville
 Morris, Donald M., Carlisle
 Morrison, Robert E., Steelton
 Motter, James R., Littlestown
 Moyer, Leon W., West Lawn
 Mundis, Janet F., York
 Murdoch, George W.,
 Pittsburgh 5
 Myers, Charlotte K., York
 Myers, Donald P., Tyrone
 Myers, Jack E., Gardners
 Myers, Henry D., Orrstown
 Nace, Eleanor T., Harrisburg
 Neady, Frances A., Waynesboro
 Neely, Donald L., Hollidaysburg
 Nell, Richard F., Dillsburg
 Nesbit, James C., Wellsville
 Nesbit, Joan L., Dillsburg
 Ness, Robert E., York
 Nolan, Helen J., Newburg
 Novinger, Joyce A., Harrisburg
 Nuss, Karl K., Highspire
 Oates, James G., Philadelphia
 Ogden, Nancy J., Gettysburg
 Oiler, Jay F., Newville
 Oliver, Lois S., Chambersburg
 Osman, Richard E., Harrisburg
 Owens, Gwendolyn B.,
 Shippensburg
 Oyler, E. Jane, Gettysburg
 Papoutsis, James N.,
 Shippensburg
 Parker, Gerald B., Tyrone
 Peck, Rose M., Tyrone
 Penn, Thomas F., Philipsburg
 Pescuma, Ralph A.,
 Babylon, N. Y.
 Peters, Paul W., Scotland
 Pettenati, Delphine F., Altoona
 Pfahler, Donald R., Bellwood
 Pheasant, Emma M., Cassville
 Pine, Shirley M., Altoona
 Plack, Annabelle R., Harrisburg
 Polesky, Fred P., Bentleyville
 Powell, Robert E., Shippensburg
 Pryor, Sarah J., Waynesboro
 Putt, Daniel R., Saxton
 Radel, Barbara Anne,
 Penbrook, Harrisburg
 Raffensperger, Donna E.,
 Camp Hill
 Reber, Beverly J., Hanover
 Reber, Ray W., West Reading
 Redfern, William J.,
 Clifton Heights
 Reed, Doris M., Alexandria
 Reed, Jack S., Aitch
 Reed, Marjorie I., Alexandria
 Reed, Mary C., Dudley
 Reed, Paul R., Aitch
 Reeder, Marcia N., Yeagertown
 Reese, Ruth E., Shippensburg
 Rehm, William P., Etters
 Reichard, Glendora E.,
 Waynesboro
 Reifer, James T., Houtzdale
 Replogle, James R.,
 New Enterprise
 Rettinger, Marie M., Halifax
 Rhen, Mary Ann, Pine Grove
 Rhoads, Richard, Philadelphia
 Rhodes, Richard C., Hanover
 Richards, Max E., Jr., Philipsburg
 Richardson, Margaret L.,
 Newville
 Richter, Conrad B., Millersburg
 Richwine, Harold J., Harrisburg
 Richwine, Keith N., Harrisburg
 Ricketts, Janet L., Havertown
 Rinick, Colleen M.,
 Chambersburg
 Rinick, Henry B., Chambersburg
 Ritter, Arthur J., Harrisburg
 Roberts, Carol Ann, Summerdale
 Roberts, Roger A., Ebsenburg

- Robertson, Donald E., York
 Rock, Robert S., Chambersburg
 Rockwell, Myers D., Mercersburg
 Rodgers, Dean T., Milroy
 Rohrer, Mary E., Duncannon
 Roland, Calvin E., Hanover
 Roll, Franklin D., Mount Union
 Romano, Peter, Penns Grove, N. J.
 Romano, Salvador A., Windber
 Rosenbery, Jane A., Mount Union
 Ross, Ernest J., Robertsdale
 Roth, James M., Jr., Harrisburg
 Rotz, Edward D., Three Springs
 Routsong, Jacquelin B.,
 Gettysburg
 Row, Herman E., Williamstown
 Rowan, John E., Harrisburg
 Rudy, Margaret E., Middletown
 Rummel, Wallace B., Lewistown
 Runkle, Harry M., Harrisburg
 Runkle, Mary G., Harrisburg
 Rupert, Gary D., Chambersburg
 Russ, John V., Harrisburg
 Sachs, Donald S., Petersburg
 Santeusano, Samuel J.,
 Highspire
 Sauter, Charles F.,
 Washington 2, D. C.
 Scaglione, Steve, Windber
 Schell, Virginia L., Lemoyne
 Schenck, Fred C., Greencastle
 Schneider, Ernest F., Carlisle
 Schubauer, Selma V.,
 Penbrook, Harrisburg
 Schultz, Dorothy J.,
 Warfordsburg
 Schwartz, Violet E., Gettysburg
 Scott, Emma R., Gettysburg
 Seilhamer, Richard L.,
 Chambersburg
 Sevel, Selma A., York
 Sgrignoli, Irene E.,
 Mechanicsburg
 Shade, Allison L., Clear Ridge
 Shade, Jacqueline L., Millerstown
 Shafer, Donald L., Fayetteville
 Shambaugh, Phyllis I., Carlisle
 Shaner, Michael E.,
 Shippensburg
 Shank, Evers A., Carlisle
 Shaull, Karl R., West Fairview
 Shaull, Robert K., West Fairview
 Shearer, Joan E., Spring Run
 Shearer, Ronald M., Lewistown
 Shenk, Paul J., Carlisle
 Sherbine, Marlin C., Portage
 Sherkel, Judith L., Camp Hill
 Sherman, Edgar J., Harrisburg
 Shewell, Richard D., Glen Rock
 Shipley, Armeda E., York Haven
 Shumaker, Robert M.,
 Harrisburg
 Shuman, Robert L.,
 Chambersburg
 Simcox, Nancy Ann,
 New Cumberland
 Simon, Carol W., Saxton
 Sinner, Carl I., York
 Sipe, Linus A., Dallastown
 Slaybaugh, Janice E., Mont Alto
 Sload, Joyce E., Harrisburg
 Small, Robert E., Chambersburg
 Smeigh, Susan S., Altoona
 Smith, Beverly A., Waynesboro
 Smith, Donald A., Waynesboro
 Smith, Dorothy J., Lambertton
 Smith, Genevieve A.,
 Shippensburg
 Smith, Glenn E., Boiling Springs
 Smith, Virginia E.,
 New Bloomfield
 Smith, Warren B., Jr.,
 West Fairview
 Smith, William R., Amaranth
 Snyder, Robert F., Altoona
 Spangler, Elizabeth Anne, York
 Spickler, Aldus, Harrisburg
 Spigelmyer, Wanda L.,
 Lewistown
 Spraglin, William E., Carlisle
 Stadulis, Robert T., Hershey
 Stahl, Dorothy M., Cito
 Stake, Pauline G., Shippensburg
 Stamp, Joan M., Upper Darby
 Statler, Janet C., Chambersburg
 Statler, Geraldine L., Greencastle
 Staub, Vera M., Mechanicsburg
 Steele, Mildred I., Harrisburg
 Steele, William T., Harrisburg
 Stenger, Melvin B., Jr.,
 Mercersburg
 Sterner, George L., York
 Stevens, Edward A., Harisburg
 Stewart, Billy L., Amberson
 Stewart, Gerald E., Spring Run
 Stillman, Ruth H., Chambersburg
 Stoken, Ed M., Aliquippa
 Stoner, Alwilda E., Mifflintown
 Stoner, Nancy A., Harrisburg
 Stouffer, Bertha E., Greencastle
 Stouffer, Thomas G.,
 Greencastle
 Strausner, Marjorie F.,
 Mount Alto
 Stuck, Kenneth O., Lewistown
 Stull, Lorren L., Waynesboro

- Stump, Shirley K., Hershey
Stumpff, Nancy H., Lewistown
Sunderland, Ray T.,
 Newton Hamilton
Sutton, Millicent L., Lemoyne
Swab, Paul R., Harrisburg
Swartley, Kenneth M.,
 Philadelphia
Swartz, Edwin E., Carlisle
Swartz, Elva E., Harrisburg
Swartz, Richard L., Mercersburg
Swoyer, Charlotte V., Birdsboro
Sykes, Jack M., Harrisburg
Taylor, Carol J., Huntingdon
Teitrick, Suzanne E., Carlisle
Tenny, William B.,
 West Fairview
Thompson, Gloria L.,
 East Waterford
Thomson, Jack R., York
Thrush, Jeanne E., Hanover
Thumma, Robert W., Carlisle
Tolbert, Rodney N.,
 Chambersburg
Toth, John F., Enhaut
Treese, Gerald E., Bellwood
Trueblood, Cecil R.,
 Holidaysburg
Truscott, Frederick W.,
 Shippensburg
Tursi, Mary Jo, Philadelphia
Ulrich, Hersheul R., Harrisburg
Utts, Paul L., Bellwood
Vandermark, Harold R.,
 Nanticoke
VanZandt, Robert G., Altoona
Vesco, Theresa J., Greensburg
Vignovich, Robert E., Aliquippa
Vink, Suzanne K., Waynesboro
Wagaman, Edith D., Mont Alto
Wagner, Jay G., Harrisburg
Wagner, Virginia A., Annville
Walker, George A.,
 Holidaysburg
Walker, Jean M., Ardmore
Walker, Lois S., Ardmore
Wallace, Donna M., York
Wallace, Dorothy A., Bellwood
Wallace, James W., Harrisburg
Wantz, Carolyn M., York
Ward, Myra F., Clearville
Warfel, Norman E., Millersburg
Warner, Emily S.,
 Blue Ridge Summit
Warthin, Freda M.,
 McConnellsburg
Wasson, John L., Tyrone
Weaver, Gladys A., Saxton
Webber, Dorothy L., Newville
Webber, Hazel I., Chambersburg
Weikert, Stanley M., Littlestown
Wenger, Jean E., Chambersburg
Wertz, Miriam P., Tyrone
Wherley, Richard H., York
Whitcomb, Robert K., Carlisle
Whitsel, Donald R., Lewistown
Whorl, Jacques R., York
Williams, Gracie M., Gettysburg
Wilson, Charles C., Nanty-Glo
Wilson, Joan L., Warriors Mark
Winemiller, Marion L., York
Winters, Darrell J., Dallastown
Wirt, Sally A., Camp Hill
Wise, Mary E., Millersburg
Wynkoop, Marilyn E., Narberth
Wyrick, William B.,
 Shippensburg
Yakoumis, Gertrude C., Pottsville
Yeager, Frank E., Holidaysburg
Yeakel, Mary H., Pottsville
Yhlen, George J., Shippensburg
Yoder, Betsy Lou, Belleville
Yoskowitz, Selma,
 Asbury Park, N. J.
Youtz, Shirley Ann, Lancaster
Zeiders, Barbara Hess,
 Harrisburg
Ziegler, Frederick D.,
 Greencastle
Zentmyer, Jack C., Harrisburg
Zimmerman, Donald E.,
 Shiremanstown
Zimmerman, Dorothy L.,
 Harrisburg
Zimmerman, Ernest R.,
 Shippensburg
Zimmerman, Roberta L.,
 Lemasters
Zook, Janet L., Kane

TENTATIVE CLASS OF 1952

Allen, Phoebe J.
 Allison, Roy W.
 Appel, Elden R.
 Arcuri, Frank J.
 Baker, M. Jacqueline
 Barger, Carl F.
 Barr, William H.
 Bates, Blanche
 Bearer, James F.
 Bigelow, Marilyn J. B.
 Bishop, Jacqueline Messinger
 Bitner, Gary F.
 Bock, A. Roberta
 Bock, Bernice M.
 Boden, Suzanne
 Bowser, Dean
 Boyer, Floyd D.
 Braim, Joseph
 Brown, Bernard J.
 Brown, Daniel J.
 Burger, John R.
 Compolong, Eugene T.
 Cannon, Edmund J.
 Cutshall, E. Pauline
 Dapp, Kenneth E.
 Daugherty, Louella
 DeShong, Sylvia J.
 Epley, Elaine M.
 Esh, Mary Jane
 Etter, Joanne M.
 Feiser, Queenie M.
 Ferguson, Vernon W.
 Fickel, James E.
 Fink, Kenneth L.
 Fogelsanger, John W.
 Foster, Patricia L.
 Foster, Robert G.
 Galbraith, Walter R.
 Garson, Joan V.
 Gerlock, Edward J.
 Geyer, Phyllis B.
 Goodhart, Carolyn
 Grove, Jane H.
 Gural, Michael
 Harner, George E.
 Heckler, James R.
 Hefflbower, Betty L.
 Heiges, Fred C.
 Heistand, Roy E.
 Henry, Doris J.
 Henry, Samuel F.
 Hepner, James J.
 Hildebrand, Wilbur J.
 Hollenshead, John A.
 Horst, Lloyd H.
 Hunsberger, William A.
 Hyatt, Phyllis J.
 Iwanczyk, Angelus L.
 Jacoby, Carl L.
 Keefer, Anita M.
 Keller, John E.
 Keller, Lois Hull
 Kennedy, Arletta J.
 Kercheval, Edward C.
 Kirk, Robert C.
 Knapp, Richard
 Knohr, Ralph J.
 Kolva, LeRoy C.
 Kopec, Richard J.
 Kurlansik, Leon
 Kyle, Nancy Dunkelberger
 Laird, Roderick M.
 Lane, Weldon C.
 Leitch, John J.
 Lightner, C. Robert
 McCloskey, Joseph F.
 McLaughlin, Elizabeth L.
 MacFarlane, Albert R.
 Maclay, William R.
 Malone, Margaret L.
 Mencer, Glade V.
 Meredith, Berk B., Jr.
 Minnick, Patricia Fahrney
 Minnick, William R.
 Myers, Henry D.
 Nell, Richard F.
 Novinger, Joyce A.
 Oates, James G.
 Oliver, Lois S.
 Oyer, E. Jane
 Papoutsis, James N.
 Redfern, William J.
 Reed, Mary C.
 Reed, Paul R.
 Reifer, James T.
 Richwine, Harold J.
 Richwine, Keith, N.
 Romano, Peter
 Romano, Salvador A.
 Rosenberry, Jane A.
 Rotz, Edward D.
 Rudy, Margaret E.
 Runkle, Harry M.
 Russ, John V.
 Sachs, Donald S.
 Schultz, Dorothy A.
 Sevel, Selma A.
 Shade, Allison L.
 Shade, Jacqueline L.
 Shaner, Michael E.
 Shank, Evers A.
 Shaull, K. Richard

Shaul, Robert K.
Sherbine, Carl
Shipley, Armeta E.
Shumaker, Robert M.
Simon, Carl W.
Smith, Warren D., Jr.
Smith, William R.
Snyder, Robert F.
Stahl, Dorothy M.
Stouffer, Bertha E.
Stump, Shirley K.
Vandermark, Harold R.
VanZandt, Robert G.

Vignovich, Robert W.
Wagaman, Edith
Wagner, Jay G.
Walker, George A.
Wantz, Carolyn M.
Warfel, Norman E.
Warthin, Freda M.
Wilson, Charles C.
Wyrick, William B.
Yhlen, George J. Jr.
Youtz, Shirley A.
Zook, Janet L.

GRADUATES OF 1951

Name	Address	County and State
Arcuri, Rose M.	29 South Penn St., York	York, Pa.
Arnold, Gene E.	R. D. 1, Centre Hall	Centre, Pa.
Asper, Janet M.	R. D. 2, Biglerville	Adams, Pa.
Aument, George	123 Meehan St., Philadelphia	Philadelphia, Pa.
Baker, Lucille S.	1861 North George St., York	York, Pa.
Baker, Yvonne M.	R. D. 1, Windsor	York, Pa.
Barlup, Louis M., Jr.	421 South Potomac St., Waynesboro	Franklin, Pa.
Beichler, Glenn P.	1202 Blvd., Juniata, Altoona	Blair, Pa.
Beidel, Robert R.	122 East Garfield St., Shippensburg	Cumberland, Pa.
Benedetto, John E.	601 Fourth Ave., Juniata, Altoona	Blair, Pa.
Bernstine, Janet B.	20 Bryn Mawr Ave., Bala-Cynwyd	Montgomery, Pa.
Bishop, Gail M.	R. R. 3, Chambersburg	Franklin, Pa.
Bishop, Harold C.	242 East King St., Shippensburg	Cumberland, Pa.
Blocksom, Joseph E.	295 Coolidge Ave., Carney's Point	N. J.
Bobb, Frances E.	82 East Ridge St., Carlisle	Cumberland, Pa.
Bolger, Patricia A.	510 Bellview St., Altoona	Blair, Pa.
Bollinger, Frank L.	R. D. 2, Chambersburg	Franklin, Pa.
Book, Aaron R.	521 West Main St., Mechanicsburg	Cumberland, Pa.
Book, Carl E.	R. D. 3, Shippensburg	Cumberland, Pa.
Burgess, Robert D.	R. D. 1, Monaca	Beaver, Pa.
Burnshire, Wilma H.	R. D. 1, Tyrone	Blair, Pa.
Cale, William E.	635 Muench St., Harrisburg	Dauphin, Pa.
Campitell, Joseph L.	613—22nd St., Windber	Somerset, Pa.
Carr, Raymond D.	Thurmont	Maryland
Charlton, Reba L.	Warfordsburg	Fulton, Pa.
Chubb, Robert S.	125 East Emaus Street, Middletown	Dauphin, Pa.
Cialone, Robert A.	8 Lincoln St.,	Huntingdon, Pa.
Cockley, Jean E.	926 Wilson Ave., Chambersburg	Franklin, Pa.
Counsman, Ruthann L.	1813—17th Ave., Altoona	Blair, Pa.
Demmy, Eva Easterbrook	40 South Charlotte St., Manheim	Lancaster, Pa.
DiMuzio, Charlotte M.	36 East Crescent Road, Greenbelt	Maryland
DiMuzio, Anthony	36 East Crescent Road, Greenbelt	Maryland
Doarnberger, Lewis E.	139 North Cannon Ave., Hagerstown	Maryland
Dobey, Margaret L.	Robertsdale	Huntingdon, Pa.
Drumm, Joanne E.	Broadway Road, Milton	Northumberland, Pa.
Duerr, David W.	800 West High St., Carlisle	Cumberland, Pa.
Duncan, Abraham L.	82 Shope St., Oberlin	Dauphin, Pa.
Edwards, Frank G.	330 Columbia Ave., Lansdale	Montgomery, Pa.

Name	Address	County and State
Eisenhour, Ellen L.	1234 West Main St., Palmyra	Lebanon, Pa.
Emanuel, John E.	3015 North Sixth St., Harrisburg	Dauphin, Pa.
Etter, Verling L.	10 Java Avenue, Hershey	Dauphin, Pa.
Farner, Galen L.	32 South Queen St., Shippensburg	Cumberland, Pa.
Fisher, John R.	Box 5, Hampton	Adams, Pa.
Forbes, Samuel H.	565 W. Philadelphia St.,	York York, Pa.
Fordney, Shirley C.	141 North Enola Drive, Enola	Cumberland, Pa.
Fore, John R.	McConnellsburg	Fulton, Pa.
Fortna, Dwight L.	R. D. 3, Shippensburg	Cumberland, Pa.
Gaddis, Allen R.	47 South Second St., Chambersburg	Franklin, Pa.
Garman, Lawrence M.	3105 North Sixth St., Harrisburg	Dauphin, Pa.
Garner, Ruth S.	137 East Marshall Ave., Langhorne	Bucks, Pa.
Garrison, Lawrence R.	211 Maple Ave., Hershey	Dauphin, Pa.
George, Donald M.	354 West Broad St., Williamstown	Dauphin, Pa.
Getz, Quentin E.	112 West Green St., Mechanicsburg	Cumberland, Pa.
Giacobello, James P.	19 East Garber St., Mount Union	Huntingdon, Pa.
Giardine, Romeo R.	Route 1, Box 17, Waynesboro	Franklin, Pa.
Gilliland, William L.	Warriors Mark	Huntingdon, Pa.
Gingrich, Wayne D.	R. D. 2, Mifflintown	Juniata, Pa.
Gleim, Alfred C. B.	R. D. 3, Shippensburg	Cumberland, Pa.
Haar, Norman D.	Abbottstown	Adams, Pa.
Hafer, F. Joyce	237 North St., Harrisburg	Dauphin, Pa.
Hamill, Thomas S.	1043 West Pacific St., Philadelphia	Philadelphia, Pa.
Hartmann, Constance M.	122 West Pennsylvania Ave., Mount Union	Huntingdon, Pa.
Hartsock, Patricia L.	462 South Main St., Lewistown	Mifflin, Pa.
Hays, Robert H.	1 Irvine St., Carlisle	Cumberland, Pa.
Hull, Donald F., Jr.	11 West Burd St., Shippensburg	Cumberland, Pa.
Hykes, Robert M., Jr.	218 West King St., Shippensburg	Cumberland, Pa.
Jacoby, C. Robert	237 West King St., Shippensburg	Cumberland, Pa.
James, Shellen Terrell	409 Lebanon St., Steelton	Dauphin, Pa.
Keefer, John H.	R. D. 5, Gettysburg	Adams, Pa.
Kerr, Helen I.	603 North West St., Carlisle	Cumberland, Pa.
Kirkpatrick, Joanne E.	Scotland	Franklin, Pa.
Kohr, Lee H.	Newburg	Cumberland, Pa.
Kolva, Patricia Straub	773 State St., Millersburg	Dauphin, Pa.
Kosutic, Peter F.	926 High St., Bressler	Dauphin, Pa.
Kyle, Vance H.	144 East Washington, Chambersburg	Franklin, Pa.
Kratzer, Thelma F.	14 Woods Lane, Lewistown	Mifflin, Pa.

Name	Address	County and State
Lackhove, Harry F.	Shawnee Road, Milford	Delaware
Lee, John C.	1229 Mahantongo St., Pottsville	Schuylkill, Pa.
Leiphart, Glenn H.	Route 1, Hellam	York, Pa.
Leisinger, Robert E.	101 East North St., Waynesboro	Franklin, Pa.
Lingg, Naomi Faber	172 West High St., Carlisle	Cumberland, Pa.
Long, Richard E.	205 North Grand St., Lewistown	Mifflin, Pa.
Luker, Harry G.	611 North Front St., Harrisburg	Dauphin, Pa.
Lynerd, Robert D.	10 North Penn St., Hanover	Adams, Pa.
McCall, Harriet E.	338 W. Fifth St., Lewistown	Mifflin, Pa.
McClain, Thyra H.	Orbisonia	Huntingdon, Pa.
McCloskey, James W.	622 East Market St., Pottsville	Schuylkill, Pa.
McCreery, L. Carol	Dry Run	Franklin, Pa.
McCurdy, Martha Lower	532—53rd Street, Altoona	Blair, Pa.
McGehee, Edwinna A.	1111 Scotland Ave., Chambersburg	Franklin, Pa.
McLaughlin, Gail C.	Fort Loudon	Franklin, Pa.
McNie, James S.	601 Highland St., Aliquippa	Beaver, Pa.
Magill, James A.	122 South Madison St., Harrisburg	Dauphin, Pa.
March, Rita Novinger	207 Oak St., Harrisburg	Dauphin, Pa.
Martin, Madge	34 South West St., Carlisle	Cumberland, Pa.
Martin, Martha E.	R. D. 4, Gettysburg	Adams, Pa.
Matthews, Donald M.	605 South Market St., Mechanicsburg	Cumberland, Pa.
Miller, Arthur T.	263 Elm St., Westville	New Jersey
Miller, Audrey Arnold	1505 East Philadelphia St., York	York, Pa.
Modla, Elmer J.	1444 Virginia Ave., Havertown	Delaware, Pa.
Morter, Ethel G.	Route 3, Waynesboro	Franklin, Pa.
Mowery, Charles U.	342 West North St., Carlisle	Cumberland, Pa.
Mowery, Chester A.	24 North Morris St., Shippensburg	Cumberland, Pa.
Muncert, Fritz C.	515 State St., Johnstown	Cambria, Pa.
Murray, Janice G.	Doylesburg	Franklin, Pa.
Nell, Helen Dahr	243 East King St., Shippensburg	Cumberland, Pa.
Newman, Lawrence L.	R. R. 1, Fayetteville	Franklin, Pa.
Over, Joseph D.	Woodbury	Bedford, Pa.
Oyler, Doris P.	414 York St., Gettysburg	Adams, Pa.
Peck, Mary E.	McConnellsburg	Fulton, Pa.
Peffer, Lena G.	528 South Hanover St., Carlisle	Cumberland, Pa.
Peters, Joan G.	127 West Broadway, Red Lion	York, Pa.
Picking, Ethel Coble	439 East Liberty, Chambersburg	Franklin, Pa.
Picking, Evelyn E.	R. D. 6, Chambersburg	Franklin, Pa.
Pine, Robert C.	305 Walton Ave., Altoona	Blair, Pa.

Name	Address	County and State
Plack, Edith Bache	600 York Ave., Lansdale	Montgomery, Pa.
Plack, Ralph B.	600 York Ave., Lansdale	Montgomery, Pa.
Potoczny, Joseph	1113 Sheffield Ave., Aliquippa	Beaver, Pa.
Powell, Harry W.	R. D. 2, Stoystown	Somerset, Pa.
Price, Fred C.	Arendtsville	Adams, Pa.
Printz, Dorothy S.	114 Edgewater Ave., Lewistown	Mifflin, Pa.
Pursel, Barbara L.	210 Fifth Ave., Burnham	Mifflin, Pa.
Putt, Martha M.	Saxton	Bedford, Pa.
Ranck, Mary L.	Leola	Lancaster, Pa.
Reaser, Greta Klingman	326 Market St., Mifflinburg	Union, Pa.
Rebert, John A.	Harney Road, Littlestown	Adams, Pa.
Reed, E. Jean	3619 Sixth Ave., Altoona	Blair, Pa.
Richter, Hermine A.	237 North St., Millersburg	Dauphin, Pa.
Ritter, Joseph F.	Greason	Cumberland, Pa.
Roksandic, Samuel	727 S. Fourth St., Steelton	Dauphin, Pa.
Rothstein, Marvin L.	1859 N. Seventh St., Philadelphia	Philadelphia, Pa.
Rottler, Emil K.	139 West Jackson St., York	York, Pa.
Rupley, John A.	3211 Sixth St., Harrisburg	Dauphin, Pa.
Sauers, Louis F.	807 Prospect Ave., North Wales	Montgomery, Pa.
Schneider, Erna M.	357 W. North St., Carlisle	Cumberland, Pa.
Schroyer, Marian Wilson	R. D. 1, Newport	Perry, Pa.
Shadle, William E.	Pottsville St., Wiconisco	Dauphin, Pa.
Shaffer, Freeland E.	223 Carlisle St., Hanover	Adams, Pa.
Smith, Dorothy I.	Blain	Perry, Pa.
Snoke, Dorothy J.	Route 2, Chambersburg	Franklin, Pa.
Snook, Darel R.	435 Freedom Ave., Burnham	Mifflin, Pa.
Solenberger, George L.	334 No. Fourth St., Newport	Perry, Pa.
Solenberger, Mary K.	334 No. Fourth St., Newport	Perry, Pa.
Sowers, Floyd R.	3 North Morris St., Shippensburg	Cumberland, Pa.
Specht, Barbara J.	507 Union St., Millersburg	Dauphin, Pa.
Spotts, Glenna M.	Shermans Dale	Perry, Pa.
Staudt, Arletta I.	3951 Jonestown Road, Harrisburg	Dauphin, Pa.
Stauffer, Richard C.	1414 Second St., Altoona	Blair, Pa.
Stimmell, James R.	R. D. 1, Box 716, Altoona	Blair, Pa.,
Stitzer, Marius M.	2479 Forrest St., Easton	Northampton, Pa.
Strayer, William A.	Fayetteville	Franklin, Pa.
Stroup, Marjorie J.	Mercersburg	Franklin, Pa.
Stumbaugh, John L.	331 East Washington St., Chambersburg	Franklin, Pa.
Sweitzer, Charlene D.	813 Prospect St., York	York, Pa.
Swigert, Theodore R.	1908 North St., Harrisburg	Dauphin, Pa.
Swope, William F.	Needmore	Fulton, Pa.
Tenney, Shirley Y.	302 Fourth St., West Fairview	Cumberland, Pa.
Toggas, Kathryn	232 South Pine St., York	York, Pa.
Trostle, Richard E.	311 Baltimore Ave., Mount Holly Springs	Cumberland, Pa.

Name	Address	County and State
Utts, Sylvia Sanville	Westtown	Chester, Pa.
Vasick, Leo S.	229 Church St., Bridgeport	Montgomery, Pa.
Vaughn, Barbara J.	1601 Briggs St., Harrisburg	Dauphin, Pa.
Vinski, John A.	86 Hickory St., Etna	Allegheny, Pa.
Wentz, Jane	McVeytown	Mifflin, Pa.
Wenschhof, Betty J.	R. D. 2, Gettysburg	Adams, Pa.
Wagner, Joseph	21 Park Ave., Westminster	Maryland
White, Anna J.	East Waterford	Juniata, Pa.
White, Craig	27 Spanogle Ave., Lewistown	Mifflin, Pa.
Whitekettle, Pauline M.	253 No. Fourth St., Newport	Perry, Pa.
Williams, Edithmae	71 East North St., Carlisle	Cumberland, Pa.
Williams, Marguerite	71 East North St., Carlisle	Cumberland, Pa.
Witmer, Ned M.	309 Stock St., Hanover	Adams, Pa.
Stefka, Helen Reid	R. D. 1, Paulsboro	New Jersey
Yhlen, Barbara Bradley	120 Fleming Avenue, Lewistown	Mifflin, Pa.
Yinger, Clifford L.	Star Route, Carlisle	Cumberland, Pa.
Zadai, Robert J.	Beech St., Ebensburg	Cambria, Pa.
Zataveski, Leonard W.	1240 Broadway St., Hanover	Adams, Pa.
Zolnerowich, John	40 East Street, South River	New Jersey

ENROLLMENT

College	
Graduate Students	4
Class of 1952	136
Class of 1953	173
Class of 1954	171
Class of 1955	184
Class of 1956	10
Part Time Students	22
Pre Summer Session 1951	194
Six Weeks Summer Session 1951	268
Post Summer Session 1951	148
Extension Summer Session 1951	22
Extension	21
TOTAL	1353

SHIPPENSBURG ADVANTAGES

Located in the Beautiful Cumberland Valley

Reached Easily by Car, Bus, or Railroad

Beautifully Landscaped Campus

Sunlighted Swimming Pool

Two Athletic Fields

Ten All-weather Tennis Courts

Extensive Extra-Curricula Program

Student Activity Building

New Gymnasium

New Laboratory School Building

New Science Building

New and Up-to-date Science Laboratories

Modern Business Machines

Competent Faculty

Fully accredited by
regional and national accrediting agencies

An outstanding Library

Friendly Spirit

**SOME LYCEUM ARTISTS WHO HAVE APPEARED
AT THE COLLEGE DURING RECENT YEARS**

Carl Sandburg, Poet and Lecturer

The Trappe Family Singers

Margaret Webster Players in 'The Taming of the Shrew

Mario Lanza, Tenor

Eleanor Knapp and Lloyd Harris, Operatic Duets

Margaret Daum, Soprano

Ruth St. Denis Dancers

Chales O'Connel, Author, Conductor, Lecturer

The Ted Shawn Dancers

Evelyn MacGregor, Contralto

The National Symphony Orchestra

The Westminster Choir

Mario Braggiotto, Pianist

The Boston Symphonette

The Men of Song, Male Quartet

Louis Untermeyer, Poet and Lecturer

The Clair Tree Major Players

Sidney Harth, Violinist

Wilbur Evans, Bartone

The Hedgerow Players

Louise Bannerman, Harpist

The Vienna Choir

Ruth Daye, Xylophonist

Morley and Gearhart, Duo Pianists

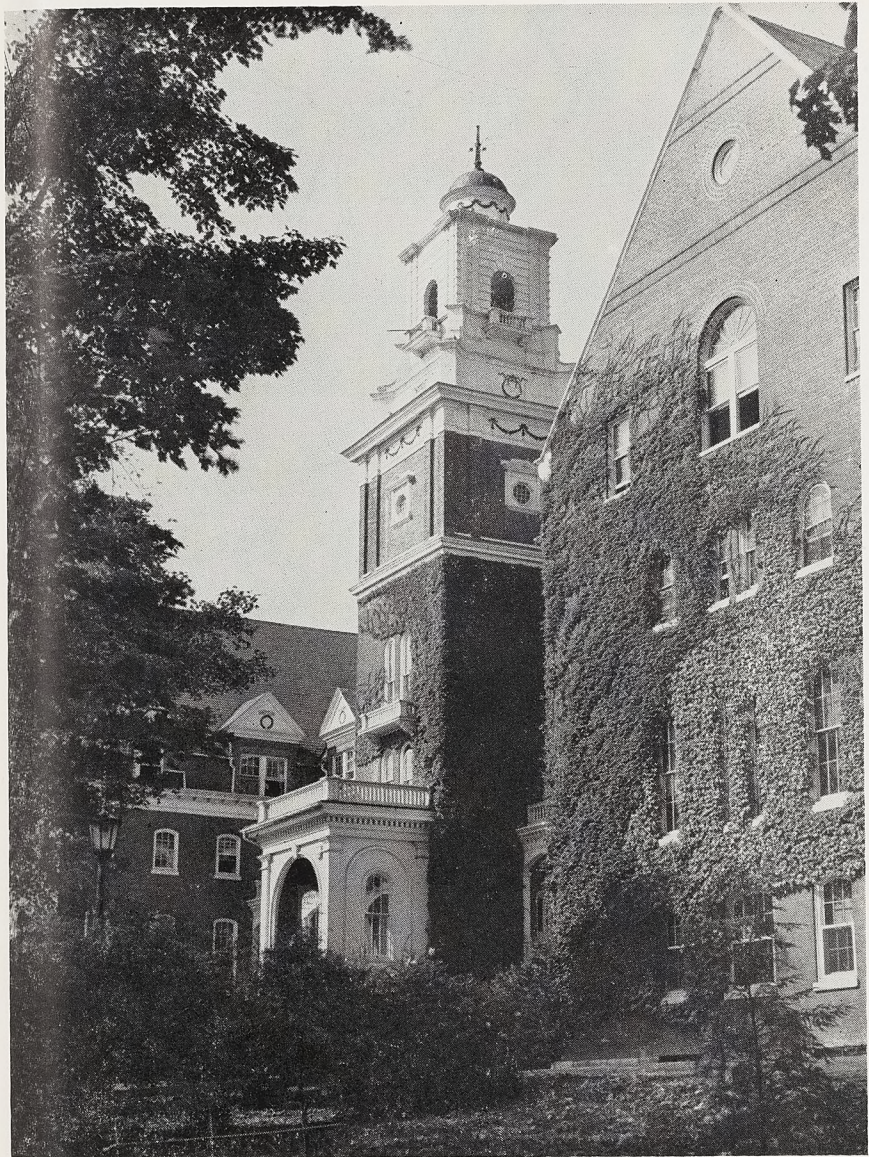
The Revelers, Male Quartet

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