

BULLETIN

LYCOMING COLLEGE

WILLIAMSPORT, PENNA.



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LYCOMING COLLEGE

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Martha B. Clarke Memorial Building →
Rich Hall at Left



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OFFICIAL
BULLETIN

LYCOMING COLLEGE

(Formerly WILLIAMSPORT-DICKINSON)

WILLIAMSPORT, PENNSYLVANIA

Register For 1953-1954

ANNOUNCEMENTS OF COURSES

1954-1955



Approved to Grant Baccalaureate Degrees
by the Pennsylvania State Department of Public Instruction

Accredited

by

The Middle States Association of Colleges and Secondary
Schools

The University Senate of the Methodist Church

The National Commission on Accrediting

Member

of

Pennsylvania Association of Colleges and Universities

National Association of Schools and Colleges

of the Methodist Church

Association of American Colleges

CALENDAR

1953-1954 — SECOND SEMESTER

February 1, Monday—Registration
February 2, Tuesday—Classes Begin
April 9, Friday After Classes—Easter Recess Begins
April 19, Monday—Easter Recess Ends
April 20, Tuesday—Classes Resume
June 4, Friday—Final Examination Period Ends
June 6, Sunday—Commencement

1954 — Summer Sessions

FIRST SESSION

June 18, Friday—Registration and Class Organization
July 3-5, Saturday and Monday—Fourth of July Recess
July 6, Tuesday—Classes Resume
July 24, Saturday—Session Ends

SECOND SESSION

July 26, Monday—Registration and Class Organization
August 28, Saturday—Session Ends

1954-1955 — FIRST SEMESTER

September 14, Tuesday—Freshmen Orientation Begins
September 16, Thursday—Registration of Freshmen and Other New Students
September 17-18—Friday at 9 a. m. until Saturday noon—Registration of Upper Classmen
September 19, Sunday—Matriculation Service
September 20, Monday—Classes Begin
November 24-28, Wednesday noon until Sunday—Thanksgiving Recess
November 29, Monday—Classes Resume
December 18, Saturday—Christmas Recess Begins
January 2, Sunday—Christmas Recess Ends
January 3, Monday—Classes Resume
January 29, Saturday—First Semester Ends

1954-1955 — SECOND SEMESTER

January 31, Monday—Registration
February 1, Tuesday—Classes Begin
April 2, Saturday—Easter Recess Begins
April 11, Monday—Easter Recess Ends
April 12, Tuesday—Classes Resume
June 3, Friday—Final Examination Period Ends
June 5, Sunday—Commencement

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MR. RALPH E. KELCHNER	Jersey Shore
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TERM EXPIRES 1956

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MR. ERNEST M. CASE	Williamsport
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JUDGE DON M. LARRABEE, LL.D.	Williamsport
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MRS. H. MARSHALL STECKER	Mt. Carmel
MR. GEORGE W. SYKES	Cranberry Lake, N. Y.
REV. W. GALLOWAY TYSON, D.D.	Drexel Hill
REV. D. FRED WERTZ	Williamsport

COMMITTEES OF THE BOARD OF DIRECTORS

The President of the Board of Directors and the President of the College are ex-officio members of all standing committees.

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MR. PAUL G. GILMORE
JUDGE DON M. LARRABEE, LL.D.
REV. ELVIN CLAY MYERS, D.D.
MR. ARNOLD A. PHIPPS
HON. ROBERT F. RICH
MR. GEORGE L. STEARNS, II
REV. W. EDWARD WATKINS, D.D.

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MR. JOHN H. McCORMICK
MR. ARNOLD A. PHIPPS
MR. CARL F. STROEHMANN

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REV. W. EDWARD WATKINS, D.D.
MR. GEORGE W. SYKES

ATHLETIC COMMITTEE

REV. W. W. BANKS *Chairman*
REV. ELVIN CLAY MYERS, D.D. *Secretary*
MR. CHARLES V. ADAMS
MR. FRANK DUNHAM
JUDGE DON M. LARRABEE, LL.D.

ADMINISTRATION OFFICERS

- JOHN W. LONG, A.B., D.D., LL.D. *President*
- LAWRENCE W. LYKENS, B.S., S.T.B. *Assistant to the President*
- WILLIAM S. HOFFMAN, B.S., M.S. *Dean*
- G. HEIL GRAMLEY, B.S., M.A. *Dean of Men*
Director of Admissions and Registrar
- HELEN M. FELIX, B.S. *Dean of Women*
- KENNETH E. HIMES, B.S., G.S.B., *Treasurer and Business Manager*
- J. MILTON SKEATH, A.B., M.A., PH.D. *Director of Guidance*
- NOREEN C. BLUM, A.B., B.S. in L.S. *Librarian*
- ROBERT F. SMITH, B.S., M.Ed. *Director of Athletics*

FACULTY

JOHN W. LONG, President (1921)

A.B., D.D., Dickinson College; LL.D., Western Maryland; Drew
Theological Seminary.

WILLIAM S. HOFFMAN, Dean (1949)

B.S., M.S., The Pennsylvania State University.

G. HEIL GRAMLEY

Dean of Men, Director of Admissions, Registrar (1950)

B.S., Albright College; M.A., Bucknell University.

HELEN M. FELIX, Dean of Women (1948)

B.S., East Stroudsburg State Teachers College.

KENNETH E. HIMES, Treasurer (1948)

B.S., Drexel Institute of Technology; G.S.B., Rutgers University.

LORING BENSON PRIEST, Divisional Director, Social Science (1949)
Professor of History
Litt.B., Rutgers University; M.A., Ph.D., Harvard University.

ERIC V. SANDIN, Divisional Director, Humanities (1946)
Professor of English
B.S., Wesleyan University; M.A., Columbia University; Ph.D., University of Illinois.

GEORGE S. SHORTESS, Divisional Director, Science (1948)
Professor of Biology
A.B., Johns Hopkins University; M.A., Columbia University; Ph.D., Johns Hopkins University.

J. MILTON SKEATH (1921) *Professor of Psychology*
A.B., Dickinson College; M.A., University of Pennsylvania; Ph.D., The Pennsylvania State University.

JOSEPH D. BABCOCK (1931) *Associate Professor of Physics*
A.B., Dickinson College; M.A., Bucknell University.

MABEL K. BAUER (1942) *Associate Professor of Chemistry*
B.S., Cornell University; M.S., University of Pennsylvania.

ROBERT H. EWING (1947) *Associate Professor of History*
A.B., College of Wooster; M.A., University of Michigan.

PHIL G. GILLETTE (1929)
Associate Professor of German and Spanish
A.B., Ohio University; M.A., Columbia University.

JOHN P. GRAHAM (1939) *Associate Professor of English*
Ph.B., Dickinson College; M.Ed., The Pennsylvania State University.

GEORGE W. HOWE (1949) *Associate Professor of Biology*
A.B., M.S., Syracuse University; Ph.D., Cornell University.

CLAUDE C. KIPLINGER (1949) *Associate Professor of Chemistry*
A.B., Western Reserve University; M.S., Ohio State University.

WALTER G. McIVER (1946) *Associate Professor of Voice*
Mus.B., Westminster Choir College; A.B., Bucknell University.

ROBERT F. SMITH, Director of Athletics, Basketball Coach (1946)
Associate Professor of Education
B.S., Lock Haven State Teachers College; M.Ed., The Pennsylvania
State University.

JAMES W. STERLING (1924) *Associate Professor of English*
A.B., M.A., Syracuse University.

ARMAND J. L. VAN BAELEN (1947)
Associate Professor of Mathematics
College Communal, Tirlemont, Belgium; B.S., Agric College, Gembloux,
Belgium; M.S., Rutgers University.

HELEN BREESE WEIDMAN (1944)
Associate Professor of Political Science
A.B., M.A., Bucknell University; Ph.D., Syracuse University.

NOREEN CHALICE BLUM, Librarian (1949)
Librarian with Rank of Assistant Professor
A.B., Cornell College; B.S. in L.S., Illinois University.

ROGER EARLE COGSWELL (1946) *Assistant Professor of French*
A.B., Sorbonne University, Paris, France; M.A., The Pennsylvania
State University.

W. ARTHUR FAUS (1951) *Assistant Professor of Philosophy*
A.B., Dickinson College; S.T.B., Ph.D., Boston University.

SAMUEL GOOD (1949) *Assistant Professor of Economics*
B.S., Emory University; M.S., University of Pennsylvania.

RUSSEL GRAVES (1953) *Assistant Professor of Speech*
B.F.A., M.F.A., Carnegie Institute of Technology; Ph.D., Florida State
University.

- JOHN G. HOLLENBACK (1952)
Assistant Professor of Business Administration
 B.S., M.B.A., University of Pennsylvania.
- FRANCES E. KNIGHTS (1947) *Assistant Professor of Mathematics*
 A.B., M.A., Bucknell University.
- MARY JANE MARLEY (1946)
Assistant Professor of Secretarial Studies
 B.S., M.S., Bucknell University.
- DONALD GEORGE REMLEY (1946)
Assistant Professor of Mathematics, Physics
 A.B., Dickinson College; M.A., Columbia University.
- MARY LANDON RUSSELL (1936)
Assistant Professor of Organ, Piano
 Mus.B., Susquehanna University Conservatory of Music.
- HENRY H. SHISSLER, Director of Town and Country Work (1950)
Assistant Professor of Sociology
 B.S., Millersville State Teachers College; S.T.B., Westminster Theological Seminary; M.Ed., The Pennsylvania State University.
- JOHN A. STREETER, Divisional Director, Business Administration
 (1946) *Assistant Professor of Economics*
 A.B., M.A., The Pennsylvania State University.
- MERTON J. STRONG, JR. (1952) *Assistant Professor of Sociology*
 B.Ed., Plattsburg State Teachers College (N. Y.); M.S., Syracuse University.
- CLAIR J. SWITZER (1945) *Assistant Professor of Religion*
 A.B., Juniata College; M.A., Bucknell University; B.D., Susquehanna University Theological Seminary.
-
- GEORGE LEE BAER (1947) *Instructor in Physical Education*
 B.S., University of Delaware; M.Ed., Bucknell University.

- LULU BRUNSTETTER (1925)
Assistant Librarian with Rank of Instructor
 Bloomsburg State Normal.
- JOHN W. CHANDLER (1952) *Instructor in Art*
 A.B., St. Anselem's College; M.Ed., Boston University.
- HAZEL B. DOREY (1943) *Instructor in Piano*
 Honor graduate, Philadelphia Music Academy; graduate work, Columbia University.
- G. VIRGINIA HERLT (1953)
Cataloging Librarian With Rank of Instructor
 A.B., Lycoming College; M.S. in L.S., Drexel Institute of Technology.
- MARJORIE S. PETERSON (1952)
Reference Librarian with Rank of Instructor
 A.B., Lycoming College; M.S. in L.S., Drexel Institute of Technology.
- LEO G. PHILLIPS (1953) *Instructor in Accounting*
 B.B.A., City College of New York; C.P.A., Pennsylvania.
- JAMES W. SHEAFFER (1949) *Instructor in Music*
 B.S., Indiana State Teachers College; M.S., University of Pennsylvania.
- DORIS COOMBS TENO (1950) *Instructor in Secretarial Science*
 B.S., Bucknell University; M.Ed., The Pennsylvania State University.
- SALLY F. VARGO (1953) *Instructor in Physical Education*
 B.S., The Pennsylvania State University.
- FLORENCE M. WILLIAMS (1953) *Instructor in Psychology*
 A.B., Dickinson College; M.A., Temple University.

PART TIME INSTRUCTORS

- CARL S. BAUER (1946) *Engineering Drawing*
B.S., M.Ed., The Pennsylvania State University.
- MERL G. COLVIN (1951) *Pathologist*
B.S., Bucknell University; M.D., University of Pennsylvania; Fellow
of American College of Physicians; Fellow of College of American
Pathologists.
- G. HEIL GRAMLEY (1950) *Audio-Visual Education*
B.S., Albright College; M.A., Bucknell University.
- GEORGE M. HOFFNAGLE (1952), Assistant Basketball Coach and
Statistician
B.S., Lock Haven State Teachers College; M.S., Bucknell University.
- DON L. LARRABEE, Attorney at Law (1945) *Business Law*
A.B., Allegheny College; Wharton Graduate School of the University of
Pennsylvania and Law School of the University of Pennsylvania.
- MARY E. MEYERS (1950) *Anatomy and Physiology*
B.S., Bucknell University; R.N., Kings County Hospital, School of
Nursing, Brooklyn, N. Y.
- FRED C. STINER (1952) *Greek*
A.B., Bucknell University; B.D., Reformed Episcopal Seminary; S.T.B.,
Westminster Theological Seminary.

ADMINISTRATIVE ASSISTANTS

BESSIE L. WHITE	<i>Recorder</i>
CLARA E. FRITSCHÉ	<i>Accountant</i>
CHARLES W. POTTER, A.B., M.A.	<i>Assistant to the Registrar</i>
DONALD G. REMLEY, A.B., M.A.	<i>Placement Bureau Director</i>
JEAN DAVIES VAN BAELEN, A.B.	<i>Publicity Director</i>
LULU BRUNSTETTER	<i>Assistant Librarian</i>
G. VIRGINIA HERLT, A.B., M.S. in L.S.	<i>Cataloging Librarian</i>
MARJORIE S. PETERSON, A.B., M.S. in L.S.	<i>Reference Librarian</i>
NELLIE F. GORGAS	<i>Secretary to the President</i>
LOUISE MORTIMER	<i>Secretary to the Dean</i>
JUNE RUFFHEAD	<i>Secretary to the Director of Admissions</i>
EMILY C. BICHLE	<i>Secretary to the Business Manager</i>
LOIS FETTERMAN, B.S.	<i>Secretary to the Assistant to the President</i>
EVELYN M. BAUSINGER	<i>Secretary to the Librarian</i>
DOROTHY J. STREETER	<i>Bookstore Manager</i>
FREDERICK C. LECHNER, M.D.	<i>College Physician</i>
DORIS H. COTNER, R.N.	<i>College Nurse</i>

GENERAL INFORMATION

THE COLLEGE

Lycoming College is a liberal arts institution. It is co-educational and provides facilities for both day and boarding students. The four year program offers courses of study leading to Bachelor of Arts and Bachelor of Science degrees. In addition, certain two-year terminal programs are available.

LOCATION

The college is located near the center of the city of Williamsport, Pennsylvania, on a slight eminence, which causes the institution to be affectionately referred to as "The College upon the Hilltop." Its stately elms, maples, and numerous shrubs form an attractive setting for the college buildings.

Williamsport itself is known as "The Queen City of the West Branch of the Susquehanna River," and is on the famed Susquehanna Trail, midway between Buffalo, New York, and Washington, D. C. It is famed for its picturesque scenery, its beautiful homes, and the culture and kindness of its people. The Pennsylvania railroad, with its fast trains, and the Lakes-to-Sea and the Greyhound busses put it within two hours of Harrisburg, four and a half hours of Philadelphia, and six hours of Pittsburgh and New York. Capital, TWA, and Allegheny Airlines place the time at forty minutes to Harrisburg, an hour and ten minutes to Philadelphia, one hour and fifteen minutes to New York, and about three hours to Boston. Highway routes 14, 15, and 220 pass through the city.

HISTORY

Lycoming College has a long and varied history of service in the educational field. Founded in 1812, it was known for a period of thirty-six years as Williamsport Academy. In 1848 a group of men

of Williamsport, under the leadership of Reverend Benjamin H. Crever, hearing that the Academy was about to be discontinued, proposed to accept the school and conduct it as a Methodist educational institution. Their offer was accepted, and completely reorganized with a new president and faculty, it opened September, 1848, as Dickinson Seminary, under the patronage of the old Baltimore Conference. It was acquired in 1869 and is still owned by the Preachers' Aid Society of the Central Pennsylvania Conference of the Methodist Church, and is regularly chartered under the laws of the state of Pennsylvania. It is a non-profit institution. All of its earnings as well as the generous gifts of its friends have been spent for maintenance and improvements.

During a large part of its history, its curriculum covered the work now included in a high school course and at the same time included about two years of college work. By its original charter it was empowered to grant degrees, which authority was for a time exercised. In 1912 it began to confine itself to the college preparatory field and continued in that field until 1929. From that date until June, 1947, it operated as a preparatory school and junior college.

The increased college attendance following the war and trends in higher education in recent years clearly indicated a need for more four year colleges. After giving the matter careful consideration, the Board of Directors, at a special meeting January, 1947, authorized and set in motion plans to adopt a four year college program. The college preparatory department was discontinued June, 1948. In the same year, after approval of the Pennsylvania Department of Education, the charter was amended to include the power to grant Baccalaureate Degrees. The name of the institution was then officially changed to Lycoming College. Lycoming is an Indian name closely associated with this region from early colonial days.

AIM

It is the aim of Lycoming College to provide to qualified students education of such a nature as to supply the background for a more intelligent understanding and appreciation of the economic, political, historical, social, scientific, esthetic, and religious aspects



of life. In addition to the broad, general education, courses preparatory to specialization in law, medicine, dentistry, engineering, and business, or courses preparatory to graduate work in some field of concentration are offered. Terminal education is available in Art, Medical Technology, Medical Secretarial, Music, and Secretarial Science.

BUILDINGS

OLD MAIN. The Main Building is an imposing structure of brick occupying the central part of the campus. In this building are administrative and faculty offices, class rooms, men's day room, lounge, and dormitories for men.

RICH HALL. Dedicated October 15, 1948, Lycoming's modern, brick, women's dormitory is of Georgian Colonial style and fireproof in construction. This beautiful building houses 120 young women. Each suite of two rooms has private bath facilities which are shared by four students. Lounges are conveniently located for entertaining guests and for small student meetings. Also located in the building are the Infirmary and nurse's quarters, game rooms, and the women's day room. The building has been completely furnished with new and attractive furnishings.

EVELAND HALL. Eveland Hall is also of red pressed brick, and is a modern fire-proof building. The basement houses the heating plant. A modern chemistry laboratory and class rooms occupy the first floor. The second and third floors contain dormitories.

FRANKLIN STREET HALL. A large private home has been converted into dormitory and living quarters, arranged to accommodate approximately twenty men. It is currently occupied by the Iota Beta Zeta chapter of Lambda Chi Alpha fraternity.

CLARKE MEMORIAL. This building was made possible by the bequest of Miss Martha B. Clarke, of the class of 1862, as a memorial to her brothers and herself. It is designed in colonial style, is of fireproof construction, and houses the chapel and the dining hall. The chapel which seats six hundred, has excellent acoustics, provides facilities for devotional services, assemblies, dramatics, concerts, and lectures.

The dining hall, on the first floor, is arranged with separate entrances and with coat rooms and wash rooms for men and women. It opens on a terrace overlooking the campus and athletic field. Effort has been made to produce a comfortable, home-like room. Either table service or cafeteria service is possible.

The erection of this building fits into the plan of an attractive quadrangle. On the north the open campus extends to Washington Boulevard.

JOHN W. LONG LIBRARY. The John W. Long Library was dedicated and formally opened October 20, 1951. Constructed of brick in Georgian Colonial style, this imposing building is located on the east side of the campus directly across the athletic field from Rich Hall. The interior is so designed that floor space is adaptable to various modifications in arrangement. The library has space for 100,000 volumes and seats 250 students. It is excellently equipped throughout and is illuminated by lights of the newest design which are located in ceiling panels.

The large reading room, periodical and reference rooms, offices, typing room, and beautifully furnished recreational reading room are located on the first floor. On the ground floor is a faculty reading room. Two audio-visual rooms, one to accommodate seventy-five students and one for twenty students, with a film projection booth and storage room between, are located on the second floor. They are equipped with film projectors for showing films, filmstrips, slides, and other visual material. Two rooms designed for listening to records and equipped with turntables for group and individual listening are also on the second floor. The rare book and historical data room, seminar rooms, and individual study and typing rooms occupy one wing of this floor.

There are now more than 29,000 volumes in the library, and this number is being augmented rapidly. An excellent list of reference works has been provided. A group of books for general reading has also been included in order to stimulate student interest in books not directly related to specific courses.

The library currently subscribes to 260 periodicals which cover all subject fields offered by the college; ten newspapers, including

three in foreign languages; and seven periodical indexing and bibliographical services.

There are 310 albums of literary, foreign language, dictation, social science, and musical recordings. This record collection is in the library for the use of various departments and the students.

A full-time professionally trained librarian, three assistant librarians, and a secretary to the librarian are in charge of the library. Student assistants are employed as needed. This staff is available to help in locating reference material and in preparing bibliographies.

BRADLEY HALL. Bradley Hall, a four story building, is constructed of red brick, and contains the Dramatic Studio, the Lundy Radio Broadcasting Studio, the Business Administration offices and classrooms, and one floor of men's dormitories.

MEMORIAL HALL. Memorial Hall was dedicated on November 1, 1947. It is a three-story building and has floor space of 8,000 square feet. It contains class rooms, departmental offices, and the biology and physics laboratories. This building, erected through the cooperation of the college and the Federal Works Agency, is attractively faced with red brick.

FINE ARTS. The Fine Arts building is located at the northern end of the campus. Three large studios and several smaller practice rooms on the first floor are occupied by the Music Department. The Art Department is located on the second floor and has the advantage of northern lighting. There also are private studios and conference rooms for members of the faculty. The building is well equipped and attractively furnished throughout.

THE GYMNASIUM. Lycoming is fortunate in having a splendid modern gymnasium, which is a popular center of activities. The building is 110 feet by 88 feet, beautifully designed and of semi-fireproof construction.

The basement includes a modern swimming pool 20 by 60 feet, equipped with a sterilization and filtration plant.

There are also two bowling alleys of latest design, and separate rooms and showers for both home and visiting teams. Provision is made for private dressing rooms and shower rooms for women.

The gymnasium floor proper is 90 by 65 feet with a stage at the easterly end. The main floor can readily be converted into an auditorium suitable for recitals or more pretentious productions.

ATHLETIC FIELD. Built partially on the site of the old athletic field, the new field runs north and south, beginning directly behind the gymnasium and dining hall, and extending to the terrace just off Washington Boulevard on the north. Ample room is provided for tennis courts and football field and other intramural sports with bleachers which accommodate 1,000 people.

THE PRESIDENT'S HOME. The architectural style of the President's Home harmonizes with the Fine Arts building and with it forms an imposing unit at the northwest corner of the campus.

AUDIO-VISUAL SERVICES

Special audio-visual equipment includes a 16 mm. sound moving picture projector, a silent projector, one two-by-two slide projector, one combination two-by-two slide and 35 mm. filmstrip projector, a radio, a tape recorder, a wire recorder, two public address systems, a micro-film reader, a micro-card reader, and four turntables for records. Connected with two turntables are ear-phones which makes it possible for several students to listen to different records at the same time without disturbing one another.

A collection of films, filmstrips, micro films, micro cards, and records is being built which is being used in connection with classes, special groups on the campus, and for the pleasure and relaxation of students. One-half of the second floor of the new John W. Long Library is equipped to carry on the audio-visual program.

Through the generosity of the Lundy Construction Company, a Radio Studio has been installed on the ground floor of Bradley Hall where students may be trained in radio speech, announcing, and script writing. The equipment is linked with the local radio station, WRAK, an NBC affiliate.

FINANCIAL INFORMATION

GENERAL

In considering the expenses of college, it is well to bear in mind that no student actually pays the full cost of his education. State colleges are enabled to keep the cost of tuition within reasonable limits by grants from the public treasury; independent colleges achieve this by voluntary contributions supplemented by income from their invested endowment funds. At Lycoming College, a non-profit institution, the tuition fee which each student pays represents approximately three-fourths of the total instruction cost. Tuition is kept at the lowest possible minimum consistent with adequate facilities and competent instruction.

Tuition at Lycoming is \$225.00 per semester, plus certain fees which are listed on the following pages. The present cost of Room and Board per semester is \$275.00 for women and \$260.00 for men. (The academic year comprises two semesters of approximately sixteen weeks each.) If a student requests to use a double room as a single room, he will be charged 50% more than regular rates.

Regularly enrolled students carrying a normal schedule of from 13 to 15 hours of class or laboratory pay the full tuition charge. Those students taking fewer than 13 hours of work per semester, or fewer than 6 hours of work per semester in the summer session, are charged \$15.00 per credit hour. Additional credits beyond the normal schedule of 15 hours are charged at the rate of \$15.00 for each semester hour credit. Because of the individual attention needed, instruction in music and art is charged on a different basis, as is indicated on page 22.

APPLICATION FEE AND DEPOSIT

Every student who desires admission is required to send a registration fee of \$10.00 with the application. This payment partially covers administrative costs of handling the application. The fee is not refundable.

After a resident student is notified that he has been accepted for admission by the college, he must send a payment of \$35.00 to the Director of Admissions. This payment is applied against the general charges of the semester and serves as a room reservation deposit. It will not be refunded unless notice is received at least 30 days prior to the beginning of the semester that the student will be unable to attend.

In order to reserve the room selected by a returning student, the student must have a room deposit of \$25.00 paid on or before August 1, 1954. This amount will be applicable to the general charges of the semester.

BOOKS AND SUPPLIES

A modern book and supply store is conveniently located on the campus. Books and supplies are purchased by the individual student. The estimated cost is approximately \$50.00 per year, but will vary somewhat in accordance with the course of study which the student is pursuing. Terms are cash. The bookstore is open registration day and daily thereafter.

ART AND MUSIC

Tuition for art and music majors is higher than the other courses of study. In these programs best results are obtained by individual instruction; consequently the expense is greater. The cost in excess of the normal tuition varies according to the student's program of study but does not exceed \$50.00 per semester. The exact cost is determined at the time of registration.

Special or part time music students are charged \$40.00 per semester for one one-half hour lesson per week.

A charge of \$5.00 per semester for piano and \$10.00 per semester for organ is made when these instruments are required for practice. These rates are for one period per day for each lesson scheduled.

Special or part time applied art students will be charged \$50.00 for six class periods per week (three credit hours).

EXPENSES IN DETAIL PER SEMESTER

MEN	DORMITORY STUDENTS	Per Semester
Tuition (Normal Schedule)		\$225.00
Room		60.00
Board		200.00
	Basic cost per semester*	\$485.00
WOMEN		
Tuition (Normal Schedule)		\$225.00
Room		75.00
Board		200.00
	Basic cost per semester*	\$500.00
NON-DORMITORY STUDENTS		
Tuition (Normal Schedule)		\$225.00
	Basic cost per semester*	\$225.00

SPECIAL CHARGES

Laboratory Fees per semester:		
Biology, Chemistry, Physics	\$10.00 to \$30.00	
Office Practice (Secretarial Course)		10.00
Office Machines		10.00
Practice Teaching		40.00
Activities Fees—Dormitory Students (per year)		35.00
—Non-Dormitory Students (per year)		30.00
Late Registration Fee		5.00
Additional Credit Per Semester Hour		15.00
Key Deposit (for each key required)50
Tray Fee (for meals served in rooms per tray)20
Freshman Orientation, Room and Board		10.00
Diplomas—for A.B. or B.S. degree		10.00
Certificate		5.00
Caps and Gowns (rental at prevailing cost)

* Does not include activities fee, laboratory fees and extra credit hours, if any.

ACTIVITIES FEE

In support of student activities, including athletics, health, student publications, student organizations, lectures, entertainment, and for use of the library and gymnasium, a yearly fee of \$35.00 (payable \$25.00 first semester, \$10.00 second semester) is charged to the residents and \$30.00 to non-resident students (payable \$20.00 first semester, \$10.00 second semester).

SCHEDULE OF PAYMENTS

All remittances should be made payable to Lycoming College on or before registration day of each semester as follows:

Resident Students	\$325.00
Non-Resident Students	175.00

Bills are not sent for the initial payment, but at mid-semester an itemized statement, showing all charges and payments, will be mailed to the person who is responsible. On receipt of the bill the balance of term charges will be due and payable.

All discounts, scholarships, and earnings from college employment will be applied to the student's account at the end of the semester.

PARTIAL PAYMENTS

For the convenience of those who find it impossible to follow the schedule of payments as listed, the College has made arrangements with The Tuition Plan, Incorporated, for the monthly payment of college fees. Additional information concerning partial payments may be obtained from the President or Treasurer.

WITHDRAWALS AND REFUNDS

The date on which the Dean of the College approves the student's withdrawal sheet is considered the official date of withdrawal. In the case of minors, the approval of the parent or guardian is required before the withdrawal is approved and before any refund is made.

Room rentals have been fixed on a semester basis. Consequently, students leaving college prior to the ending of a semester will not be entitled to any refund on room rent. Board will be pro-rated by the week over the period of attendance.

Refund of tuition will be made to students who withdraw voluntarily from the College while in good standing and is fixed on the following basis: Students leaving during the first four-week period are charged 30%; during the second four weeks 60%; during the third four weeks, 90%; after twelve weeks, full charge.

Dropping a subject from the original schedule after the second week of either semester will not justify any claim for refund of tuition charges. Written permission to drop the subject must be obtained from the Admissions Office. No refund will be made to those students who are asked to withdraw from college.

Other fees cannot be refunded for any reason whatever.

PENALTY FOR NON-PAYMENT OF FEES

A student will not be registered for courses in a new semester if his account for previous attendance has not been settled.

No grades will be issued, no diploma, certificate, transcript of credits, or certification of withdrawal in good standing will be granted to any student until a satisfactory settlement of all obligations has been made.

DAMAGE CHARGES

Wherever possible, damage to dormitory property will be charged to the person or persons directly responsible. Damage and breakage occurring in a room will be the responsibility of students occupying the room.

Halls and bathroom damage will be the responsibility of all students of the section where damage occurs. Actual cost of repairs will be charged.

GUESTS

Parents or guardians visiting students are the guests of the College for the first twenty-four hours. Other guests may be entertained if their student hosts pay the regular rates for their entertainment. In all instances, the Business Office should be notified in advance of expected guests, whether parents or other friends, and payment should be made at that time. Faculty and students remaining at the College during vacations will be charged in accordance with prevailing rates.

DISCOUNTS

Special discounts are allowed for the following:

- (1) Two students from the same family at the same time.
- (2) Children of ministers.
- (3) Students preparing for the ministry or missionary work.

Not more than one discount will be allowed to any student.

The college reserves the right to withdraw any discount from a student whose scholarship or behavior is unsatisfactory.

No discount is allowed on Music and Art, whether taken as extra-subjects in connection with a regular course or whether the student is majoring in one of these subjects.

LOANS

A limited number of worthy students, members of the Methodist Church, may secure loans from the Student Loan Fund administered by the Board of Education of that Church. Christian character, satisfactory scholarship, promise of usefulness, financial responsibility, and the recommendation of the church to which the applicant belongs are essential to a loan. Each borrower must sign an interest-bearing promissory note.

There are also loan funds in the Philadelphia and the Central Pennsylvania Conferences of the Methodist Church for students from these conferences on practically the same terms as above.

The income from \$10,000.00, from the Mr. and Mrs. Robert F. Rich Loan and Prize Fund, is available to a limited number of students. Each borrower must sign an interest-bearing promissory note. The recipients are selected by the President.

Donald Robert Ahn Memorial Fund in Music. The principal of the Memorial Fund is available for loans to worthy students who are majoring in music. Recipients shall be recommended by the Chairman of the Music Department to the President.

Detailed information may be secured from the President.

SELF-HELP

There are opportunities in the College for self-help for a number of women students. Also some men students are able to earn part of their expenses in various ways at the College, and there are frequent opportunities for student work in the city.

ENDOWMENT SCHOLARSHIPS

The Margaret A. Stevenson Powell Scholarship, the gift of her children. Endowment, \$1,200.

The Pearl C. Detwiler Scholarship, bequeathed by her to the Endowment Fund, \$500.

The Frank Wilson Klepser Memorial Scholarship, given by his parents. Endowment, \$5,000.

The Benjamin C. Bowman Scholarship, the gift of Mr. and Mrs. J. Walton Bowman. Endowment, \$5,000.

The Mr. and Mrs. A. F. Young Scholarship. Endowment, \$10,000.

The Miriam P. Welch Scholarship. Endowment, \$500.

The Wilson Hendrix Reiley Memorial Scholarship. Endowment, \$500.

The Mrs. Margaret J. Freeman Scholarship. Endowment, \$1,000.

The Agnes L. Hermance Art Scholarship. Endowment, \$2,000.

The Grace Stanley Dice Memorial Scholarship, the gift of Willis C. Dice, husband. Endowment, \$1,000.

The Clarke Memorial Fund of about \$100,000, provided by gift and bequest by the late Miss Martha B. Clarke, of Williamsport, Pa., a former student, in the interest of the development program of Lycoming College. This was applied to the erection of the Clarke Building.

SCHOLARSHIPS

Over two thousand dollars is awarded annually in scholarships and prizes. This not only encourages scholastic attainment, but also affords generous help to needy, worthy students. The list of scholarships and prizes follows, together with the awards in each case made at Commencement, 1953.

THE DeWITT BODINE SCHOLARSHIP, founded by the late DeWitt Bodine, of Hughesville, Pa.

The entire expenses of board and tuition to that pupil of the graduating class of the Hughesville High School who shall excel in scholarship and character.

DOROTHY M. DILTZ (1952-1953) R. D. 1, Muncy, Pa.

GLORIA Y. BURK (1953-1954) Hughesville, Pa.

THE EDWARD J. GRAY SCHOLARSHIP, founded by the late Rev. Dr. Edward J. Gray, for thirty-one years the honored president of this institution.

The interest on \$1,000 to be paid annually, in equal amounts, to the two applicants who attain a required rank highest in scholarship and deportment in the Senior Class.

HARVEY A. HARTMAN Williamsport, Pa.

C. DANIEL LITTLE Picture Rocks, Pa.

THE ALEXANDER E. PATTON SCHOLARSHIP, founded by the late Hon. Alexander E. Patton, Curwensville, Pa.

The interest on \$1,000 to be paid annually, in equal amounts, to the two applicants who attain a required rank highest in scholarship and deportment in the Junior Class.

JAMES F. CENDOMA Williamsport, Pa.
EDWARD P. DONNELL Williamsport, Pa.

THE GEORGE W. HUNTLEY, JR., SCHOLARSHIP, founded by the late George W. Huntley, Jr., Emporium, Pa.

The interest on \$6,350.00 is available to help defray the tuition and expenses for the first year only of any graduate of Emporium High School who meets provisions as set forth in the trust agreement. The selection is made by the Superintendent of Schools, Cameron Co., Pa.

Not awarded.

THE ELIZABETH S. JACKSON SCHOLARSHIP, founded by the late Mrs. Elizabeth S. Jackson, of Berwick, Pa.

The interest on \$500 to be paid annually to the applicant who attains a required rank highest in scholarship and deportment in the Sophomore Class.

EDMOND J. VAN BAELEN Williamsport, Pa.

THE DONALD C. WOLFE SCHOLARSHIP, founded by the late Mrs. Nora E. Wolfe, of Williamsport, Pa.

The interest on \$4,000.00 to be paid annually to a worthy ministerial student to be selected by the trustees of Lycoming College.

MENNO E. GOOD Blue Bell, Pa.

THE WILLIAM WOODCOCK SCHOLARSHIP, founded by William L. Woodcock, Esq., of Altoona, Pa.

The interest on \$500 to be paid annually to the applicant who attains a required rank second in scholarship and deportment in the Sophomore Class.

MENNO E. GOOD Blue Bell, Pa.

THE HIRAM AND ELIZABETH WISE SCHOLARSHIP, founded by Hiram Wise, Montoursville, Pa.

The interest on \$500.00 to be paid annually to that ministerial or missionary student who because of present circumstances and promise of future usefulness shall, in the judgment of the President, be deemed worthy of the same.

C. MARK PHEASANT Freeland, Pa.

THE MRS. JENNIE N. RICH SCHOLARSHIP of \$5,000, the gift of her son, John Woods Rich, the interest on which is to be used in aiding worthy and needy students preparing for the Christian ministry or for deaconess or missionary work.

JOSEPH E. MATLOCK, JR. Mill Hall, Pa.

THE McDOWELL SCHOLARSHIP, founded by Mr. and Mrs. James E. McDowell, of Williamsport, Pa.

The interest on \$500 to be awarded annually by the President and Faculty to that ministerial student of the graduating class who shall excel in scholarship, deportment, and promise of usefulness, and who declares his intention to make the ministry his life work.

JAMES EARL CAVANAUGH Philadelphia, Pa.

THE DAVID GROVE AND WIFE SCHOLARSHIP, founded by the late David Grove, of Lewistown, Pa.

The interest on \$2,040 to be given to worthy, needy students studying for the ministry, the holder or holders thereof to be appointed by the said Lycoming College.

JAY W. HOUSE Williamsport, Pa.
EDWARD L. YOUNKEN Williamsport, Pa.

THE MARY STRONG CLEMENS SCHOLARSHIP FUND of \$2,500 donated by the late Chaplain Joseph Clemens, of Manila, P. I.

The interest to be used as scholarship, or scholarship loan aid, for the benefit of a student or students of Lycoming College who are preparing for the Christian ministry, or for deaconess work, or its equivalent, in the Methodist Church. Beneficiaries may be named by Mrs. Mary Strong Clemens, or in the absence of such recommendation the recipient or recipients shall be named by the President of the school.

MARY LOU MILLER Lewistown, Pa.

THE BERYL CLINE GLENN SCHOLARSHIP.

The interest on \$1,000.00 to be paid annually to a worthy student in the Music Department. The selection is made by the President and Faculty.

DONALD R. KLEESE Williamsport, Pa.

THE BISHOP WILLIAM PERRY EVELAND MEMORIAL SCHOLARSHIP, founded by the Alumni of Lycoming College who were students during the administration of Bishop William Perry Eveland and in his honor.

The interest on \$1,250.00 to be paid annually to a needy, worthy student or students who shall make the most satisfactory progress in scholarship

and give promise of future usefulness and who by loyalty, school spirit, and participation in school activities is considered by the President and Faculty to most fully represent the standards and ideals of Lycoming College.

RUTH A. THOMPSON Prospect Park, Pa.

THE AMOS JOHNSON SCHOLARSHIP, founded by the late Rev. Amos Johnson, of Philadelphia, Pa.

\$500 to be held and invested by Lycoming College and the income arising therefrom to be used for the education of ministerial students of limited means.

WALTER E. ZELTNER Lafayette Hill, Pa.

THE BENJAMIN C. CONNER SCHOLARSHIP, the interest on \$500 given by an alumnus of the college to be awarded to that graduating student who has had at least 24 hours of mathematics beyond Mathematics 100 and whose average is highest for the mathematics courses taken beyond Mathematics 301.

S. DUANE SWISHER Meshoppen, Pa.

THE RICH MEMORIAL SCHOLARSHIP FUND of \$5,000, provided in the will of the late Hon. M. B. Rich, the interest of which is to be awarded annually to worthy young men or women who intend to devote their lives to the preaching of the Gospel, the missionary cause, or the work of a deaconess. The beneficiary shall be named by the Faculty with the approval of the Board of Trustees.

JAMES H. CLOUSER Burnham, Pa.

DONALD R. HURLEY Petersburg, Pa.

THE C. LUTHER CULLER SCHOLARSHIP, the interest from an endowment of \$5,000 provided in the will of C. Luther Culler, of Williamsport, a graduate of Lycoming College in the Class of 1876. Awarded on scholarship.

FREDERICK W. BISHOP, first Williamsport, Pa. (1952-1953)

THOMAS M. DONAHUE, second Williamsport, Pa. (1952-1953)

WILLIAM L. RAKER, first, R. D. 2, Williamsport, Pa. (1953-1954)

WILLIAM E. DURRWACHTER, second
Williamsport, Pa. (1953-1954)

THE CLARA KRAMER EATON MEMORIAL SCHOLARSHIP, founded by the late Clara Kramer Eaton, of Trevorton, Pa.

The interest on \$8,000 to be awarded annually to that student in the graduating class at Trevorton High School attaining the highest average in scholarship, for the purpose of defraying the expenses of a year of instruction at Lycoming College.

Not awarded.

THE ELISHA BENSON KLINE SCHOLARSHIP PRIZE IN MATHEMATICS, founded by I. Clinton Kline, Sunbury, Pa., in honor of his elder brother who graduated from the College in 1868.

The interest on \$1,000.00 to be paid to a student or students at the discretion of the President of Lycoming College.

MIL0 H. FREY R. D. 1, Williamsport, Pa.

THE NATIONAL METHODIST SCHOLARSHIP AWARDS, authorized by the General Conference of The Methodist Church, are granted on the basis of financial need, promise of usefulness, leadership ability, and scholarship, to Methodist students enrolling as full-time students in an accredited Methodist college or university.

JOHN W. HUNTER Hastings, Pa.
C. DANIEL LITTLE Picture Rocks, Pa.
MARGARET A. MACONAGHY Prospect Park, Pa.
GERALD D. WAGNER Altoona, Pa.
BERADINE WILMARTH Canton, Pa.

THE 1953 \$1,000 COMPETITIVE TRUSTEE SCHOLARSHIPS.

A reduction in tuition of \$125.00 per semester for four years to the three contestants receiving the highest scores in a competitive examination held at the college in May, 1953.

JAMES E. KERN Mahanoy City, Pa.
VIRGINIA A. SHEPHARD Canton, Pa.
SHIRLEY J. HAUGHT Northumberland, Pa.

THE BYRON C. BRUNSTETTER SCIENCE AWARD, established by Mrs. Frank H. Brunstetter in memory of her son. The income on \$500 to be awarded to that senior majoring in the chemical or biological sciences who shall be judged by the Science division to have been a superior student in these sciences.

(Established 1953-1954.)

PRIZES

THE RICH PRIZE of \$25.00, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to the student in the Freshman Class who shall attain a required rank highest in scholarship and deportment.

JOHN F. HAMM South Williamsport, Pa.

THE METZLER PRIZE of \$10.00 for superior work in Junior English, given by the late Rev. Oliver Sterling Metzler, of the Central Pennsylvania Conference.

LORENZO P. PLYLER R. D. 2, Montoursville, Pa.

THE RICH PRIZES of \$10.00 and \$5.00 each, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to be awarded to the two students who at a public contest shall excel in reading the Scriptures.

MENNO E. GOOD Blue Bell, Pa.
MARY LOU MILLER Lewistown, Pa.

THE RICH PRIZES of \$15.00 and \$10.00 each, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to be awarded to the two students who shall excel in writing and delivering an original oration.

Not awarded.

THE ART DIGEST PRIZE, given by the Head of the Art Department, a year's subscription to *The Art Digest*, to that student who has shown the most improvement.

DONNA J. ERTEL Montoursville, Pa.

THE C. B. RIDALL PRIZE of \$10.00, given by P. L. Ridall, B.S., M.D., of Williamsport, Pa., of the Class of 1923, in memory of his father and mother, the late Mr. and Mrs. C. B. Ridall, of Berwick, Pa., to be awarded to that student or students who shall be judged to have done the best work in Bible during the year.

ETHEL L. BOWMAN Williamsport, Pa.

THE BETA PSI SORORITY PRIZE. A gift of \$5.00 to be awarded to that student who by the charm of her personality and self-sacrificing spirit has made a most outstanding personal contribution to Lycoming.

MARJORIE A. STEEL R. D. 2, Altoona, Pa.

THE FACULTY PRIZE, awarded to that day student whose scholastic record has been satisfactory and who, in the opinion of the faculty, has been outstanding in the promotion of school spirit through participation in school activities.

DORIS T. HELLER Williamsport, Pa.

THE 1930 DART PRIZE, the interest on \$300.00 to be given to that student or students in the Art Department according to the recommendation of the Head of the Art Department.

BARBARA J. GRIFFITH Montoursville, Pa.

PAUL S. RUPERT Williamsport, Pa.

THE KAPPA DELTA RHO FRATERNITY PRIZE of \$25.00 to that college organization which during the past year best exemplied an ideal of Kappa Delta Rho; athletic prowess, social grace, or intellectual achievement. Awarded by a majority vote of the brothers, in June, 1953.

Women's Athletic Association.

THE WILLIAMSPORT CIVIC CHOIR PRIZE, to be awarded to that member of Lycoming Choir who in the judgment of the director, the choir members, and the faculty shall have demonstrated through his choir activity his loyalty to the ideals of Lycoming College.

MARLENE M. CARIS Williamsport, Pa.

THE WILLIAMSPORT SYMPHONY SOCIETY PRIZE. Awarded for advanced study in piano at Lycoming College.

DONALD SCHMAUS Williamsport, Pa.

AN AWARD BY THE PENNSYLVANIA INSTITUTE OF CERTIFIED ACCOUNTANTS to the senior judged to be the best accountant in terms of scholarship, personality, and qualities of leadership.

JOSEPH GAUS Williamsport, Pa.



STUDENT LIFE

PROVISION FOR FRESHMEN

The college recognizes the need for giving the freshmen assistance in making desirable adjustments to the college situation. A special program has been prepared for the orientation of freshmen.

All freshmen are required to come to the college several days in advance of the upper-classmen. During this time various tests are given which will aid the college staff in advising the student in his choice of courses. During this period problems of freshmen adjustment are discussed, and directions for study, the use of the library, and other instructional aids are given. Provision is also made for recreation and a wholesome social life.

RELIGIOUS TRADITION

Lycoming College is a Methodist educational institution. However, it is non-sectarian. A check of the Board of Directors, the faculty, and the student body indicates membership in twenty different denominations including Protestant, Catholic, and Jewish. Traditionally, the college attempts to help students of all faiths find the place of religion in their lives. Students attend Sunday morning services at churches in the city. Each student is encouraged to be loyal to the church of his choice.

The college aims to stress the development and practice of a Christian philosophy of life. Courses in Religion (optional with non-Protestants who may substitute a course in Philosophy) include a systematic study of the Bible. Religious emphasis week brings to the college campus outstanding religious leaders. Many of the chapel and assembly programs are religious in nature. The Student Christian Association, membership open to all undergraduates on the campus, meets weekly at Rich Hall. Speakers include many prominent civic leaders, faculty members, and national figures. This group sponsors many and varied activities which aim to promote fellowship and spiritual life among the faculty and students.

The John Wesley Club is composed of students preparing for the ministry or other forms of religious work. Through regular meetings and deputation teams, they gain valuable training and experience in religious work.

Through the generosity of the late Honorable M. B. Rich, for eighteen years President of the Board of Directors, a Department of Religion has been established at the College. The department head gives a large portion of his time to promoting a helpful religious atmosphere at the institution and to aiding students toward a successful solution of personal problems which arise while they are on the campus.

CULTURAL INFLUENCES

Lycoming aims to develop in its students an easy familiarity with the best social forms and customs. Young men and women meet in the dining hall, at receptions and other social functions. These contacts, together with frequent talks by instructors, do much to develop poise and social ease. Persons of prominence are brought to the school for talks and lectures, and excellent talent is provided by community organizations which bring outstanding artists to the city.

STUDENT GOVERNMENT

The college aims to develop in each student a sense of loyalty and responsibility to good citizenship. To this end there is established a Student Government representing the entire student body with the purpose of promoting the general welfare of the college and of providing a more perfect understanding between students and administration.

Certain phases of dormitory life are supervised and regulated by student dormitory governments. In this way students are provided the experience of sharing the responsibilities which are the outgrowth of living closely with each other. The Dean of Women and the Dean of Men exercise an over-all supervisory influence on dormitory life.

STUDENT ACTIVITIES

CAMPUS GROUPS. In addition to the John Wesley Club, Student Christian Association, and the Student Government, there are

varied organizations on the campus which provide students with an interesting and wholesome social life. These are organized and conducted by the students in cooperation with the faculty. Some of these are as follows: The International Relations Club, which is the campus focus for discussion of world affairs; the Foreign Language Club, which supplements class work by aiding students to understand the folklore of the various peoples and facilitates ease of conversation in the language; The Lycoming College Players, which affords opportunity for acting and directing plays as demonstration of the work in the dramatic courses of the curriculum; the Varsity Club, which is composed of lettermen, promotes college spirit in sports; the Pre-Medical Society, which has discussions and hears lectures on various medical data; some religious groups, the Canterbury Club, the Catholic Club, and the Methodist Student Movement.

COLLEGE PUBLICATIONS. There are four college publications. *The Lycoming Courier* is the official student paper, devoted to local interests of the student body, reporting current campus events. *The Arrow*, the college year book, is published in May and presents a record of student life during the current academic year. The staffs of both publications are composed of students interested in gaining more knowledge and experience in journalism and business practices. *The Alumni Bulletin*, issued six times a year, keeps the alumni posted on current happenings at the college and on alumni activities. *The Guidepost*, published by the Student Government, is a student handbook of regulations and miscellaneous information which is distributed during the first week of school.

MUSIC. The Music Department offers several organizations for students interested in music. A College Choir and the Men's Glee Club are open to all students desiring to join. The Lycoming Singers, Men's Quartette, and an A Cappella Choir are formed of selected voices and represent the college at many events. A String Ensemble gives instrument players an opportunity to enjoy the fellowship of good music together. In addition, there are the College Band and Symphony Orchestra, which meet several times each week for practice. These furnish the college with music for many entertainments, athletic events, and celebrations throughout the year.

FRATERNITIES. Five Greek letter groups on the campus provide a means of bringing to men students the advantages of a fraternal organization. They include the Psi Chapter of Kappa Delta Rho, Beta Lambda Chapter of Sigma Pi, Iota Beta Zeta Chapter of Lambda Chi Alpha, a colony of Theta Chi, and the Nu Chapter of Alpha Gamma Upsilon.

The Inter-Fraternity Council coordinates the activities of the fraternities.

HONOR SOCIETIES AND AWARDS

SACHEM HONOR SOCIETY. Any graduating student who has attended Lycoming College for at least three years and has maintained a point average of 2.50 or above, or any junior student who has attended Lycoming College for three years and has maintained a point average of 2.70 or above is eligible for membership.

Members Elected in Former Years:

Class of 1949—Dorothy Cohick, Roy A. Lady, Anna Netta Livingston, Annette E. Piche, Marjorie A. Sundin.

Class of 1950—William Caldwell, Jeannette A. Confer, Charles E. Peterson, Pauline Pribble, Robert Treese.

Class of 1951—Sara Emily McGarvey.

Class of 1952—Harvey A. Hartman, Nancy Ruth Hall.

Class of 1953—C. Daniel Little, Margaret A. Maconaghy.

Members Elected June 4, 1953:

Class of 1953—John H. Knight, Walter H. Rupp.

Class of 1954—James F. Cendoma, Edward P. Donnell, Jack F. Wilson.

ALPHA PSI OMEGA is an honor society for dramatic students. Worthy students are elected to the fraternity as a reward for their efforts in participating in the plays staged by the Lycoming College Players.

THE CHIEFTAIN AWARD is given to that senior in the opinion of the students and faculty who has contributed the most to Lycoming College through support of school activities; who has a pleasing personality and the ability to get along with his co-workers, both students and faculty; who has evidenced a good moral code; and who has a good scholastic standing.

June, 1952 Nancy R. Hall, South Williamsport, Pa.

June, 1953 C. Daniel Little, Picture Rocks, Pa.

RECREATION AND HEALTH

INTERCOLLEGIATE SPORTS. The college offers an attractive program of intercollegiate athletics. Varsity teams represent the college in competition with other four year institutions in such sports as football, basketball, baseball, and tennis. Lycoming is a member of the Middle Atlantic Athletic Conference and the National Collegiate Athletic Association.

RECREATION. An extensive program of intramural athletics affords opportunity for every student not a member of a varsity team to participate in one or more sports. These are run in connection with the required physical education program. Basic instruction in game techniques is given in physical education class, and the intramural program affords opportunity for individual and team competition. Some of these sports are tennis, swimming, basketball, handball, badminton, bowling, volleyball, softball, and table tennis for both women and men; rhythmical activities, field hockey and archery, for women; boxing, touch football, and water polo for men.

In addition to the athletic recreation program, various organizations on the campus, the Lecture Series, motion pictures, and numerous social affairs offer programs of interest.

STUDENT INSURANCE. By a special group plan, our students are able to secure accident and sickness insurance covering medical and hospital expenses whether at home or at college during one academic year. Reimbursement will be made up to \$500.00 for each incident. All students are advised to carry this protection.

PHYSICAL EXAMINATION. A physical examination of all students is required. This examination is conducted by the student's own physician and a report each year made on a standard form supplied by the College. This report is presented on Registration Day to a faculty member from the Physical Education department.

In connection with the physical examination, all entering students must have a chest X-ray. If this cannot be arranged before entering, the Tuberculosis Society will take chest X-rays at a nominal cost. The student bears the expense of the X-ray.

INFIRMARY SERVICE. The infirmary fee, included in the over-all activities fee, covers the following medical service: the college nurse holds infirmary hours each day, except Sunday, that the college dormitories are open; she is also available for first aid treatment and will call to the attention of the college physician any case demanding special treatment.

Such service, however, shall not be interpreted to include X-rays, surgery of more than minor nature, care of major accidents on or off campus, immunization for colds, examination for glasses, doctors' calls, cases of serious chronic disorder, or other extraordinary situation.

Each student is entitled to three days of infirmary service per school year, including routine nursing and ordinary medicines. There will be a charge of \$2.00 per day for each additional day or fraction thereof beyond the allotted days.

Special nursing service and special medicines and prescriptions will be at the expense of the student. Parents will be notified by the College when students are confined to the infirmary with serious illnesses.

GUIDANCE

An advantage of a small college is the rich experience gained by the close association of students and faculty. In addition to this valuable personal relationship, which affords students the opportunity to discuss various problems with their instructors, Lyeoming has a well-rounded guidance program for its students. Under the direction of the Dean of the College, this program includes areas as represented by the Dean of Men, the Dean of Women, and the Guidance Director with his group of faculty advisers. The program begins with a personal interview between the Director of Admissions and the candidate for admission. These interviews are sufficient in length to obtain a picture of the student, his background, and his plans for the future. When the student enters the College as a Freshman, he is given the opportunity to take aptitude and psychological examinations. On the basis of preparatory or high school records, aptitude and psychological examination scores, and various interviews, an evaluation of the student can be formed.

Additional information is obtained as the student progresses through his college life. His welfare is the sole purpose of the

guidance program, which stands ready to help him make an intelligent decision regarding his vocational choice and solve important personal problems.

PLACEMENT SERVICE

The Placement Bureau maintains a register listing the talents and major interests of students and recent alumni. Literature from businesses and industrial associations is kept available. Consultations with the Placement Director assist students toward wise selection of a profession. Interviews are then scheduled at which students meet and confer with representatives from companies in which they are interested. The goal of the Bureau is to make the best possible connection for each graduate. Lycoming graduates are usually placed before commencement.

There are many diversified businesses in Williamsport. These firms give students at Lycoming splendid opportunities for visits, tours, and career conferences. They also afford the student body a variety of part-time jobs during each college session. The Placement Bureau serves as a clearinghouse for part-time employment and can usually find work for every student needing it. Normally the demand exceeds the supply of available workers.

PROVISION FOR VETERANS

Lycoming is fully approved for the educational program for Veterans under Federal Public Laws 346, 16, 550, and 894.

RESIDENT STUDENT LIFE

Living quarters are provided on the campus for 140 women and 215 men. Efforts are made each year to keep the dormitories in such repair that they constitute comfortable and attractive homes for the students.

Rooms at Lycoming are furnished as follows: desk, bureau, chair, single bed, mattress, and pillow. Students must supply their own bed linen, blankets, study lamps, and alarm clocks. The men can make their rooms more attractive by using throw rugs and plastic drapes.

The students will make their own arrangements for laundry service. A local laundry has a representative on campus for the con-

venience of all boarding students. It is recommended that the student bring a minimum of six sheets (single bed), three pillow cases, and two double blankets.

DISCIPLINE

The discipline of the College is firm, reasonable, and sympathetic. All students are considered responsible citizens and members of a Christian community. Any student who is antagonistic to the spirit and general purpose, or who fails to abide by the regulations set up by the College, may be asked to withdraw from the College at any time during the school year.

REGULATIONS

It is understood that students entering Lycoming do so with the intention of making an honest effort to do satisfactory work in every respect. When a student is not able to conform to the school program, the parents or guardians are asked to withdraw the student from the school.

The College regulations, in addition to those published here, are furnished each student upon matriculation. Announcements during the year by college authorities may amend or supplement the catalogue regulations and are to be adhered to as such.

Students from a distance are required to reside in the dormitories. Permission for any exception to this rule must be obtained from the administration. When such permission is granted, the place of residence and living accommodations must be approved by the Dean of Women or the Dean of Men.

Money and valuables should be placed in the school safe; otherwise the College will not assume responsibility.

No intoxicants or drinking of intoxicants is permitted.

Permission to maintain automobiles on the campus must be obtained from the administration. License numbers must be recorded during registration.

Firearms for hunting must be deposited with the Dean of Men while on the campus.

Dormitory students are expected to vacate their rooms during the vacation periods. Exceptions must be reported to the Dean of Men.

CURRICULUM INFORMATION

APPLICATION PROCEDURE

Complete application forms for admission to Lycoming may be obtained from the Director of Admissions. Included with these are directions for making applications.

A registration fee of \$10.00 is required with each application. This fee is not refunded. Veterans under Public Law 346 or 16 will be reimbursed by the Veterans Administration.

Applicants who are accepted will receive a statement evaluating their high school credits and granting proper classification. Those rejected will be notified.

REQUIREMENTS FOR ADMISSION

A candidate for admission must be of good moral character and show evidence of ability and preparation to pursue the program of his choice at Lycoming. The usual evidence of preparation is a certificate showing satisfactory completion of 15 units of high school work or its equivalent as follows:

	English	History	Math	Science	Elec.
†A.B. Degree	3 (4 yrs.)	1	2	1	8
*B.S. Degree	3 (4 yrs.)	1	2	1	8
Medical Sec.	3 (4 yrs.)	1	2	1	8
Lab. Tech.	3 (4 yrs.)	1	2	1	8
Sec. Science	3 (4 yrs.)	1	0	0	11
Art	3 (4 yrs.)	1	0	0	11
**Music	3 (4 yrs.)	1	0	0	11

† Pre-engineering students and mathematics majors must include plane geometry as one of the two units of mathematics.

* Business Administration requires 1 unit of mathematics and 9 elective units.

** A letter of recommendation from the applicant's private teacher and/or high school music supervisor should accompany the application.

Applicants ranking in the upper three-fifths of their high school class or presenting a certificate showing all grades of college certificate value may be admitted without examination.

Candidates for entrance who do not meet the above requirements for admission may be accepted upon making a satisfactory score on the college entrance examination or upon a satisfactory college board examination rating.

TERMINAL EDUCATION

In addition to programs leading to the Baccalaureate Degree, Lycoming offers certain two-year terminal courses in Art, Music, Medical Secretarial, Medical Technology and Secretarial Science. Upon satisfactory completion of these courses, the student is awarded a certificate at the graduation exercises.

ADVANCED STANDING

A student may be admitted to Lycoming with advanced standing provided he has earned satisfactory credit at an approved college. Application for advanced standing must be supported by an honorable dismissal and an official transcript of the college previously attended. A student admitted with advanced standing must satisfy graduation requirements to be awarded a degree.

Some academic credit may be allowed for training courses and educational experiences in the armed services according to the general pattern recommended by *A Guide to the Evaluation of Educational Experiences in the Armed Services*, issued by the American Council on Education, provided such courses or experiences are appropriately related to a college of liberal arts.

CLASSIFICATION OF STUDENTS

Freshman: See requirements for admission.

Sophomore: Not fewer than 24 semester hours.

Junior: Not fewer than 54 semester hours.

Senior: Not fewer than 86 semester hours and a reasonable chance of completing all requirements for graduation.

Unclassified: Students who do not wish to enter upon a regular course of study may pursue studies offered for which their previous training, in the opinion of the College, fits them. Only a limited number of unclassified students are accepted. Such students are not admitted to candidacy for a degree.

GRADING SYSTEM

A credit hour is defined as one hour of classroom work, or the equivalent, each week during a full term of sixteen weeks. Ordinarily two hours of laboratory work are rated as one credit hour.

The number system of grading with the corresponding quality points is used. "3" indicates work of the highest excellence, showing a superior grasp of the content, as well as independent and creative thinking in the subject. "2" signifies better than average achievement wherein the student reveals insight and ability. "1" is given for satisfactory achievement on the college level when work in the course has been conscientious and has shown no considerable deficiency in either quality or quantity. "0" indicates that work in the course has met the minimum essentials. "-1" is failure. Work failed must be repeated satisfactorily before any credit can be obtained for that course.

Scholastic rank is determined on the quality point system where "3" counts 3 quality points per credit hour, "2" counts 2 points per hour, "1" counts 1 point per hour, "0" carries no point value, and "-1" counts -1 point per hour.

NORMAL STUDENT LOAD

The normal load per semester for students is from twelve to fifteen hours of academic work and two classes per week of physical education during the first two years.

OVER LOAD

Students who wish to carry in excess of the normal load are charged \$15.00 per credit hour. A schedule of more than seventeen

hours of academic work may be taken if the student has an average of 2.0 for all previous work and obtains written permission from the Dean of the College or has an average below 2.0 and receives the written permission of a special committee.

PROBATION

Students whose grade-point average falls between .00 and .5 are placed on probation. Students on probation must maintain an average of 1.0 for a normal load for a semester, or during a summer to be removed from probation.

DISMISSAL

Freshmen who fail to maintain an average of at least .00 the first year shall be asked to withdraw from the College. Upper classmen whose averages fall below .00 for any semester may be asked to withdraw from the College. The College also reserves the right to deny admission to any applicant or to dismiss any student at any time if the administration considers such action to be for the best interests of the student or the College. Students dismissed for academic reasons may request reinstatement after one semester. Readmission of a student may be refused if in the considered opinion of the Admissions and Standards Committee he does not meet all the requirements of the College in the specific curriculum for which readmission has been sought.

ATTENDANCE

The program at Lycoming is built on the assumption that there is value in class and assembly and chapel attendance for all students. Therefore, all students are expected to attend all classes and a specified number of assembly and chapel exercises.

Specific regulations as to permissible absences and penalties for excessive absences are announced from time to time. Responsibility for learning and complying with these regulations rests with the student.

REQUIREMENTS FOR GRADUATION

The college offers courses of study leading to the degrees of Bachelor of Arts and Bachelor of Science. For either degree the minimum requirements are:

120 academic hours, including required courses and one major of at least 24 hours.

120 or more academic quality points on the basis of: "3"—3 points per credit hour; "2"—2 points per credit hour; "1"—1 point per credit hour; "0"—0 points per credit hour.

4 semester hours credit of physical education (not included in the 120 academic hours).

Chapel credit for each fall and spring semester of attendance at Lycoming College ($\frac{3}{4}$ of number of chapel periods per semester).

One course in Bible for all Protestant students.

All financial obligations incurred at the college must be paid.

The work of the final year is to be taken at this college, except in the case of students enrolling in the cooperative programs in engineering or forestry as outlined on pages 69 and 70.

PROGRAMS FOR STUDY

Lycoming is anxious to aid its students to prepare for living a normal, well-adjusted life, as well as to prepare them for a variety of careers. The growing belief in professional schools that the best preliminary training is a broad cultural education has added new emphasis to the type of program now offered by Lycoming. This program offers a general education, conceded as necessary to a well-rounded individual living in today's ever smaller world, and yet is equipped to add more specialized courses so that a student looking forward to a particular career may specialize in the field of his vocational interest.

Choosing one's life work is an important and serious matter. In this selection, Lycoming, as a liberal arts college, plays an important role. While some students enter college with a well-defined aim, many others are far from settled in their minds as to their own particular vocation. The first two years of a liberal arts course give the student glimpses into many fields and thus by the beginning of his third or Junior year, the student with this background and with the advice of the faculty, usually is well prepared to indicate his field of specialization.

The following pages contain some of the programs offered at Lycoming. Others are available upon sufficient demand. It is recommended, therefore, that the student discuss his proposed plan with the Registrar, or, if a returning student, with his adviser.

BACHELOR OF ARTS

A candidate for this degree selects graduation requirements from the three general divisions as follows:

DIVISION I: HUMANITIES

English Composition	6 hours
Literature	6 hours
Foreign Language	6 or 12 hours
Philosophy and Religion	6 hours
Appreciation of Art	3 hours
Appreciation of Music	3 hours
Chapel and Assembly	hours*

*Assembly and chapel credit for each fall and spring semester that the candidate is in attendance at Lycoming College.

DIVISION II: SOCIAL SCIENCE

Western Civilization	6 hours
American History	6 hours
Psychology	3 hours
Political Science	3 hours

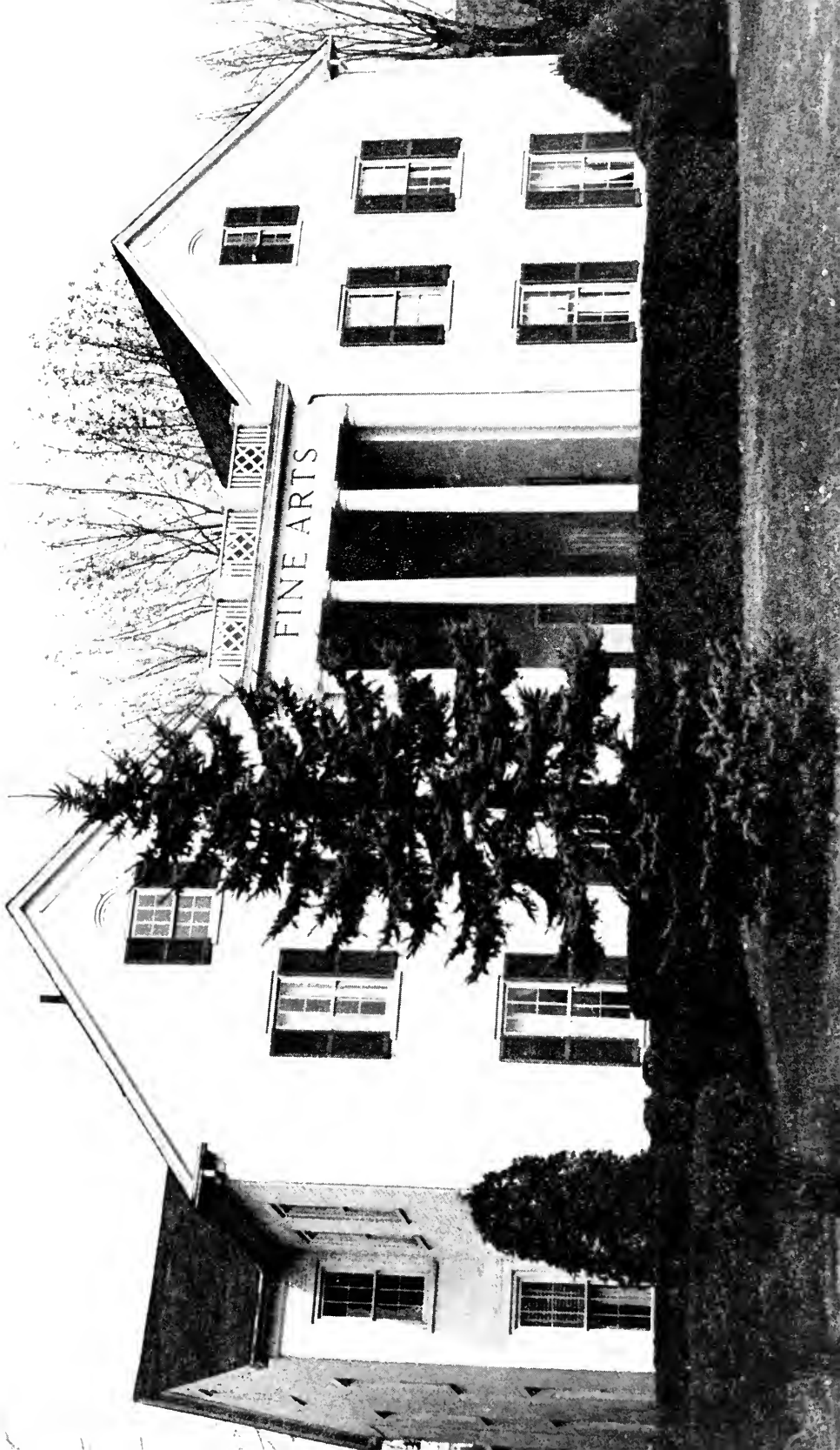
DIVISION III: SCIENCES

Physical Sciences and	3 hours
Biological Sciences, or	3 hours
A Laboratory Science	8 hours
Physical Education	4 hours

The candidate for the Bachelor of Arts degree chooses a major of at least 24 credit hours from one of the following fields: Art, Biology, Chemistry, Economics, English, History, Language, Mathematics, Music, Political Science, Psychology, Science, Social Science, and Sociology. (Fields of concentration in Social Science may be selected in Economics, History, Sociology, Political Science, and Psychology.)

a. The major in Physical Science consists of (1) first level courses in Chemistry (101-102), Mathematics (101-102), and Physics (101-102), and (2) two years beyond the first level courses in Chemistry, Mathematics, or Physics.

b. The major in Social Science consists of (1) 18 hours in one field of concentration (24 hours in the case of History), and (2) 18 hours in at least three of the related Social Science fields.



FINE ARTS

**CURRICULUM FOR A.B. DEGREE
BASIC SCHEDULE**

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 (W. Civilization) 3		History 112 (W. Civilization)	3
*Science 101 (Physical)	3	*Science 102 (Biological)	3
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111		#Physical Education 102 or 112	
	—		—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3		English 202 or 204 (Literature) 3	
History 201 (United States)	3	History 202 (United States)	3
Psychology 201 (General)	3	Art 130 (Appreciation)	3
†Foreign Language	3	†Foreign Language	3
Political Science 201 (Am. G't.) 3		Philosophy 207 (Introduction) ..	3
#Physical Education 201 or 211		#Physical Education 202 or 212	
	—		—
	15		15

* A laboratory science may be substituted.

† French, German, Spanish, or Greek may be elected.

No academic credit is granted for physical education.

A candidate for the A.B. degree must complete four semesters of a foreign language, or two years of foreign language on the high school level with two semesters of the same language on the college level.

JUNIOR AND SENIOR YEARS

Students select prescribed courses and electives to complete degree requirements as outlined in the previous section. Special curricula are listed on following pages.

PRE-MEDICINE

The modern physician or surgeon is no longer one who has studied merely medicine. He is a man with a broad cultural training, capable of treating more than physical ailments. Therefore, medical authorities are recommending a full four years of liberal arts program and are requiring certain specific subjects in preparation for medical school.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Mathematics 101 (Algebra)	3	Mathematics 102 (Trig.)	3
Chemistry 101 (General)	4	Chemistry 102 (General)	4
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111		#Physical Education 102 or 112	
	—		—
	16		16

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3		
History 111 (W. Civilization) .. 3	History 112 (W. Civilization) 3		
Biology 101 (General)	4	Biology 102 (General)	4
Chemistry 202 (Quantitative) .. 4	Chemistry 203 (Quantitative) 4		
†Foreign Language	3	†Foreign Language	3
#Physical Education 201 or 211		#Physical Education 202 or 212	
	—		—
	17		17

JUNIOR YEAR

Biology 201 (Com. Vert. Anat.) 4	Biology 202 (Com. Vert. Anat.) 4		
Chemistry 301 (Organic)	4	Chemistry 302 (Organic)	4
History 201 (United States) 3	History 202 (United States) 3		
Political Science 201 (Am. G't.) 3	Physics 101 (General)	5	
Sociology 201 (Problems)	3		—
	—		—
	17		16

SENIOR YEAR

Physics 102 (General)	5	Psychology 201 (General)	3
Biology 301 or 302		Biology 401 or 402	
(Physiol. or Vert. Emb.)	4	(Histology or Genetics)	4
Economics 201 (Principles)	3	Philosophy 207 (Introduction) ..	3
Art 130 (Appreciation)		Elective	3
or Elective	3		—
	—		—
	15		18

†French, German, or Spanish may be elected.

#No academic credit is granted for physical education.

PRE-DENTISTRY

The American Council on Dental Education has fixed a minimum of two full years of college work as a requirement for entrance to dental schools. However, a four-year course is recommended and the trend toward this has been very rapid following World War II.

FRESHMAN YEAR			
<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Chemistry 101 (General)	4	Chemistry 102 (General)	4
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111		#Physical Education 102 or 112	
	—		—
	16		16
SOPHOMORE YEAR			
English 201 or 203 (Literature) 3		English 202 or 204 (Literature) 3	
Chemistry 202 (Quantitative) ..	4	Chemistry 203 (Quantitative)	4
Biology 101 (General)	4	Biology 102 (General)	4
†Foreign Language	3	†Foreign Language	3
Psychology 201 (General)	3	Art 130 (Appreciation)	3
#Physical Education 201 or 211		#Physical Education 202 or 212	
	—		—
	17		17
JUNIOR YEAR			
Chemistry 301 (Organic)	4	Chemistry 302 (Organic)	4
Biology 201		Biology 202	
(Comp. Vert. Anatomy)	4	(Comp. Vert. Anatomy)	4
History 201 (United States)	3	History 202 (United States)	3
Mathematics 101 (Algebra)	3	Physics 101 (General)	5
Mathematics 102 (Trigo'metry) 3			
	—		—
	17		16
SENIOR YEAR			
Physics 102 (General)	5	Philosophy 207 (Introduction) ..	3
Biology 301 or 401		Electives	12
(Physiol. or Histology)	4		
Economics 201 (Principles)	3		
Political Science 201			
(Amer. Gov't.)	3		
	—		—
	15		15

†French, German, or Spanish may be elected.

#No academic credit is granted for physical education.

PRE-LAW

Many law schools are at present requiring the Bachelor of Arts degree for admission. Training in law is not only basic to the practice of law but also makes possible many other forms of public service.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111		History 112	
(Western Civilization)	3	(Western Civilization)	3
*Science 101 (Physical)	3	*Science 102 (Biological)	3
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111		#Physical Education 102 or 112	
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3
History 201 (United States) 3	History 202 (United States) 3
Psychology 201 (General)	Philosophy 207 (Introduction) .. 3
†Foreign Language	†Foreign Language
Political Science 201	Political Science
(Amer. Gov't.)	(State and Local)
#Physical Education 201 or 211	#Physical Education 202 or 212
	15
	15

JUNIOR YEAR

History 302	History 323 (English Hist.)
(Amer. For. Rel.)	Economics 202 (Problems)
Economics 201 (Principles)	Sociology 201 (Problems)
Sociology 202	Political Science 302
(Marriage and Family)	(Pol. Parties)
Political Science 301 (Prin.) 3	Art 130 (Appreciation)
Speech 105 or 106	
	15
	15

SENIOR YEAR

Political Science 303	Political Science 304
(Comp. Gov't.)	(Mun. Gov't.)
Economics Elective	History Elective
History Elective	Electives
Electives	
	15
	15

* A laboratory science may be substituted.

†French, German, or Spanish may be elected.

#No academic credit is granted for physical education.

PRE-MINISTERIAL

In a statement on pre-seminary studies issued by the American Association of Theological Schools, it is suggested that a student acquire a total of 90 semester hours in the areas listed below. A major in English, history, or the social sciences is recommended.

English (Composition, Literature, Speech)	12-18 sem. hrs.
Philosophy (Introduction, History of Philosophy, Ethics, Logic)	6-12 sem. hrs.
Bible and Religion	3- 6 sem. hrs.
History	6-12 sem. hrs.
Psychology	3 sem. hrs.
Foreign Language (Greek, French, German)	12-15 sem. hrs.
Natural Sciences (Physical or Biological)	4 sem. hrs.
Social Sciences (Sociology, Political Science, Social Psychology)	3- 6 sem. hrs.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
*Science 101 (Physical)	3	*Science 102 (Biological)	3
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111	3	#Physical Education 102 or 112	3
	15		15

SOPHOMORE YEAR

English 201 (Literature)	3	English 202 (Literature)	3
History 201 (United States)	3	History 202 (United States)	3
Psychology 201 (General)	3	Art 130 (Appreciation)	3
†Foreign Language	3	†Foreign Language	3
Sociology 101 (Introductory)	3	Philosophy 207 (Introduction) ..	3
#Physical Education 201 or 211	3	#Physical Education 202 or 212	3
	15		15

JUNIOR YEAR

English 203 (Literature)	3	English 204 (Literature)	3
Political Science 201 (Am. G't.)	3	Speech 105 or 106	3
Electives	9	Electives	9
	15		15

SENIOR YEAR

Electives	15	Electives	15
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The schedules for the junior and senior years should be based on the requirements of the theological school of your choice and the advice of the instructor in charge of counseling ministerial students.

Sociology 211 required of students serving charges.

*A laboratory science may be substituted.

†French, German, Spanish, or Greek may be elected.

#No academic credit is granted for physical education.

ART MAJOR, A.B. DEGREE

A major in Art consists of 30 hours of which 9 hours are courses in art theory.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 (W. Civilization) ..	3	History 112 (W. Civilization)	3
Art 141 (Design)	3	Art 142 (Design)	3
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111	—	#Physical Education 102 or 112	—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3
History 201 (United States) 3	History 202 (United States)
†Foreign Language	†Foreign Language
Art 143 (Drawing I)	Art 144 (Drawing I)
Art 245 (Painting I)	Art 246 (Painting I)
#Physical Education 201 or 211	#Physical Education 202 or 212
—	—
15	15

JUNIOR YEAR

Science 101 (Physical)	3	Science 102 (Biological)	3
Psychology 201 (General)	3	Philosophy 207 (Introduction) ..	3
Political Science 201		Art 130 (Appreciation)	3
(Amer. Gov't.)	3	Art Electives	3
Art Electives	3	Electives	3
Electives	3		
—	—		
15			15

SENIOR YEAR

Art Elective	3	Electives	15
Electives	12		
—	—		
15			15

†French, German, or Spanish may be elected.

#No academic credit is granted for physical education.

MUSIC MAJOR, A.B. DEGREE

The major in music consists of 31 hours, of which 12 are to be in the 300 and/or 400 level, with 19 hours in principles and history, and 12 in applied music.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language.....	3	†Foreign Language	3
Music 121 (Theory)	4	Music 122 (Theory)	4
Applied Music	1½	Applied Music	1½
Ensemble	½	Ensemble	½
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111	—	#Physical Education 102 or 112	—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3
History 111 (W. Civilization) .. 3	History 112 (W. Civilization) 3
†Foreign Language	†Foreign Language
Music 221 (Theory)	Music 222 (Theory)
Applied Music	Applied Music
Ensemble	Ensemble
#Physical Education 201 or 211	#Physical Education 202 or 212
—	—
15	15

JUNIOR YEAR

Science 101 (Physical)	3	Science 102 (Biological)	3
History 201 (United States)	3	History 202 (United States)	3
Psychology 201 (General)	3	Political Science 201	
Music 311 (History of)	3	(Amer. Gov't.)	3
Applied Music	1½	Art 130 (Appreciation)	3
Ensemble	½	Applied Music	1½
		Ensemble	½
		Electives	3
	—		—
	14		17

SENIOR YEAR

Philosophy 207 (Introduction) 3	Electives	15
Music Electives from 300-400		
Offerings		9
Electives		3
	—	—
	15	15

†French, German, or Spanish may be elected.

#No academic credit is granted for physical education.

SECONDARY EDUCATION
A.B. DEGREE

Eighteen hours in the field of education are required for certification in Pennsylvania. These must include Introduction to Teaching, 3 hours; Educational Psychology, 3 hours; Practice Teaching, 6 hours; and 6 hours of electives in education. The Department of Public Instruction requires a basic course in American and Pennsylvania History, a requirement satisfied by History 201 or 202.

In Secondary Education, majors are offered in English, French, German, Spanish, history, social science, mathematics, biology, chemistry, and science (mathematics and physics). In addition to the eighteen prescribed hours of education, twenty-four hours are required for a major, and serve as the first teaching field. Eighteen hours are required in each additional teaching field.

The State gives certification to teach the social studies, (namely, history, civics, Problems of Democracy, economics, and sociology) by taking 9 hours of history and 3 hours each of political science, economics, and sociology, totaling eighteen hours. Certification is also given to teach science (namely, physics, chemistry, biology, and general science) by taking 9 hours of Physical Science, divided into 6 hours of chemistry and 3 hours of physics (or vice versa), and 9 hours of Biological Science, divided into 6 hours of zoology, and 3 hours of botany (or vice versa).

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 (W. Civilization)	3	History 112 (W. Civilization)	3
*Science 101 (Physical)	3	*Science 102 (Biological)	3
†Foreign Language	3	†Foreign Language	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
#Physical Education 101 or 111	—	Physical Education 102 or 112	—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature)	3	English 202 or 204 (Literature)	3
History 201 (United States)	3	History 202 (United States)	3
Psychology 201 (General)	3	Psychology 309 (Educational) ..	3
†Foreign Language	3	†Foreign Language	3
Education 201 (Introduction) ..	3	Art 130 (Appreciation)	3
#Physical Education 201 or 211	—	#Physical Education 202 or 212	—
	15		15

* A laboratory science may be substituted.

†French, German, or Spanish may be elected.

#No academic credit is granted for physical education.

JUNIOR YEAR

Political Science 201	Philosophy 207 (Introduction) ..	3
(Amer. Gov't.)	Educational Elective	3
Educational Elective	Electives	9
Electives		9
—		—
15		15

SENIOR YEAR

Electives	Education 401	
	(Practice Teaching)	6
	Electives	9
—		—
15		15

Students planning to teach mathematics or the sciences will consult with Director of Admissions before registering for their first semester. All others desiring certification should report to the Director before beginning their sophomore year.

SECONDARY EDUCATION

B. S. DEGREE

Students desiring to major in education may elect the Bachelor of Science curriculum which parallels the program outlined on page 53. No foreign language is required but additional courses in education are substituted and courses in speech are recommended.

An interview with the Director of the Education Department should be scheduled before registering for the first semester.

BACHELOR OF SCIENCE

BUSINESS ADMINISTRATION CURRICULUM

A candidate for this degree selects graduation requirements from four divisions as follows:

DIVISION I: HUMANITIES

English Composition	6 hours
Literature	6 hours
Philosophy and Religion	6 hours
Appreciation of Art	3 hours
Appreciation of Music	3 hours
Chapel and Assembly	hours*

DIVISION II: SOCIAL SCIENCE

Western Civilization or American History	6 hours
Psychology	3 hours
Political Science	6 hours**
Sociology	3 hours

DIVISION III: SCIENCES

Physical Science and Biological Science	6 hours
Physical Education	4 hours

DIVISION IV: BUSINESS ADMINISTRATION AND ECONOMICS

Accounting Principles	6 hours
Principles of Business	3 hours
American Economic History	3 hours
Business Mathematics and Statistics	6 hours
Business Law	8 hours
Economic Principles and Problems	6 hours**
Economic Geography	6 hours**

* Assembly and chapel credit for each fall and spring semester that the candidate is in attendance at Lycoming College.

** Three hours each required for the Executive Secretarial Science major.

The candidate for the Bachelor of Science degree may select a major of at least 24 hours from one of the following fields: Accounting, Banking and Finance, Economics, Retail Distribution, General Business Administration, or Secretarial Science.

Majors will be granted in the fields of Accounting, Banking and Finance, Retail Distribution, and Economics upon the completion of 24 hours in elective courses listed below. For those persons not desiring any particular major 24 hours must be elected in the field of Economics and/or Business Administration. The Executive Secretarial Science major is outlined on page 61.

1. *Majors in Accounting—24 hours*

Sophomore year—elect Business 215 and 216 (Accounting).

Junior year—elect Business 311, 312, and 313 (Accounting).

Senior year—elect Business 423, 424, and 425 (Accounting).

2. *Majors in Banking and Finance—24 hours*

Sophomore year—elect Business 206 and 207 (Money and Banking).

Junior year—elect Business 304 (Credits and Collections), Business 307 (Organization and Finance Management), and Business 401 (Real Estate).

Senior year—elect Business 308 (Investment), Business 405 (Public Finance), and Business 406 (Bank Policies and Administration).

3. *Majors in Retail Distribution—24 hours*

Junior year—elect Business 341-342 (Principles of Retailing I and II), Business 345 (Retail Advertising and Sales Promotion), Business 346 (Retail Salesmanship), Speech 105, 106 or 205.

Senior year—elect Business 441 (Retail Buying and Merchandising), Business 443 (Retail Personnel Management), Business 445-446 (Retail Problems I and II).

4. *Majors in Economics—24 hours*

Junior year—elect Economics 305 (Labor Problems), Economics 306 (Labor Legislation), Economics 304 (Consumer Economics), and Economics 402 (Transportation).

Senior year—elect Economics 403 (History of Economic Thought), Economics 404 (Advanced Economics), Economics 405 (Public Finance), Economics 406 (Principles of Public Utilities).

BUSINESS ADMINISTRATION

The Business Administration Course contains highly practical courses in the field of Business and Economics. In addition, the elements of a broad, cultural background, valuable in preparation for positions of an administrative and executive nature are retained.

BASIC SCHEDULE

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
Business 101 (Accounting)	3	Business 102 (Accounting)	3
Business 103 (Principles)	3	Business 104 (Economic Hist.) ..	3
Business 110 (Mathematics)	3	Business 111 (Statistics)	3
#Phys. Ed. 101 or 111	—	#Phys. Ed. 102 or 112	—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3		
Economics 201 (Principles)	3	Economics 202 (Problems)	3
*Economics 301 (Geography)	3	*Economics 302 (Geography)	3
History 111 or 201		History 112 or 202	
(W. Civilization or U. S.)	3	(W. Civilization or U. S.)	3
Art 130 (Appreciation)	3	Philosophy 207 (Introduction) ..	3
#Phys. Ed. 201 or 211	—	#Phys. Ed. 202 or 212	—
	15		15

JUNIOR YEAR

Political Science 201		Political Science 202	
(Amer. Gov't.)	3	(State and Local)	3
Science 101 (Physical)	3	Science 102 (Biological)	3
Business 302 (Law)	4	Business 303 (Law)	4
Psychology 201 (General)	3	Sociology 201 (Problems)	3
Electives	3	Electives	3
	16		16

SENIOR YEAR

Electives	15	Electives	15
	—		—
	15		15

* Majors in Accounting substitute Business 215-216 (Accounting) and take Economics 301-302 in junior year.

* Majors in Banking and Finance substitute Business 206-207 (Money and Banking) and take Economics 301-302 in junior year.

No academic credit is granted for physical education.

EXECUTIVE SECRETARIAL SCIENCE
MAJOR

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 or 201 (W. Civil. or U. S.)	3	History 112 or 202 (W. Civil. or U. S.)	3
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
Business 101 (Accounting)	3	Business 102 (Accounting)	3
Business 103 (Principles)	3	Business 112 (Computations) ...	3
#Phys. Ed. 101 or 111	—	#Phys. Ed. 102 or 112	—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3
Economics 201 (Principles)	3
Economics 301 (Geography)	3
Business 127 (Shorthand)	3
Business 129 (Typing)	3
#Phys. Ed. 201 or 211	—
	15
Psychology 201 (General)	3
Art 130 (Appreciation)	3
Business 128 (Shorthand)	3
Business 130 (Typing)	3
#Phys. Ed. 202 or 212	—
	15

JUNIOR YEAR

Business 227 (Shorthand)	3	Business 228 (Shorthand)	3
Business 229 (Typing)	3	Business 230 (Typing)	3
Business 219 (Grammar)	3	Business 205 (Correspondence) 3	
Philosophy 207 (Introduction) 3		Business 223 (Office Machines) 3	
Science 101 (Physical)	3	Science 102 (Biological)	3
	—		—
	15		15

SENIOR YEAR

Business 221 (Office Practice) 3	Business 222 (Office Practice)	3	
Business 302 (Law)	4	Business 303 (Law)	4
Political Science 201 (American Gov't.)	3	Sociology 201 (Problems)	3
Electives	6	Electives	6
	—		—
	16		16

No academic credit.

MEDICAL TECHNOLOGY CURRICULUM

(Formerly listed as Laboratory Technology)

It is the aim of this course to supply an academic background of the basic science courses and then a year of practical work in the field, leading to the B.S. degree in Medical Technology and greater professional opportunities in the medical and hospital laboratories.

At least 16 semester hours in Biology are required, including General Biology (8 semester hours). Additional courses may be chosen from the following: Microbiology, Physiology, Anatomy, Embryology, and Histology.

In Chemistry General Inorganic Chemistry (8 semester hours), and Quantitative Analysis (4 semester hours) are required. Organic Chemistry and Bio-Chemistry are recommended but not required.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Chemistry 101 (General)	4	Chemistry 102 (General)	4
Biology 101 (General)	4	Biology 102 (General)	4
History 111 or 201		History 112 or 202	
(W. Civil. or U. S.)	3	(W. Civil. or U. S.)	3
#Phys. Ed. 101 or 111		#Phys. Ed. 102 or 112	
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SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3
*Biology	*Biology
4	4
Religion 101 (Life of Jesus) 3	Chemistry 203 (Quantitative) 4
Electives	Electives
6	6
#Phys. Ed. 201 or 211	#Phys. Ed. 202 or 212
	<hr style="width: 50px; margin: 0 auto;"/> 16
	<hr style="width: 50px; margin: 0 auto;"/> 17

* Select from these courses: Biology 103, 104, 201, 202, 302.

JUNIOR YEAR

The junior year will consist of an internship of a full calendar year at a hospital accredited in the Registry of Medical Technologists of the American Society of Clinical Pathologists. The College will not give credit for the year unless it is informed that the student has successfully passed the examinations given by The Registry of Medical Technologists of the American Society of Clinical Pathologists. The College will not charge any tuition for the work of the junior year.

SENIOR YEAR

Political Science 201 (Am. G't.) 3	Political Science 202
Psychology 201 (General)	(State and Local)
3	3
Art 130 (Appreciation)	Music 130 (Appreciation)
3	3
Sociology 101 (Introduction) .. 3	Philosophy 207 (Introduction) .. 3
Electives	Electives
3	6
	<hr style="width: 50px; margin: 0 auto;"/> 15
	<hr style="width: 50px; margin: 0 auto;"/> 16

No academic credit is granted for physical education.

Terminal course includes first two years.

CHURCH WORK

The course, which leads to the B.S. degree, is organized to insure a depth and breadth of general cultural education, the essentials of religious education, and a major in a field of desired specialization. Majors, consisting of at least 24 hours, will be selected in Music, Social Science, or Secretarial Science.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
History 111 or 201 (W. Civil. or U. S.)	3	History 112 or 202 (W. Civil. or U. S.)	3
Science 101 (Physical)	3	Science 102 (Biological)	3
Speech 105 or 106 (Fundamentals or Phon.)	3	Speech 205 (Public Speaking)	3
Religion 101 (Life of Jesus)	3	Music 130 (Appreciation)	3
#Phys. Ed. 101 or 111	—	#Phys. Ed. 102 or 112	—
	15		15

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	English 202 or 204 (Literature) 3
Edu. 203 (Prin. of Teach.)	3
Soc. 201 (Problems)	3
Phil. 207 (Introduction)	3
Religion 206 (Lit. of Old Test.) ..	3
Business 129 (Typing)	3
Business 130 (Typing)	3
Major Elective	3
Major Elective	3
#Phys. Ed. 201 or 211	—
#Phys. Ed. 202 or 212	—
	15
	15

JUNIOR YEAR

Phil. 210 (Phil. of Religion)	3	Art 130 (Appreciation)	3
Soc. 202 (Marriage and Family) 3		Soc. 302 (Edu. Soc.)	3
Psy. 201 (General)	3	Psy. 303 (Mental Hygiene)	3
*Elective	3	*Elective	3
Major Elective	3	Major Elective	3
	—		—
	15		15

SENIOR YEAR

Religion 209 (Rel. Edu.)	3	Rel. 210 (Edu. Work of Church) 3	
Church Work 401 (Train. Exp.) 3		Ch. Work 402 (Training Exp.) ..	3
Phil. 303 (Ethics)	3	*Elective	3
Major Elective	6	Major Elective	6
	—		—
	15		15

No academic credits are granted for physical education.

* Suggested electives: Education 303; English 317; Psy. 308; Psy. 309; Religion 306; Sociology 211; Speech 212 or 306.

TERMINAL COURSES

ART

The art course is designed primarily to give the best possible foundation for further study in any of the specialized fields of art; to give thorough training in artistic creation; and to guide in developing the power of discrimination in general aesthetic appreciation.

For a certificate of achievement a minimum of thirty hours in art subjects is required plus a sufficient number of academic hours to make a total of 60.

The department reserves the right to retain representative examples of student work for purposes of exhibition. This is an acknowledgement of superior ability and assists the department in maintaining a high standard in its classes.

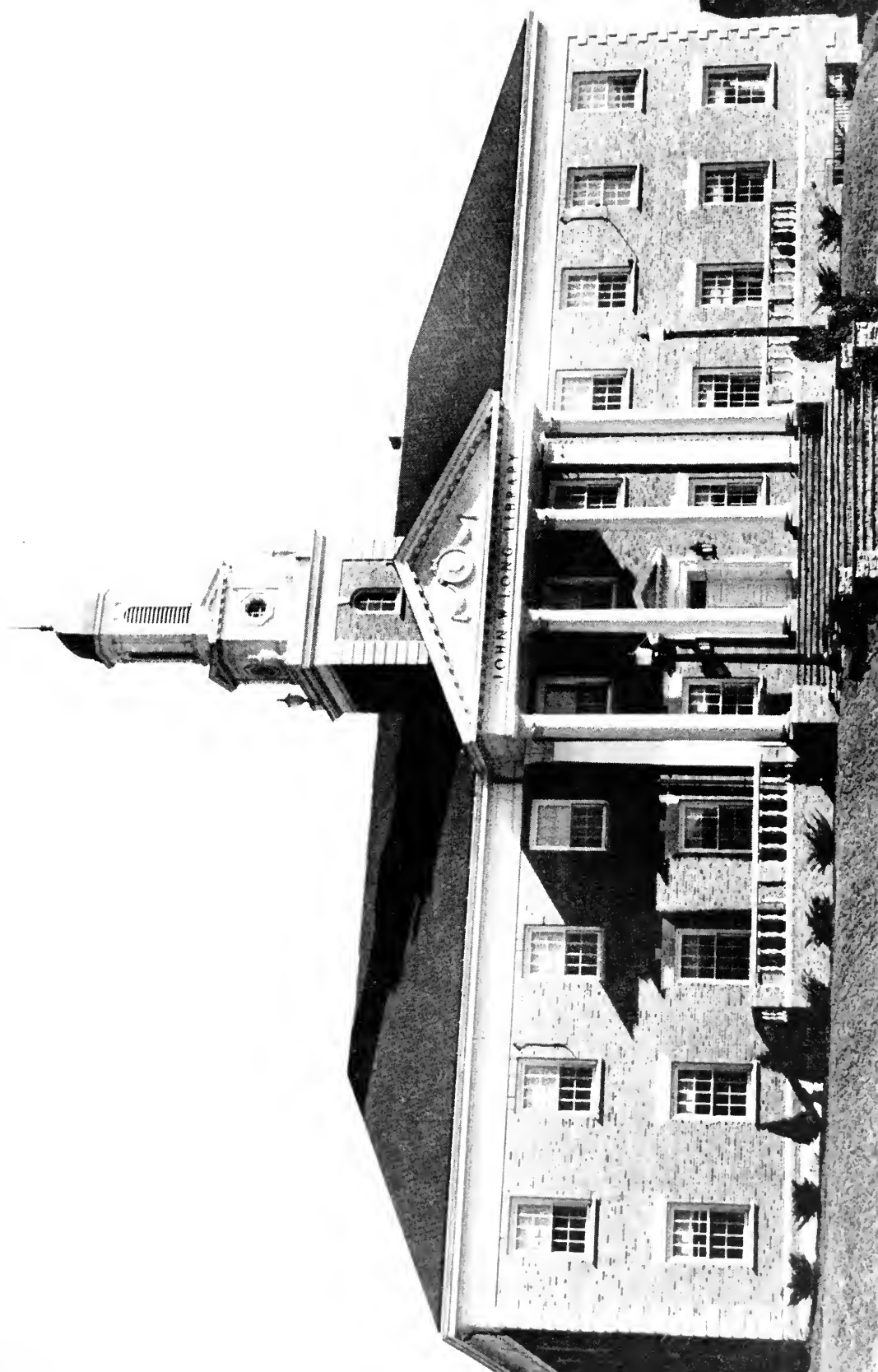
FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Art 141 (Design I)	3	Art 142 (Design I)	3
Art 143 (Drawing I)	3	Art 144 (Drawing I)	3
Art 245 (Painting I)	3	Art 246 (Painting I)	3
Art 231 (Commercial Art)	3	Art 232 (Commercial Art)	3
#Phys. Ed. 101 or 111		#Phys. Ed. 102 or 112	
	—		—
	15		15

SOPHOMORE YEAR

Art 241 (Advanced Design)	3	Art 242 (Advanced Design)	3
Art 130 (Appreciation)	3	Art 407 (American Art)	3
Art 341 (Applied Design)	3	Art 342 (Applied Design)	3
Art 243 (Painting II)	3	Art 244 (Painting I)	3
Religion 101	3	Academic Elective	3
#Phys. Ed. 201 or 211		#Phys. Ed. 202 or 212	
	—		—
	15		15

No academic credit.



JOHN W. LONG LIBRARY

MUSIC

The two-year Music Course is open to those who are regularly enrolled at Lycoming College. Other students attending Lycoming who are not registered in the Music Course or the Music Major, A. B. degree curriculum, may enroll for music courses with the consent of the Dean of the College and the Department Chairman.

Musical excellence in both the fields of fine technical musicianship and artistic performance is sought in every branch of musical work at Lycoming. Special attention is called to the advantages of the thorough-going fundamental training afforded students who desire to matriculate in a regular professional school of music. Class and public recitals are held frequently to afford students the opportunity to achieve poise in performance. Instrumental and vocal ensemble work hold an important place in the curriculum and are therefore required. Class sessions and private lessons are taught in conformity to the college calendar, and absences are dealt with in accordance with the college policy.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
Music 121 (Theory)	4	Music 122 (Theory)	4
Applied Music	1½	Applied Music	1½
Ensemble	½	Ensemble	½
Music 130 (Appreciation)	3	Religion 101 (Life of Jesus) ..	3
English 101 (Composition)	3	English 102 (Composition)	3
*Academic Elective	3	*Academic Elective	3
#Physical Education		#Physical Education	
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15		15

SOPHOMORE YEAR

Music 221 (Theory)	4	Music 222 (Theory)	4
Applied Music	1½	Applied Music	1½
Ensemble	½	Ensemble	½
Music 311 (History)	3	†Music Elective	2
English 201 or 203 (Literature) ..	3	English 202 or 204 (Lit.)	3
Academic Elective	3	Academic Elective	4
#Physical Education		#Physical Education	
	<hr style="width: 50%; margin: 0 auto;"/>		<hr style="width: 50%; margin: 0 auto;"/>
	15		15

* Foreign language for voice majors.

† Selected from Music 312, 313, 314, 315, 316, and 317.

No academic credit.

SECRETARIAL SCIENCE

Lycoming offers a two-year course in Secretarial Science. This course provides students with the opportunity to develop office skills required for secretarial work.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
*Business 127 (Shorthand)	3	*Business 128 (Shorthand)	3
*Business 129 (Typing)	3	*Business 130 (Typing)	3
Economics 201 (Principles)	3	Business 112 (Computations)	3
Business 101 (Accounting)	3	Religion 101 (Life of Jesus)	3
#Phys. Ed. 111	—	#Phys. Ed. 112	—
	15		15

SOPHOMORE YEAR

Business 219 (Grammar)	3	Business 205 (Correspondence) 3	
Business 227 (Shorthand)	3	Business 228 (Shorthand)	3
Business 229 (Typing)	3	Business 230 (Typing)	3
Business 302 (Law)	4	Business 303 (Law)	4
Business 223 (Office Machines) 3		Business 222 (Office Practice)	3
#Phys. Ed. 211	—	#Phys. Ed. 212	—
	16		16

* Examinations may be taken during the freshman orientation week to prove competence in either or both of the subjects by students who have completed high school courses with high grades. If test results are satisfactory, electives may be substituted.

No academic credit.

MEDICAL SECRETARIAL

The Medical Secretarial Course offers students a basic science background in addition to secretarial skills. This course is especially desirable for those preparing for Medical or Dental Secretarial positions.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Chemistry 103 (Applied)	4	Biology 102 (General)	4
*Business 127 (Shorthand)	3	*Business 128 (Shorthand)	3
*Business 129 (Typing)	3	*Business 130 (Typing)	3
Religion 101 (Life of Jesus)	3	Business 214 (Med. Short.)	1
#Phys. Ed. 111		Psychology 201 (General)	3
		#Phys. Ed. 112	
	—		—
	16		17

SOPHOMORE YEAR

Business 101 (Accounting)	3	Business 205 (Corres.)	3
Business 243 (Med. Off. Tech.)	1½	Business 244 (Med. Off. Tech.)	1½
Business 219 (Grammar)	3	Business 234 (Med. Trans.)	3
Business 227 (Shorthand)	3	Business 222 (Office Practice)	3
Business 229 (Typing)	3	Biology 104 (Anat. and Phys.)	3
Business 214 (Med. Short.)	1	Sociology 201 (Problems)	3
#Phys. Ed. 211		#Phys. Ed. 212	
	—		—
	14½		16½

* Examinations may be taken during the freshman orientation week to prove competence in either or both of the subjects by students who have completed high school courses with high grades. If test results are satisfactory, electives may be substituted.

No academic credit.

TWO-YEAR COURSE

PRE-ENGINEERING

This course is designed to give the student basic pre-professional courses in the field of engineering. The course recommended below is for all engineering students except chemical engineers. Chemical engineers will consult with the Director of Admissions or Head of the Science Division.

To meet requirements of Engineering schools, the student must carry more than the normal load each semester.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
Chemistry 101 (General)	4	Chemistry 102 (General)	4
Mathematics 101 (Algebra)	3	Mathematics 201	
Mathematics 102 (Trig.)	3	(Analytic Geom.)	4
Drawing 101 (Engineering)	3	Physics 101 (General)	5
#Phys. Ed. 101		Drawing 103	
		(Descriptive Geom.)	3
		#Phys. Ed. 102	
	—		—
	16		19

SOPHOMORE YEAR

English 201 or 203 (Literature) 3	Speech 105 or 106	3
Economics 201 (Principles)	History 202 (United States)	3
Mathematics 202 (Diff. Calc'us) 4	Mathematics 301	
Physics 102 (General)	(Integral Calculus)	4
Religion 101 (Life of Jesus) 3	Physics 201 (Statics)	3
#Phys. Ed. 201	Electives	6
	#Phys. Ed. 202	
	—	—
	18	19

No academic credit.

COOPERATIVE PROGRAMS OF COLLEGIATE EDUCATION

ENGINEERING

Lycoming College furnishes a program for engineering students which combines the advantages of the smaller liberal arts college with the training to be secured at a large engineering school. By arrangement with Bucknell University, and The Pennsylvania State University, the College offers a five-year course, the first three years of which are spent at Lycoming, the final two at Bucknell or The Pennsylvania State University. A student may secure a degree in liberal arts and a degree in engineering by this program.

The student's three years at Lycoming include prescribed work in English, foreign language, chemistry, mathematics, and physics. At Bucknell University, or The Pennsylvania State University, the student will specialize in his chosen field in engineering or applied science for the remaining two years.

Candidates for this program should indicate to the Director of Admissions of Lycoming College that they wish to apply for the cooperative program and specify the institution where they wish to complete their engineering work.

Students preparing for chemical engineering at Bucknell will rearrange schedule and study Chemistry 201 and 205 in place of Physics 201, 202, and 207.

FRESHMAN YEAR			
<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
Mathematics 101 (Algebra)	3	Mathematics 201 (Anal. Geom.)	3
Mathematics 102 (Trig.)	3	Physics 101 (General)	5
*Music 130 (Appreciation)	3	Drawing 103 (Descript. Geom.)	3
Drawing 101 (Engineering Dr.)	3	#Phys. Ed. 102	—
#Phys. Ed. 101	—		17
	18		

SOPHOMORE YEAR			
English 201 or 203 (Literature)	3	English 202 or 204 (Literature)	3
†Foreign Language	3	†Foreign Language	3
History 111 (W. Civilization)....	3	History 112 (W. Civilization)	3
Mathematics 202 (Diff. Cal.)	4	Mathematics 301 (Int. Calculus)	4
Physics 102 (General)	5	Physics 201 (Statics)	3
#Phys. Ed. 201	—	#Phys. Ed. 202	—
	18		16

JUNIOR YEAR			
Psychology 201 (General)	3	Philosophy 207 (Introduction)....	3
History 201 (United States)	3	History 202 (United States)	3
*Art 130 (Appreciation)	3	Religion 101 (Life of Jesus)	3
Chemistry 101 (General)	4	Chemistry 102 (General)	4
Physics 202 (Strength of Mat.)	3	Physics 102 (Top Survey)	3
Economics 201 (Principles)	3	Math. or Physics Electives	3
	19		19

* Or other subjects in this field.

† French, German, or Spanish may be elected.

No academic credit.

FORESTRY

Lycoming College furnishes a program for forestry students which combines a strong liberal arts and science background with professional training in forestry at the Duke School of Forestry, Duke University, Durham, North Carolina.

The program as established is of five years duration. A student electing to pursue this program of study will spend three years at Lycoming where he will meet the liberal arts degree requirements, including such subjects as English, foreign language, biology, chemistry, physics, mathematics, and economics.

Upon the satisfactory completion of these three years' work at Lycoming, the student will apply for admission to the Duke School of Forestry for one summer and two years of training in forestry. At the end of his first year at Duke, his record will be sent to Lycoming when, if the work is satisfactory for this fourth year in college, the bachelor of arts degree will be awarded. Upon the satisfactory completion of the second year in the forestry school, the professional degree, Master of Forestry, will be awarded by Duke.

Candidates for this program should indicate their intentions to the Director of Admissions when applying for admission.

FRESHMAN YEAR			
<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
English 101 (Composition)	3	English 102 (Composition)	3
†Foreign Language	3	†Foreign Language	3
Mathematics 101 (Algebra)	3	Physics 101 (General)	5
Mathematics 102 (Trig.)	3	*Music 130 (Appreciation)	3
History 111 (W. Civilization)....	3	History 112 (W. Civilization)	3
#Phys. Ed. 101	—	#Phys. Ed. 102	—
	15		17

SOPHOMORE YEAR			
English 201 or 203 (Literature) 3		English 202 or 204 (Literature) 3	
†Foreign Language	3	†Foreign Language	3
Physics 102 (General)	5	Mathematics 201 (Anal. Geom.) 4	
Biology 101 (Botany)	4	Biology 102 (Zoology)	4
History 201 (United States)	3	History 202 (United States) ...	3
#Phys. Ed. 201	—	#Phys. Ed. 202	—
	18		17

JUNIOR YEAR			
Chemistry 101 (General)	4	Chemistry 102 (General)	4
Economics 201 (Principles)	3	Philosophy 207 (Introduction) 3	
Political Science 201 (Am. G't.) 3		*Art 130 (Appreciation)	3
Psychology 201 (General)	3	Religion 101 (Life of Jesus)	3
Mathematics 202 (Diff. Cal.)	4	Physics 207 (Top. Survey)	3
	17		16

* Or other subjects in this field.

† French, German, or Spanish may be elected.

No academic credit.

COURSES OF INSTRUCTION

The courses of instruction are arranged in four divisions and a department of education.

DIVISIONS

GROUP I. HUMANITIES.

Art, English, French, German, Greek, Music, Philosophy, Religion, Spanish, Speech.

GROUP II. SOCIAL SCIENCE.

Economics, History, Political Science, Psychology, Sociology.

GROUP III. SCIENCE.

Biology, Chemistry, Drawing, Mathematics, Physical Education, Physics, Science.

GROUP IV. BUSINESS ADMINISTRATION.

Business Administration, Economics, Secretarial Science.

In a detailed description of the courses that follow, the courses of instruction are listed alphabetically by subject matter for the convenience of the reader.

Courses numbered in the one hundreds are commonly first year subjects; those in the two hundreds are second year subjects; the three hundreds are third year or junior subjects; and the four hundreds are fourth year or senior subjects.

The college reserves the right to withdraw any course for which there are fewer than ten students enrolled.

ART

A major in Art consists of 30 hours of which 9 hours are in art theory.

130. APPRECIATION OF ART. A general introduction to the history and appreciation of Western Art, from Prehistoric Art in Europe to Contemporary Art. Films and slides will be used to illustrate the lectures. Three class periods each week.

Three hours credit.

141-142. DESIGN I. An introduction to the basic principles of design. Special emphasis will be given to developing the student's creative ability by means of problems in two-dimensional and three-dimensional design involving line, form, tone, volume, and space. Considerable emphasis will be placed on color. Six class periods each week.

Three hours credit each semester.

143-144. DRAWING I. The course is designed to acquaint the student with various drawing media, as he creates drawings of still-life, landscape, and figure subjects. Six class periods each week.

Three hours credit each semester.

231-232. COMMERCIAL ART. Study of letter forms and practice in the execution of freehand pen and brush letters. Study of good spacing and layout in advertising technique. Six class periods each week.

Three hours credit each semester.

241-242. ADVANCED DESIGN. Design for industry—designing for a definite purpose—package, textile, poster and linoleum design, with special emphasis on the technical requirements which the designer would find it necessary to observe. Six class periods each week.

Prerequisite Art 141-142.

Three hours credit each semester.

243-244. DRAWING II. Continuation of Art 143-144. Six class periods each week.

Three hours credit each semester.

245-246. PAINTING I. The purpose of this course is to acquaint the student with various painting media, such as oil, watercolor, and gouache. The student will be encouraged to create and develop his own ideas in his search for a suitable technique and method of expressing himself. Six class periods each week.

Three hours credit each semester.

311-342. APPLIED DESIGN. The contemporary spirit will be fostered as the student engages in various crafts, such as blockprinting, gesso, and silk-screen printing. Six class periods each week.

Three hours credit each semester.

345-346. PAINTING II. A continuation of Art 245-246. Six class periods each week.

Three hours credit each semester.

407. AMERICAN ART. The visual arts in American life from the seventeenth century to the present, with special emphasis on Pennsylvania's contribution to the development of American Art. Slides and films will be used to illustrate the lectures. Visits to the local museum and other places of art interest in the area. Three class periods each week.

Three hours credit.

409. CONTEMPORARY ART. The contemporary idiom in the visual arts. Divergent trends as revealed by a study of some of the well-known contemporary artists, their lives, and works. Emphasis on the men who have made a distinct contribution to the origin and development of new ideas in the field of art today. Films and slides will be used to illustrate the lectures. Three class periods each week.

Three hours credit.

445-446. PAINTING III. Continuation of Art 345-346. Six class periods each week.

Three hours credit each semester.

BIOLOGY

24 hours of biology are required for a major in this field.

101. GENERAL BIOLOGY (Botany). An introduction to the principles of biology, including a systemic study of characteristic types of plants. Two hours lecture and recitation and two two-hour laboratory periods each week.

Four hours credit.

102. GENERAL BIOLOGY (Zoology). An introduction to the principles of biology, including a systemic study of characteristic types of animals. Two hours lecture and recitation and two two-hour laboratory periods each week.

Four hours credit.

103. MICROBIOLOGY. This course emphasizes the study of microorganisms that affect mankind, especially those that cause diseases. Laboratory exercises deal with elementary bacteriological techniques and plant and animal parasites. Three hours lecture and recitation and one two-hour laboratory period each week.

Four hours credit.

104. ANATOMY AND PHYSIOLOGY. A basic knowledge of the skeletal, circulatory, digestive, nervous, and excretory systems of the human body.

Three hours credit.

107. BOTANY. More specialized and advanced study of plants than is offered in General Biology. Two hours lecture and recitation and two hours laboratory each week.

Three hours credit.

108. BOTANY. A study of the classification of plants and their distribution. Two hours lecture and recitation and two hours laboratory each week.

Three hours credit.

114. ANATOMY AND PHYSIOLOGY LABORATORY. Three hours laboratory each week. Biology 104 is a corequisite.

One hour credit.

201-202. COMPARATIVE VERTEBRATE ANATOMY. Deals with dissections of representative vertebrates, including the cat. Two hours lecture and recitation and two two-hour laboratory periods each week.

Prerequisite, Biology 101-102.

Four hours credit each semester.

301. PHYSIOLOGY. A study of the physiological processes of the human body. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 201-202.

Four hours credit.

302. VERTEBRATE EMBRYOLOGY. The study of the development of an amphibian, the chick, and a mammal, from fertilization of the egg to fully formed embryo. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 101-102.

Four hours credit.

401. HISTOLOGY. The study of cells and tissues of the human body. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 201-202.

Four hours credit.

402. GENETICS. A study of the principles of inheritance and their application to human biology and to the improvement of plants and animals.

Prerequisite, Biology 101-102.

Three hours credit.

415-416. **STUDIES IN BIOLOGY.** Conferences, oral and written reports on selected topics designed to round out a student's knowledge of Biology. Limited to qualified majors.

Four hours credit each semester.

BUSINESS ADMINISTRATION

Majors of 24 hours each are outlined on pages 59, 60 and 61.

101-102. **ELEMENTARY ACCOUNTING.** An introductory course in which no prior knowledge of accounting is assumed. The course introduces the theory of balance sheet; problems of classification and interpretation of accounts; preparation of financial statements; and accounting for single proprietorship, partnership and corporation. Manufacturing accounts are also presented. Two hours lecture and one two-hour laboratory period each week.

Three hours credit each semester.

103. **PRINCIPLES OF BUSINESS.** This course is designed to show the student how each division of a business enterprise is dependent upon other divisions and how the various functions are unified and co-ordinated by competent management. It treats briefly but thoroughly such inter-related business functions as financing, management, purchasing, advertising, cost accounting, selling, merchandising, and labor control, thus providing the student with an excellent survey of business functions before approaching specialized work.

Three hours credit.

104. **AMERICAN ECONOMIC HISTORY.** This course is designed to show the student the picture of American economy. Developments in the major sub-divisions of our economic life have been integrated by giving specific attention to measuring the adaptation and performance of the economy as a whole.

Three hours credit.

110. **BUSINESS MATHEMATICS.** Designed primarily for students in the curriculum of Business Administration. Review of elementary algebra, linear and quadratic functions, logarithms, progressions, permutations and combinations, and the elementary theory of probability. Commercial applications.

Three hours credit.

111. **BUSINESS STATISTICS.** An introduction to the elementary theory of statistical analysis with applications. Central tendency, dispersion, skewness, trends, correlation, and index numbers.

Prerequisite, Business 110.

Three hours credit.

112. BUSINESS COMPUTATIONS. The fundamentals as well as the more advanced aspects of business calculations. Short methods and checks, percentages, interest, depreciation, and other matters usually treated in commercial and business arithmetic.

Three hours credit.

116. SECRETARIAL BOOKKEEPING. A course designed to give vocational training in the principles of bookkeeping to those secretarial students preparing for positions in the offices of attorneys, doctors, lawyers, and other professional people. The fundamental principles of accounting are developed and applied through the medium of practice sets.

Three hours credit.

127-128. ELEMENTARY SHORTHAND. Study of the complete theory of Gregg shorthand by the functional method. Dictation and introduction to transcription. Class meets five times each week.

Three hours credit each semester.

129-130. ELEMENTARY TYPEWRITING. Complete mastery of the touch system of typewriting with emphasis upon attainment of accuracy and speed. Typing of artistic business letters and of other business forms is stressed. Class meets five times each week.

Three hours credit each semester.

205. BUSINESS CORRESPONDENCE. A course designed to teach methods of composing modern business letters. Actual practice in the writing of all major forms of business communications with special attention given to the preparation of application letters and data sheets.

Prerequisite, Business 219.

Three hours credit.

206-207. MONEY AND BANKING. A study of the nature and functions of money; the quantity theory; paper and deposit currency; collection of checks and the thorough study of the bank statement. The Federal Reserve System and its monetary policies; and a study of other contemporary financial institutions.

Prerequisite, Business 102.

Three hours credit each semester.

214. MEDICAL SHORTHAND. The course is designed to develop a good working knowledge of medical terminology which is used in the physician's office, the hospital, the laboratory, and the insurance office. Class meets two times each week.

One hour credit each semester, with a maximum of three hours credit.

215-216. INTERMEDIATE ACCOUNTING. This course carries the fundamentals of accounting presented in Elementary Accounting into the advanced field. It presents an intensive study of accounting statements with a consideration of special analytical accounting procedures and an emphasis upon corporation stock and bond accounts.

Prerequisite, Business 102.

Three hours credit each semester.

219. BUSINESS ENGLISH GRAMMAR. A thorough review of the basic principles of English grammar and punctuation as they relate to clerical data. Rules for spelling and methods of filing will be included.

Three hours credit.

221-222. OFFICE PRACTICE. Designed to give the student actual practice in applying the knowledge and skills which are acquired in the theory course to problems which arise in typical office situations. Two hours a week of practical experience secured in the faculty and administrative offices.

Three hours credit each semester.

223. OFFICE MACHINES. Demonstration by the instructor of the proper techniques for operation of various business machines. Students obtain actual practice in the use of these machines in order to develop skill and speed. Class meets five times each week.

Three hours credit.

227-228. INTERMEDIATE SHORTHAND. Review of theory and the development of speed in the writing and transcribing of Gregg shorthand. Special training to acquire technical vocabularies in the fields of advertising, agriculture, banking, insurance, and law. Class meets five times each week.

Prerequisite, Business 127-128.

Three hours credit each semester.

229-230. INTERMEDIATE TYPEWRITING. Development of speed typewriting with a high degree of accuracy. Instruction and practice in typing all business letters and forms, tabulations, manuscripts, legal documents, Mimeograph stencils and Ditto master sheets. Class meets five times each week.

Prerequisite, Business 129-130.

Three hours credit each semester.

234. MEDICAL TRANSCRIPTION. Designed to give the medical secretarial student practice in dictation and transcription of medical letters, reports, and case histories. Class meets five times each week.

Three hours credit.

243-244. MEDICAL OFFICE TECHNIQUE. Medical ethics, patient psychology, and personal conduct in a medical office are included. The Pathologist and Bacteriologist of Willamsport Hospital provide demonstrations of procedures, First Aid, sterilization and care of instruments, and the maintenance of adequate office records. Observations are made in the hospital of such procedures in actual operation. Designed for the Medical Secretarial Students. During the second semester, actual observation work in a doctor's office acquaints the student with procedures.

One and one-half hours credit each semester.

302. BUSINESS LAW. Lecture course on the fundamentals of the law relating to business transactions: contracts, agency, negotiable instruments.

Four hours credit.

303. BUSINESS LAW. Lecture course on the fundamentals of the law relating to partnerships, corporations, sales, personalty security contracts, guaranty and suretyship, insurance, and real estate.

Four hours credit.

304. CREDITS AND COLLECTIONS. The fundamentals of credit, investigation and analysis of risks, collection plans and policies. The organization of credit and collection agencies is studied.

Prerequisite, Business 102.

Three hours credit.

305. MARKETING. Retail, wholesale, and manufacturing trade channels; types of middlemen and functions; cooperative associations; marketing functions of policies of retailer, wholesaler and manufacturer; produce exchanges and other markets.

Prerequisite, six hours in Business Administration.

Three hours credit.

307. ORGANIZATION AND FINANCIAL MANAGEMENT OF BUSINESS UNITS. This course deals with the financing of business; the sources of capital and financial agencies such as note brokers, mortgage banks, investment bankers, commercial banks and commercial paper houses. An analysis of business promotions, reorganizations, mergers and consolidations, and the manner in which they are financed.

Prerequisite, six hours in Business Administration.

Three hours credit.

308. INVESTMENTS. This course deals with the leading types of investments, tests, investment programs, financial reports, forecasting methods and agencies, stock exchanges, brokerage houses, methods of buying and selling securities, etc. Laboratory work and case studies.

Prerequisite, six hours in Accounting.

Three hours credit.

311-312. COST ACCOUNTING. Methods of accounting for material, labor and factory overhead expenses consumed in manufacturing are introduced. Practice sets are used to illustrate job order and process costing. The recent development of the use of standard costs is introduced and illustrated through problems and a practice set. The application of cost principles to the distributive and administrative functions of a business is also presented.

Prerequisite, Business 216.

Three hours credit each semester.

313. FEDERAL INCOME TAX LAW AND ACCOUNTING. An analysis of the Federal income tax law and its application to individuals, partnerships and corporations. Actual cases, problems and forms are used to illustrate the law and to determine the taxpayer's liability to the government.

Prerequisite, Business 102.

Three hours credit.

341-342. PRINCIPLES OF RETAILING I AND II. Survey of the field of retailing; history and development of different types of stores; advantages and disadvantages of each type; store location, layout, and organization; duties and functions of the different departments; cooperative movements in retailing; selection, training, and supervision of employees.

Three hours credit each semester.

345. RETAIL ADVERTISING AND SALES PROMOTION. Fundamental principles of the science of advertising; advertising media, copy, appeals, layouts, type, illustration, art, psychology; and fundamental principles of sales promotion and coordination of all forms within the organization.

Three hours credit.

346. RETAIL SALESMANSHIP. Fundamentals of efficient selling. Problems affecting the customer and the store; meeting customer needs; preparation and presentation of merchandise manual; sales demonstration. Three hours lecture per week.

Three hours credit.

401. REAL ESTATE. The fundamentals of the real estate business including a study of titles, mortgages, leases, advertising, sale, purchase, development, and management of real estate.

Prerequisite, six hours in Business Administration numbered above 200.

Three hours credit.

402. **INSURANCE.** The fundamentals of fire, marine, health, accident, casualty, and social insurance. Commercial and governmental plans.

Prerequisite, six hours in Business Administration numbered above 200.

Three hours credit.

403. **INSURANCE.** Life insurance and annuities. Fidelity and surety bonds.

Prerequisite, six hours in Business Administration numbered above 200.

Three hours credit.

406. **BANK POLICIES AND PROCEDURES.** This course is designed to afford a more specialized and practical knowledge of banking and related financial institutions. The course will emphasize actual organization and operation of the institution under study. The study will be supplemented by field trips and lectures in the classroom by various operating officers.

Prerequisite, Business 207.

Three hours credit.

423-424. **AUDITING.** This course deals with the science of verifying, analyzing, and interpreting accounts and reports. An audit project is presented, solved and interpreted throughout the year.

Prerequisite, Business 312.

Three hours credit each semester.

425. **C. P. A. PROBLEMS.** This course is intended to meet the needs of those interested in professional accounting and in preparation for Certified Public Accountants Examinations. The problems presented throughout the course are taken from past C. P. A. and American Institute of Accountants examinations and require in their solution a thorough knowledge of the subject matter of prerequisite courses taken.

Prerequisite, Business 312.

Three hours credit.

431. **ADVANCED ACCOUNTING.** This course offers an extended treatment of the functions and applications of accounting for those who wish additional accounting background in preparation for entrance into the accounting profession. It treats such special problems as partnerships and joint venture accounting; installment and consignment sales; branch and home office accounting; corporate combinations; and the preparation of consolidated statements.

Prerequisite, Business 216.

Three hours credit.

433. **CURRENT FEDERAL INCOME TAX LAW PRACTICE.** An advanced course in tax law and accounting, based on analysis and treat-



ment of a large variety of problems encountered in current tax practice. Consideration is given to the tax specialist's approach in choice of forms of business, securities and real-estate sales, family partnerships and excess profit.

Prerequisite, Business 313.

Three hours credit.

441. RETAIL BUYING AND MERCHANDISING. Problems of merchandising. Responsibilities of the buyer; what, when, where and how to buy; types of merchandise, pricing, leased departments, sales planning and merchandise control; importance of volume, mark-up, mark-down, and turnover; emphasis on making a profit; actual store problems.

Three hours credit.

443. RETAIL PERSONNEL MANAGEMENT. Organization and responsibilities of the personnel department: selection, training, welfare work, methods of payment, incentives for better work, morale, personnel problems connected with the retail store.

Three hours credit.

445-446. RETAIL PROBLEMS I AND II. A survey of current issues confronting retail management and examination of the management, merchandising and publicity activities of retail stores. Current trends and differences in store practices are stressed; emphasis is given to governmental regulations, labor, and employee-employer relations. The case method is used extensively in the development of the course.

Three hours credit each semester.

CHEMISTRY

A major in chemistry consists of 32 semester hours of chemistry.

101-102. GENERAL CHEMISTRY. The course comprises a systematic study of the fundamental laws and theories of chemistry in connection with the most important metallic and non-metallic elements and their compounds. Two hours lecture and two two-hour laboratory periods each week.

Four hours credit each semester.

103. APPLIED CHEMISTRY. A brief survey of general chemistry designed to prepare the student for an understanding of some of the many applications of chemistry to the home, to nutrition, and to nursing. Three hours lecture and one two-hour laboratory period each week.

Four hours credit.

201. **QUALITATIVE ANALYSIS.** An elementary course in the study of modern theories of solutions of electrolytes and their applications to cation and anion analysis. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit.

202-203. **QUANTITATIVE ANALYSIS.** A presentation of the fundamental methods of elementary gravimetric and volumetric analysis together with practice in laboratory techniques and calculations of these methods. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit each semester.

205. **QUANTITATIVE ANALYSIS.** A one semester course in simple quantitative analysis given more briefly than course 202-203. The course is designed chiefly for laboratory technician students. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit.

301-302. **ORGANIC CHEMISTRY.** A systematic study of the compounds of carbon including both aliphatic and aromatic series. The laboratory work introduces the student to simple fundamental methods of organic synthesis. Three hours lecture and one four-hour laboratory period each week.

Four hours credit each semester.

401-402. **PHYSICAL CHEMISTRY.** A study of the fundamental principles of theoretical chemistry and their applications. The laboratory work includes techniques in physico-chemical measurements. Three hours lecture and one four-hour laboratory period each week.

Four hours credit each semester.

405. **BIOCHEMISTRY.** A general course dealing with the chemical composition and metabolic processes and significance of carbohydrates, lipids, proteins, and biocatalysts in living tissues. Three hours lecture and one four-hour laboratory period each week.

Prerequisites, Chemistry 301-302, Biology 101-102.

Four hours credit.

CHURCH WORK

401-402. **TRAINING EXPERIENCE.** A laboratory course with faculty supervision of student work in churches of the Williamsport area. Careful coordination with the pastor and the faculty advisor is maintained. One hour instruction and a minimum of six hours practical work per week.

Three hours credit each semester.

DRAWING

101. **ENGINEERING DRAWING.** The principles of orthographic projection, axiometric drawing, and perspective through instrumental and free hand exercises. Vertical lettering, free hand sketches, uses of drawing instruments, drafting room practice in conventional representations, practice in pencil and ink tracing, sections, theory of dimensioning, detail and assembly drawings and the reading of working drawings. Class meets three two-hour laboratory periods each week.

Three hours credit.

103. **DESCRIPTIVE GEOMETRY.** Graphical solution of the more advanced space problems, both theoretical and practical and those encountered in engineering practice; practice in inclined free hand lettering. Problems involve the measurement of angles and distances and the generation of various surfaces, together with their sections, developments and intersections. In each project visualization and analysis lead to a logical and efficient solution. Class meets three two-hour laboratory periods each week.

Three hours credit.

ECONOMICS

Twenty-four hours of economics are required for a major in this field.

201-202. **PRINCIPLES AND PROBLEMS OF ECONOMICS.** A study of the organization of the economic system and principles and problems that govern economic activity. Major topics covered include: production, consumption, exchange, distribution, risks of enterprise, banking, international trade, profits, rent, wages and social reforms.

Three hours credit each semester.

MONEY AND BANKING. (See Business Administration 206-207).

301-302. **ECONOMIC GEOGRAPHY.** A general survey course, showing the relation of physical environment to man's economic and cultural achievements. Emphasis is placed on the part the United States plays in the occupations of man, as contrasted to other producing areas of the world.

Three hours credit each semester.

304. **CONSUMER ECONOMICS.** The place of the consumer in the economic system, forces back of consumer demands, governmental controls to aid the consumer, consumer economic education and private aids.

Prerequisite, six hours in Economics.

Three hours credit.

305. LABOR PROBLEMS. A study of the American labor movement and the position of the worker in modern industrial society. Unemployment, wages, hours, child labor, woman in industry, the aged worker, unions, and industrial peace are among the problems considered.

Prerequisite, six hours in Economics.

Three hours credit.

306. LABOR LEGISLATION. A continuation of labor problems. Labor and the courts; federal regulation of capital-labor relations; the work of federal labor boards.

Prerequisite, Economics 305.

Three hours credit.

INVESTMENTS. (See Business Administration 308).

402. TRANSPORTATION. Problems and policies of railroads, busses, inland waterways, air and ocean transportation. The economic importance and significance of transportation are emphasized.

Prerequisite, six hours in Economics.

Three hours credit.

403. HISTORY OF ECONOMIC THOUGHT. An advanced course which deals with the origin, growth and significance of economic institutions with emphasis upon those of Europe and the United States.

Prerequisite, six hours in Economics numbered above 200.

Three hours credit.

404. ADVANCED ECONOMICS. Intended to co-ordinate the work of the special courses taken in the field of economics. More comprehensive analyses of economic forces than were taken in the elementary economic courses.

Prerequisite, Economics 201-202 and six hours in Economics numbered above 200.

Three hours credit.

405. PUBLIC FINANCE. Public revenue and expenditures; preparation of budgets; public taxation; public borrowing.

Prerequisite, six hours in Business Administration numbered above 200 and Economics 201-202.

Three hours credit.

406. PRINCIPLES OF PUBLIC UTILITIES. Public utility characteristics, organization, management, financing, combination, and accounting; regulation, valuation, and rate-making are stressed.

Prerequisite, Economics 201-202.

Three hours credit.

409. **THE BUSINESS CYCLE.** History and general nature of the business cycle; its causes and its relation to the economic process as a whole; possible remedies, public and private; source materials and current literature.

Prerequisite, Economics 202.

Three hours credit.

411. **SOCIAL INSURANCE.** An analysis of the extent and incidence of involuntary unemployment, industrial accidents, occupational diseases, sickness resulting in absenteeism, other hazards of working groups, an appraisal of the principles involved in devising programs of protection against them.

Prerequisite, Economics 202.

Three hours credit.

EDUCATION

201. **INTRODUCTION TO EDUCATION.** This basic course introduces the student to the social values of public education, the changing conception of the purposes of education, the problems facing the schools; and to fields of professional activity. Required of all students desiring certification for teaching.

Three hours credit.

203. **PRINCIPLES OF TEACHING.** This course is designed to introduce the work of classroom teachers, direction of learning, development of ability to use common procedures in teaching, planning instruction, effective teaching qualities.

Three hours credit.

301. **PROBLEMS OF SECONDARY EDUCATION.** Designed to aid the student in dealing with such problems as the place and function of the secondary school; the relation of secondary education to elementary and higher education; the organization, administration, curricular and extra-curricular activities of the secondary school.

Three hours credit.

EDUCATIONAL SOCIOLOGY. (See Sociology 302).

303. **AUDIO-VISUAL EDUCATION.** A study of the value, design, construction, and application of the visual and auditory aids to learning. Practical experience in the handling of audio-visual equipment and materials is provided.

Three hours credit.

304. **TECHNIQUES AND METHODS OF TEACHING.** The course deals with a study of materials and methods of teaching with emphasis on the student's major. Stress is placed on the selection of suitable curricular materials. Students will teach demonstration lessons in the presence of the instructor and the members of the class.

Three hours credit.

305. **EDUCATIONAL TESTS AND MEASUREMENTS.** A study of the history and philosophy of measurements in education with the construction, use, and interpretation of educational, standardized, and classroom tests.

Three hours credit.

EDUCATIONAL PSYCHOLOGY. (See Psychology 309).

401. **PRACTICE TEACHING.** Teaching experience in a junior or senior high school in the greater Williamsport area; observation of the teaching of veteran teachers; gradual acceptance of the full responsibilities of the teacher.

Prerequisite, nine hours credit, including Education 201 and Psychology 309.

An average of at least 1.0 in all college work is prerequisite for student teaching.

Six to nine hours credit.

ENGLISH

A major in English consists of a minimum of 30 semester hours in courses offered by the department; at least 6 hours must be in American Literature and at least 15 hours in courses numbered 300 and above.

101-102. **COMPOSITION.** The two-fold purpose is to teach the student to read good prose of ordinary difficulty, both critically and appreciatively, and to organize his ideas in logical, connected discourse.

Three hours credit each semester.

201. **SURVEY OF ENGLISH LITERATURE.** A study of the major movements and authors from their beginnings to 1798.

Three hours credit.

202. **SURVEY OF ENGLISH LITERATURE.** A study of the major movements and authors from 1798 to the contemporary period.

Three hours credit.

203. **HISTORY OF AMERICAN LITERATURE.** A survey of our literature from the colonial period to 1860.

Three hours credit.

204. HISTORY OF AMERICAN LITERATURE. A survey of our literature from 1860 to the contemporary period.

Three hours credit.

211. FUNDAMENTALS OF JOURNALISM. Introductory course in practical newspaper work.

Three hours credit.

Not offered 1954-1955.

301. ROMANTIC MOVEMENT. A study in the English Romantic poets, Wordsworth to Keats.

Three hours credit.

303. VICTORIAN POETRY. The major poets from Tennyson to Housman.

Three hours credit.

Not offered 1954-1955.

304. VICTORIAN PROSE. Emphasis is placed on the attitudes of the leading essayists toward the many and varied problems of the Victorian Age.

Three hours credit.

Not offered 1954-1955.

311. SHAKESPEARE. A study of representative plays, as to content, dramatic quality, diction. Outside readings.

Three hours credit.

313-314. HISTORY AND APPRECIATION OF THE DRAMA. A study of the drama from the Greek beginnings to the present day, as to types, subject matter, and technical structure.

Three hours credit each semester.

316. CONTEMPORARY LITERATURE. A study of the major trends in American and English Literature of the recent past.

Three hours credit.

317. THE BIBLE AS LITERATURE. A study of the Psalms, the Book of Job, and other selected portions of the Bible with special emphasis upon their literary value. The spiritual significance of this literature of the Old Testament will be emphasized.

Three hours credit.

320. ADVANCED COMPOSITION. Consent of the instructor; limited to 15 students.

Three hours credit.

(At least junior standing and 9 hours in English above the freshman year required for 400 courses).

401. HISTORY OF THE ENGLISH NOVEL. From Defoe to Jane Austen.

Three hours credit.

402. HISTORY OF THE ENGLISH NOVEL. From Dickens to Galsworthy.

Three hours credit.

404. AMERICAN REGIONAL FICTION. Study in development of local color and regional literature after the Civil War.

Three hours credit.

410. HISTORY OF THE ENGLISH LANGUAGE. Some knowledge of Latin and one modern language will prove helpful.

Three hours credit.

415-416. STUDIES IN LITERATURE. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of English and American Literature. Limited to qualified majors.

Three hours credit each semester.

FRENCH

A major in French consists of 24 hours beyond French 12.

11-12. BEGINNING. Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

101-102. INTERMEDIATE. Review of grammar. Study of modern texts; practice in conversation and composition. Reports on outside reading.

Prerequisite, French 11-12 or equivalent.

Three hours credit each semester.

201-202. THIRD-YEAR FRENCH. Reading and oral reproduction of nineteenth and twentieth century drama. Outside reading and written reports. One-third of the time is devoted to further study of grammar and of idioms, with special emphasis on writing in French.

Prerequisite, French 101-102 or equivalent.

Three hours credit each semester.

301-302. ADVANCED GRAMMAR. Thorough study of grammar. Cours de style: French "from the inside," practice in composition and development of literary writing.

Prerequisite, French 201-202 or equivalent.

Three hours credit each semester.

303-304. **PHONETICS AND CONVERSATION.** Study of the phonetic symbols for a better pronunciation. Conversation based on events of Paris, customs, manners, and politics of France.

Three hours credit each semester.

351-352. **MODERN DRAMA.** Study of the principal dramatic movements of the nineteenth and twentieth centuries, beginning with Victor Hugo and the Romantic School.

Prerequisite, French 201-202 or equivalent.

Three hours credit each semester.

401-402. **SURVEY.** A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Introduction to graduate methods of research and preparation. Required of all majors.

Prerequisite, French 301-302 or equivalent.

Three hours credit each semester.

415-416. **STUDIES IN LITERATURE.** Special studies for majors. Conference hours and reports to be arranged.

Prerequisite, French 401-402.

Three hours credit each semester.

GERMAN

A major in German consists of 24 hours beyond German 12.

11-12. **BEGINNING.** Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

101-102. **INTERMEDIATE.** Review of grammar. Study of modern texts; practice in conversation and composition. Reports on outside reading.

Prerequisite, German 11-12 or equivalent.

Three hours credit each semester.

201-202. **ADVANCED.** Reading of classical and modern texts; outside readings and reports. Study of principal literary movements and civilization.

Prerequisite, German 101-102 or equivalent.

Three hours credit each semester.

301-302. **ADVANCED GRAMMAR.** Thorough review of German grammar, stressing word order, declension, passive voice, subjunctive mood, and idioms of high frequency.

Three hours credit each semester.

331-332. DIE NOVELLE. Readings and discussions of representative short stories, with emphasis on the more modern authors; study of relations with other literatures.

Prerequisite, German 201-202 or equivalent.

Three hours credit each semester.

401-402. SURVEY. A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Introduction to graduate methods of research and preparation. Required of all majors.

Prerequisite, German 301-302 or equivalent.

Three hours credit each semester.

415-416. STUDIES IN LITERATURE. Special studies for majors. Conference hours and reports to be arranged.

Prerequisite, German 401-402.

Three hours credit each semester.

GREEK

207-208. NEW TESTAMENT READINGS. Fundamentals of New Testament Greek grammar. Readings from the Gospels according to St. Luke and St. Matthew.

Open to students in Sophomore year or above, except by special permission.

Three hours credit each semester.

307-308. ADVANCED NEW TESTAMENT READING. Readings from the Gospel according to St. John, the Acts of the Apostles, and the Epistles.

Prerequisite, Greek 207-208.

Three hours credit each semester.

HISTORY

A major in history consists of 30 semester hours.

111. THE HISTORY OF WESTERN CIVILIZATION TO 1648. A survey of the experience of mankind within the framework of the ancient civilizations of the Near East and the succeeding civilizations of Europe and the western world.

Three hours credit.

112. THE HISTORY OF WESTERN CIVILIZATION FROM 1648 TO THE PRESENT. A continuation of History 101 with emphasis on the development of institutions and viewpoints characteristic of the modern era.

Three hours credit.

201. UNITED STATES AND PENNSYLVANIA HISTORY TO 1865. A course in the political, economic, and social factors in the history of the United States and the Commonwealth. (Satisfies state requirements for a teaching certificate.)

Three hours credit.

202. UNITED STATES AND PENNSYLVANIA HISTORY SINCE 1865. A continuation of History 201, with special attention to international relations, the problems of labor, education, corporate control, and postwar activities. (Satisfies state requirements for a teaching certificate.)

Three hours credit.

203. ANCIENT CIVILIZATION. The origin and character of the civilizations of antiquity, with special emphasis upon those elements of Greek and Roman culture which have been incorporated in the structure of western civilization.

Three hours credit.

Not offered 1954-1955.

204. HISTORY OF MEDIEVAL EUROPE. The development of European political, social, and religious institutions and cultural patterns from the collapse of the Roman Empire to 1500.

Three hours credit.

Not offered 1954-1955.

301. THE COLONIAL PERIOD AND THE AMERICAN REVOLUTION (1492-1789). A concentrated course on the discovery of the continent, and the events leading up to the Revolution and the adoption of the Constitution.

Three hours credit.

302. AMERICAN FOREIGN RELATIONS. A study of the most significant diplomatic problems arising out of wars, westward expansion, and colonial possessions, with special attention to the evolution of the United States as a world power.

Three hours credit.

Not offered 1954-1955.

304. THE RENAISSANCE AND REFORMATION. A study of the intellectual, artistic, and commercial developments from the fourteenth to the seventeenth century, together with the origin of the Protestant tradition and related political factors.

Three hours credit.

308. CIVIL WAR AND RECONSTRUCTION. Emphasis is placed on the events leading up to the war; the various campaigns of the war and the return to peacetime activity are considered.

Three hours credit.

317. **THE FRENCH REVOLUTION AND THE NAPOLEONIC ERA.** An analysis of the political, social, and intellectual backgrounds of the French Revolution, a survey of the course of revolutionary development, and an estimate of the results of the Napoleonic conquests and administration.

Three hours credit.

320. **PENNSYLVANIA HISTORY.** A history of Pennsylvania from its founding to the present day. All phases of life in the colony and commonwealth are treated.

Three hours credit.

Not offered 1954-1955.

321. **AMERICAN SOCIAL AND INTELLECTUAL HISTORY TO 1860.** The rise and development to 1860 of American ideas, ideals, and social standards.

Three hours credit.

322. **AMERICAN SOCIAL AND INTELLECTUAL HISTORY SINCE 1860.** The changes produced in American ideas, ideals, and social standards by the Civil War and the course of their development since that time.

Three hours credit.

323. **ENGLISH HISTORY TO 1688.** The political, constitutional, social and cultural history of Britain from the Roman period through the Revolution of 1688.

Three hours credit.

324. **ENGLISH HISTORY FROM 1688 TO THE PRESENT.** Political and social reforms, constitutional and imperial developments and economic and cultural factors from the Revolution of 1688 to the present time.

Three hours credit.

401-402. **CONTEMPORARY EUROPE.** A study of diplomatic, social and economic developments since 1914, with special reference to the rise of fascist states, international rivalries, the Soviet and Nazi revolutions, and world peace organizations.

Three hours credit each semester.

Not offered 1954-1955.

403. **RECENT HISTORY OF THE UNITED STATES (1896-PRESENT).** The development of the United States in the twentieth century. The problems and reforms of Theodore Roosevelt; Wilsonian doctrines; the First World War; the New Deal, its objectives, principles, and practices; the Second World War and its problems to the present.

Three hours credit.

Not offered 1954-1955.

405-406. **CONSTITUTIONAL HISTORY OF THE UNITED STATES.** This course presents an analysis of American political philoso-

phy, constitutional origins, and Supreme Court decisions in their influence upon economic and social problems.

Three hours credit each semester.

INTERNATIONAL RELATIONS. (See Political Science 405-406.)

415-416. STUDIES IN HISTORY. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of history. Limited to qualified majors.

Three hours credit each semester.

MATHEMATICS

For a major in mathematics, 24 semester hours are required, excluding 75 and 100.

75. GENERAL MATHEMATICS. An introduction to basic ideas of mathematics and the relation of these ideas to industry, science, art, and philosophy. This course will not serve as a prerequisite for any other courses in mathematics. No college credit toward a major.

Three hours credit.

100. INTERMEDIATE ALGEBRA. For students presenting only one year of high school algebra and desiring further work in science or engineering. No college credit toward a major.

Three hours credit.

101. COLLEGE ALGEBRA. After a rapid review of quadratic equations, this course deals with the binomial theorem, permutations and combinations, probability, series, determinants, and theory of equations.

Three hours credit.

102. TRIGONOMETRY. An introductory course in plane trigonometry dealing with the use of logarithms in the solution of plane triangles, together with the trigonometric functions of an angle and the fundamental identities connecting its functions.

Three hours credit.

201. ANALYTIC GEOMETRY. A study of the graphs of various equations; curves resulting from simple locus conditions with stress on the loci of the second degree; polar co-ordinates, and co-ordinates of space.

Prerequisite, Mathematics 102.

Four hours credit.

202. DIFFERENTIAL CALCULUS. Usual course including the elements of differentiation and their applications, maxima and minima, curve tracing, rates, curvature, and differentials.

Prerequisite, Mathematics 201.

Four hours credit.

301. INTEGRAL CALCULUS. Integration as the reverse of differentiation. Integration as a process of summation. Formal and numerical integration. Practical applications: areas, volumes, pressure, work, lengths of arcs.

Prerequisite, Mathematics 202.

Four hours credit.

302. DIFFERENTIAL EQUATIONS. A first course in ordinary differential equations. Includes differential equations of first order with applications to physics, mechanics, and chemistry; linear equations with constant coefficients, simultaneous equations, and some special higher order equations.

Prerequisite, Mathematics 301.

Three hours credit.

401. ADVANCED CALCULUS. Includes a short course in solid analytic geometry, partial differentiation, power series, Maclaurin and Taylor series, multiple integrals.

Prerequisite, Mathematics 301.

Three hours credit.

402-403. HIGHER ALGEBRA. First semester includes the elementary theory of equations. Second semester includes the study of the binomial theorem for any index, the summation of series, mathematical induction, elements of the theory of numbers, indeterminate equations, and probability.

Prerequisite, Mathematics 101.

Three hours credit each semester.

415-416. STUDIES IN MATHEMATICS. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of mathematics. Limited to qualified majors.

Three hours credit.

MUSIC

The major in music consists of 31 hours, of which 12 are to be in the 300 and/or 400 level, with 19 hours in principles and history, and 12 in applied music.

A. PRINCIPLES

75. THE ELEMENTS OF MUSIC. A course designed to present the elements of music and musicianship. Students, other than those majoring in music, participating in Applied Music are advised to take this course.

One hour, first semester.

121-122. THEORY. An integrated course in the fundamentals of music and musicianship including written harmony, sight singing, ear training, and keyboard harmony. Class meets 5 times each week.

Four hours credit each semester.

221-222. THEORY. A continuation of the integrated course in music and musicianship. Class meets 5 times each week.

Prerequisite, Music 121-122.

Four hours credit each semester.

321. ADVANCED HARMONY. Altered chords and a thorough review of seventh, ninth and eleventh chords, with analysis of material used in modern music. Continued work at the keyboard.

Prerequisite, Music 221-222.

Three hours credit.

322. COUNTERPOINT. A study of the five species in two, three, and four part writing.

Prerequisite, Music 221-222.

Three hours credit.

401. ORCHESTRATION. A study of modern orchestral instruments, an examination of their use by the great masters with practical problems of instrumentation.

Prerequisite, Music 221-222.

Three hours credit.

402. COMPOSITION. Creative writing in smaller vocal and instrumental forms. The college musical organizations serve to make performances possible.

Prerequisite, Music 322.

Three hours credit.

403. FORM AND ANALYSIS. A study of harmonic and contrapuntal forms, with analysis of representative works of music literature.

Prerequisite, Music 222.

Three hours credit.

B. HISTORY AND LITERATURE

180. MUSIC APPRECIATION. A general study of concert repertory designed to stimulate enjoyment and taste through the development of good listening techniques.

Three hours credit.

223. MUSIC AND LIVING. An advanced study of great masterpieces in musical literature designed for those desiring to become better acquainted with the role of music in our civilization.

Prerequisite, Music 130.

Three hours credit.

309. HYMNOLOGY. A study of the hymnody of the Christian Church. Emphasis is directed toward an appreciation of the Church's finest hymns.

Three hours credit.

311. HISTORY OF MUSIC. A survey of the history of music which seeks to relate the developmental character of music to social change.

Three hours credit.

312. CLASSIC AND BAROQUE MUSIC. A study of the development and growth of music and musical forms during the 17th and 16th centuries. The emergence of opera, oratorio, the sonata, the symphony, the concerto and the modern orchestra.

Prerequisite, Music 311.

Two hours credit.

313. ROMANTIC MUSIC. Music of the 19th century with emphasis on subjectivity, nationalism, and virtuosity for program music.

Prerequisite, Music 311.

Two hours credit.

314. MUSIC OF THE 20TH CENTURY. A study of music written in the 20th century with an examination of musical trends since 1900.

Prerequisite, Music 311.

Two hours credit.

315. DRAMATIC MUSIC. A study of the growth of dramatic music from ancient to modern times.

Prerequisite, Music 311.

Two hours credit.

316. MUSIC OF THE CHURCH. A survey of the Church's musical heritage from plainsong to contemporary times. Both instrumental and vocal compositions are studied.

Prerequisite, Music 311.

Two hours credit.

317. THE GOLDEN AGE OF POLYPHONY. A survey of the musical literature of the 15th and 16th centuries with time given to the singing of great polyphonic compositions.

Prerequisite, Music 311.

Two hours credit.

415. SENIOR STUDIES. Herein opportunity is afforded to the senior majoring in music to develop a project in research. Such work is undertaken in consultation with a faculty advisor. Emphasis is directed toward the development of creative thinking.

Three hours credit.

C. APPLIED MUSIC

131-132. PIANO CLASS. A beginning class in piano designed primarily for the voice and instrumental majors. Not more than 8 students to a class. Two classes each week.

One hour credit each semester.

135-136. PRIVATE PIANO INSTRUCTION. Training in the fundamentals of technique. Progressive studies are used to make possible a study of the world's finest piano literature. Participation in recitals is part of the course. Senior recital.

One half or one hour credit each semester.

141-142. VOICE CLASS. Group instruction for beginning voice students. Emphasis on personal requirements with opportunity for individual performance. Two classes each week.

One hour credit each semester.

145-146. PRIVATE VOICE INSTRUCTION. Training in the fundamentals of good singing with a study of various styles of song literature. Performance in recitals is required once each semester, with fourth year voice students presenting a major recital before graduation.

One half or one hour credit each semester.

151-152. **BAND INSTRUMENTS CLASS.** Group instruction at the beginning level in band instruments. Two classes each week.

One hour credit each semester.

155-156. **PRIVATE INSTRUCTION IN BAND INSTRUMENTS.**
255-256 Training in the fundamentals of performance on one or more in-
355-356 struments of the band. Progressive studies offer the opportunity
455-456 for the student to advance to the level of recital performance.
Senior recital required.

One half or one hour credit each semester.

165-166. **PRIVATE INSTRUCTION IN STRINGS.** Training in the
265-266 fundamentals of performance on one or more of the string
365-366 instruments. Progressive studies make possible advancement to
465-466 the level of recital performance. Senior recital required.

One half or one hour credit each semester.

175-176. **PRIVATE INSTRUCTION IN ORGAN.** Satisfactory back-
275-276 ground in piano is required to study organ. Additional work
375-376 in piano may be required at the discretion of the department
475-476 head. The organ student is given the opportunity to work with
progressive studies in both church and concert repertory. Senior recital.

One half or one hour credit each semester.

325-326. **CHORAL AND/OR INSTRUMENTAL CONDUCTING.** A
study of the fundamentals of conducting with frequent opportunity for
practical experience.

Three hours credit each semester.

334. **PIANO ENSEMBLE.** A course designed to explore piano litera-
ture for four and eight hands. Required of piano majors. Open to any
qualified student. Two classes each week.

One hour credit, with a maximum of two hours credit.

344. **VOCAL METHOD CLASS.** A study of anatomy relative to vocali-
zation; diction is studied through phonetic spelling. Practical application
is made by singing individually and as a class. Required of voice majors.
Open to any qualified student. Two classes each week.

One hour credit.

354. **INSTRUMENTAL METHOD CLASS.** A course designed to study
instrumental method. Required of instrumental majors. Open to any
qualified student. Two classes each week.

One hour credit.

***ENSEMBLE**

137-138, 237-238, 337-338, 437-438	Men's Glee Club
139-140, 239-240, 339-340, 439-440	Women's Glee Club
147-148, 247-248, 347-348, 447-448	College Choir
149-150, 249-250, 349-350, 449-450	A Cappella Choir
157-158, 257-258, 357-358, 457-458	Lycoming Singers
159-160, 259-260, 359-360, 459-460	College Band
163-164, 263-264, 363-364, 463-464	College Orchestra

* $\frac{1}{2}$ hour credit per semester for music majors. The 100, 200, 300, and 400 numbers refer to the freshman, sophomore, junior, and senior years respectively.

PHILOSOPHY

207. INTRODUCTION TO PHILOSOPHY. This basic course introduces the student to the philosophical spirit as distinguished from the scientific; the criteria of truth based upon the synoptic method as a coherent organic whole; comparison of ideas to reality with major consideration of universals and values.

Three hours credit.

209. PROBLEMS OF PHILOSOPHY. The study of the chief philosophical world views with the aim to develop a perspective for the interpretation of experience.

Prerequisite, Philosophy 207.

Three hours credit.

210. PHILOSOPHY OF RELIGION. A study of the philosophical foundations of religion, with special emphasis on the intellectual bases for the belief in God, the problem of good-and-evil, human personality, religious experience, and human immortality.

Three hours credit.

303. ETHICS. The central purpose of this course is to give constructive guidance in areas of vital concern to modern youth in college life. The modern problems of personal conduct and social ethics are considered in the light of the principles of moral obligations.

Prerequisite, Philosophy 207.

Three hours credit.

305. LOGIC. An introduction to the principles of reasoning based upon the methods of inductive and deductive logic with a major consideration of the laws of thought, the syllogism, fallacies, methods of science, and criteria of truth.

Prerequisite, Philosophy 207.

Three hours credit.

401. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. A study of the ancient and medieval philosophers and their major contributions.

Prerequisite, Philosophy 207.

Three hours credit.

402. HISTORY OF MODERN PHILOSOPHY. A study of modern philosophy beginning with Francis Bacon and the development of empiricism, rationalism, idealism, positivism, pragmatism, and personalism.

Prerequisite, Philosophy 207.

Three hours credit.

PHYSICAL EDUCATION

It is the aim of the physical education department to provide a suitable and useful program for the development of reasonable skill and permanent interest in wholesome activities; to stimulate the formation of regular health habits; and to develop in each student a high degree of physical fitness.

The specific requirement for graduation consists of successful completion of four semesters of required physical education. In case of a physical disability, limited participation upon the recommendation of a physician and with the consent of the department head will be arranged if practicable.

101-102. PHYSICAL EDUCATION (Men). Basic instruction in fundamental activities such as soccer, swimming, badminton, tennis, bowling, volleyball, basketball, softball, boxing, touch football, calisthenics, gymnastics. Passing a proficiency test in swimming shall be required. Two hours each week.

111-112. PHYSICAL EDUCATION (Women). Basic instruction in the fundamentals of "carry over" sports such as: swimming, tennis, badminton, bowling, volleyball, basketball, softball; plus calisthenics, informal gymnastics, folk dancing and character dancing. Two hours each week.

201-202. PHYSICAL EDUCATION (Men). More advanced work in the activities offered freshmen. The student is encouraged to utilize the basic fundamentals and to become a skillful enthusiast in the voluntary program of intramural activities conducted by the department. Two hours each week.

211-212. PHYSICAL EDUCATION (Women). More advanced work in activities offered freshmen. The student is permitted to express a preference for the sports she likes best and encouraged to become a skillful enthusiast in the activities of her choice. A reasonable degree of proficiency in a sport of her choice shall be required. Two hours each week.

PHYSICS

101-102. GENERAL PHYSICS. A course in the first semester covering mechanics, heat, and sound; and in the second semester, magnetism, electricity, and light. Lectures and recitations based on a standard text accompanied by a systematic course in quantitative laboratory practice. Three hours lecture and two two-hour laboratory periods each week.

Prerequisite, Mathematics 101-102 or equivalent.

Five hours credit each semester.

201. STATICS. The division of mechanics which includes the fundamental conception of a force, the resolution of a force into components, and the composition of forces into a resultant. Both the analytical and the graphic solutions are used.

Prerequisite, Mathematics 101-102; Physics 101.

Three hours credit.

202. STRENGTH OF MATERIALS. The application of analytical and vector methods to mechanical systems, including moment and shear diagrams.

Prerequisite, Physics 201.

Three hours credit.

207. TOPOGRAPHICAL SURVEYING. Field and drafting room practice in the use of the compass, transit, and level. Computations and map-making are included in the course. Six hours class and laboratory each week.

Prerequisite, Mathematics 101 and 102.

Three hours credit.

301. DYNAMICS. A division of mechanics including forces which act on a body to cause a change in its motion.

Prerequisite, Physics 201.

Three hours credit.

302. METEOROLOGY. A study of basic principles pertaining to the observation and recording of weather data, and the basing of future weather predictions on them.

Three hours credit.

303. LIGHT. A study of the theories of physical optics and an introduction to modern spectroscopy.

Prerequisite, Physics 101-102. Conference on mathematical background required.

Three hours credit.

POLITICAL SCIENCE

A major in political science consists of a minimum of 24 semester hours.

201. AMERICAN GOVERNMENT. An inquiry into the structure and functions of the various organs of national government, with special reference to their expansion to meet the problems of a modern society.

Three hours credit.

202. STATE AND LOCAL GOVERNMENT. A comparative study of the organization and functions of the states and their subdivisions, their relationship to the federal government, and the newer concept of the work of state administration.

Three hours credit.

301. PRINCIPLES OF POLITICAL SCIENCE. A study to acquaint the student with the functions of the modern state, the development of political thought, individual liberty under the law, and the nature of political parties.

Prerequisite, Political Science 201.

Three hours credit.

302. POLITICAL PARTIES AND PRESSURE POLITICS. A study of political parties in the United States with emphasis upon factors of control, campaign techniques, propaganda, and their relationship to pressure groups.

Prerequisite, Political Science 201.

Three hours credit.

Not offered 1954-1955.

AMERICAN FOREIGN RELATIONS. (See History 302.)

BUSINESS LAW. (See Business 302 and 303.)

303. COMPARATIVE GOVERNMENT. An analysis of several governments of the world, affording a comparison between democratic and authoritarian states, with particular attention directed to changes resulting from World War II.

Prerequisite, Political Science 201.

Three hours credit.

304. MUNICIPAL GOVERNMENT. An analysis of different forms of city government in the United States, the relation of the city to the states, city politics and elections, and the problems of municipal administration.

Prerequisite, Political Science 201.

Three hours credit.

Not offered 1954-1955.

401. PUBLIC ADMINISTRATION. A study of the principles, organization, and procedures of public administration, with special attention to the location of authority, analyses of objectives, and the problems of responsible bureaucracy.

Prerequisite, Political Science 201.

Three hours credit.

Not offered 1954-1955.

405. INTERNATIONAL RELATIONS. The setting for the struggle for power and peace in our time: evolution of the national state system; the arts of diplomacy; imperialistic rivalries; the quest for a world wide rule of law.

Prerequisite, Political Science 201.

Three hours credit.

406. INTERNATIONAL RELATIONS. The postwar crisis in world politics: the new role of the great powers of yesterday; the two-bloc system and the ideological conflict; the problem of peace in the middle 20th century.

Prerequisite, Political Science 201.

Three hours credit.

CONSTITUTIONAL HISTORY OF THE UNITED STATES. (See History 405-406.)

409. INTERNATIONAL LAW. A study by the case method of the nature and scope of the rules governing the conduct of states with one another during peace, war and neutrality.

Prerequisite, Political Science 201.

Three hours credit.

Not offered 1954-1955.

415-416. STUDIES IN POLITICAL SCIENCE. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of the Political Sciences. Limited to qualified majors.

Three hours credit each semester.

PSYCHOLOGY

A major in psychology consists of 24 hours of the courses below. For students planning to major in psychology it is recommended that Biology 101-102 be taken in the freshman year. Students planning graduate work will do well to include mathematics and physics as part of their liberal arts program.

201. GENERAL PSYCHOLOGY. A brief study of the nervous system, sensory processes, and the physiological drives in behavior. Textbook, lectures, readings, and experiments.

Three hours credit.

204. **SOCIAL PSYCHOLOGY.** The behavior of the individual with reference to the group. Social factors in personality, such as imitation, suggestion, attitudes, ideals, etc. Reciprocal effect of group behavior on the individual.

Three hours credit.

205. **HUMAN RELATIONS.** A study of the social and psychological interaction of people with emphasis upon the conditions for, and diagnosis of, harmonious relations. Basic study materials are cases drawn from everyday experiences, supplemented by selected readings from a wide variety of sources. Class discussions, reports, few lectures.

Three hours credit.

206. **GENERAL PSYCHOLOGY.** A continuation of Psychology 201 for students specializing in Psychology.

Three hours credit.

301. **INDUSTRIAL PSYCHOLOGY.** The application of the principles to vocational guidance, problems of personality, problems of employment, advertising, the professions, and physical efficiency.

Prerequisite, Psychology 201.

Three hours credit.

302. **ABNORMAL PSYCHOLOGY.** A general survey of the principal forms of mental abnormalities with emphasis upon symptoms, causes, and treatment.

Prerequisite, two courses in Psychology.

Three hours credit.

303. **MENTAL HYGIENE.** Technique for diagnosing personality, study of personality.

Prerequisite, three hours in Psychology.

Three hours credit.

308. **CHILD PSYCHOLOGY.** Aims to study behavior from birth to maturation; principles in harmony with normal, wholesome development of childhood; consideration of intellectual, emotional, social, physical, and vocational adjustments of youth.

Three hours credit.

309. **EDUCATIONAL PSYCHOLOGY.** A survey of the general psychological principles as applied to learning and the development of personality.

Prerequisite, Psychology 201.

Three hours credit.

401. TESTS AND MEASUREMENTS. Practical survey course of the field of tests, and measurements; deals with development of tests, principles involved in construction, administration, uses, and misuses of tests in school, industry, and court.

Prerequisite, Psychology 201, 309, and 411.

Three hours credit.

402. SYSTEMATIC PSYCHOLOGY. A study of the various theories of Psychology, with regard to their agreements and conflicts.

Prerequisite, three hours in Psychology.

Three hours credit.

411. STATISTICS. Numerical trends, curve, index, correlations, interpretation of charts and graphs.

Three hours credit.

415-416. STUDIES IN PSYCHOLOGY. Introduction to experimental method, readings, reports and conferences designed to give the student a comprehensive knowledge of the field of psychology. Limited to qualified majors.

Three hours credit each semester.

RELIGION

101. THE LIFE AND TEACHINGS OF JESUS. A critical approach to the life and teachings of Jesus according to the Gospel of Luke and its historical background. A comparison of the other synoptic gospels in an effort to give an integrated life of the Master.

Three hours credit.

205. GROWTH OF THE NEW TESTAMENT CHURCH. A general survey of the literature of the New Testament with the Act of the Apostles considered as the basic source followed and integrated by the writings of Paul. The literature will be studied in both the historical and literary approach with reference to dates, background, authorship, and general teachings.

Three hours credit.

206. THE LITERATURE OF THE OLD TESTAMENT. A survey of the most important works of the Old Testament concerning the nature of authorship and the general teaching of these books.

Three hours credit.

209. GROWTH AND DEVELOPMENT OF RELIGIOUS EDUCATION. A survey of the entire field of religious education will be made in

its growth and development, including Judaism, Graeco-Roman, and Christian education, paralleling the history of the Church, with particular emphasis upon the period from Luther to the present.

Three hours credit.

210. EDUCATIONAL WORK OF THE CHURCH. A course designed to develop an understanding of the objectives, organization, and program of religious education. Adaptation to age groups, training of leaders, cooperation with the total church program.

Three hours credit.

305. THE PROPHETS. A consideration of the prophetic movement in Israel beginning with the pre-literary prophets and including the works of Amos, Hosea, Isaiah, Jeremiah, and the prophets of the Restoration.

Prerequisite, Religion 206.

Three hours credit.

306. COMPARATIVE RELIGION. A comparative study of the religious beliefs and practices of mankind as they are represented in the living religions of the present day.

Three hours credit.

THE BIBLE AS LITERATURE. (See English 317).

401. CONTEMPORARY RELIGIONS IN AMERICA. A study of the religious life in the United States with special reference to the Protestant church, but also including the Roman Catholic church, Judaism, and the sects. Members of various religious groups will be invited to present their views to the class.

Three hours credit.

SCIENCE

Science 101-102 satisfies the science credit for graduation, but may not be counted toward any science major.

101. SCIENCE. Survey course in the principles of the Physical Sciences.

Three hours credit.

102. SCIENCE. Survey course in the principles of the Biological Sciences.

Three hours credit.

SOCIOLOGY

A major in sociology consists of a minimum of 24 hours of the following courses:

101. INTRODUCTORY SOCIOLOGY. Introduction to principal concepts, methods, and terminology centering upon a study of society, culture, the group, institutions, and the principles and processes of human interrelationships.

Three hours credit.

201. SOCIAL PROBLEMS. A survey of certain problems of the contemporary social order including: the social hazards of modern industrial life; urbanization; social security; unemployment; illegitimacy; city planning; social settlements; social effects of the labor movement.

Three hours credit.

202. MARRIAGE AND THE FAMILY. A study of the background and contemporary aspects of the modern American family covering: cultural backgrounds of the modern family; historical phases of the modern family; contemporary family problems—biological, economic, and psychological; family disintegration and reorganization.

Three hours credit.

204. SOCIAL PATHOLOGY. A survey of the more serious pathological maladjustments of contemporary American society including: poverty; drug addiction; alcoholism; mental disease; prostitution; neglected children; disablement; and old age. One or more preliminary courses in Sociology desirable.

Three hours credit.

Not offered 1954-1955.

211. WORKSHOP IN THE CHURCH. A discussion of the problems of parish workers, and a study of the techniques of administration, public worship, preaching, visitation, evangelism, finances, religious education, conducting weddings and funerals and other pastoral functions. Required of those serving charges while enrolled at Lycoming College. This course is also offered to students in the Church Work curriculum, and to others when special permission is granted.

One hour credit each semester, with a maximum of three hours credit.

213. CULTURAL ANTHROPOLOGY. A study of different cultures, particularly of primitive man, but including consideration of modern society. Deals with technology, social organization, basic institutions, and the process of change.

Three hours credit.

302. EDUCATIONAL SOCIOLOGY. The aims, goals, and purposes of education as interpreted from the sociological viewpoint including: the school as a social institution; the home and education; the community and education; improvement of teaching service; educational guidance; discipline; and moral education.

Three hours credit.

303. URBAN SOCIOLOGY. A study of functions of cities and social processes in urban areas.

Three hours credit.

Not offered 1954-1955.

310. RURAL SOCIOLOGY. A study of the nature of rural social systems with emphases on the family and informal groups; neighborhood groups; social strata; rural service agencies; religious, educational, political, and occupational groups.

Three hours credit.

313. INTRODUCTION TO SOCIAL WORK. General survey of the history and present status of the chief types of social work. Social work skills are not taught in this course. Field trips to various social agencies are part of the course experience.

Three hours credit.

Not offered 1954-1955.

401. CRIMINOLOGY. An introductory course including the nature and causes of crime; criminal detention and court procedure; the punishment of crimes; parole; and crime prevention.

Three hours credit.

Not offered 1954-1955.

402. RACIAL AND MINORITY PROBLEMS. A study of the adjustments which the minority racial and national groups in our population are making; the contributions of these groups to the culture patterns in the United States; and immigration and naturalization problems.

Three hours credit.

Not offered 1954-1955.

415-416. STUDIES IN SOCIOLOGY. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of Sociology. Limited to qualified majors.

Three hours credit each semester.

SPANISH

A major in Spanish consists of 24 hours beyond Spanish 12.

11-12. BEGINNING. Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

101-102. INTERMEDIATE. Review of grammar. Study of modern texts; outside reading and reports; practice in conversation and composition.

Prerequisite, Spanish 11-12 or equivalent.

Three hours credit each semester.

201-202. ADVANCED. Reading of Golden Age and modern texts; outside readings and reports. Study of principal literary movements and civilization.

Prerequisite, Spanish 101-102 or equivalent.

Three hours credit each semester.

203-204. COMMERCIAL. Study of business letters and practice in writing replies. Business terminology and trade relations with Spanish-speaking countries, dictation of typical business material.

Prerequisite, Spanish 101-102 or equivalent.

Three hours credit each semester.

301-302. ADVANCED GRAMMAR. Spanish style illustrated by reading representative modern authors. Difficult points of grammar and usage studied. Drill on idioms and verb forms of high frequency.

Prerequisite, Spanish 201-202, 203-204 or equivalent.

Three hours credit each semester.

303-304. CONVERSATION. Study of customs, manners, and conditions in Latin America. Representative works are read and discussed in Spanish.

Three hours credit each semester.

305. CERVANTES. Lectures on the thought and prose literature of the Golden Age in Spain, comparison with trends in other literatures. Study of the Novelas ejemplares and Don Quijote of Cervantes. Readings and reports.

Prerequisite, two years of college Spanish.

Three hours credit.

306. GOLDEN AGE DRAMA. Lectures on the history of Spanish drama, comparison with the drama of other countries. Study of plays by Lope de Vega and Calderon. Readings and reports.

Prerequisite, two years of college Spanish.

Three hours credit.

401-402. SURVEY. A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Required of all majors.

Prerequisite, Spanish 301-302 or equivalent.

Three hours credit each semester.

415-416. STUDIES IN LITERATURE. Special studies for majors. Conference hours and reports to be arranged.

Prerequisite, Spanish 401-402.

Three hours credit each semester.

SPEECH

105. FUNDAMENTALS OF SPEECH. Development of the elementary principles of simple oral communication through lectures, prepared assignments in speaking, and informal class exercises.

Three hours credit.

106. VOICE AND PHONETICS. Study of the physical, physiological, and psychological aspects of speech. Considerable attention will be devoted to improvement of the individual student's speech through intensive study of the International Phonetic Alphabet, voice production, and through practice exercises.

Three hours credit.

205. PUBLIC SPEAKING. An introductory course in public speaking emphasizing the development of skill in the public presentation of oral material. Some work in discussion, oral reading, and radio.

Prerequisite, Speech 105, 106 or equivalent.

Three hours credit.

212. DRAMATIC PRODUCTION. A lecture course in the basic elements of scene and costume design, lighting, make-up, and stage management.

Three hours credit.

305. ACTING. Development of the student's skill in stage movement, speech, and the interpretation of a role. Particular attention will be paid to the problems of coaching non-professional performers.

Three hours credit.

306. DIRECTING. A study of the problems of preparing the play for public performance from the director's point of view. Attention will be paid to the problems involved in working with non-professional groups.

Prerequisite, Speech 305.

Three hours credit.

311. WORLD THEATRE AND DRAMA TO IBSEN. The development of the physical theatre and dramatic literature from the earliest times to the nineteenth century.

Three hours credit.

312. WORLD THEATRE AND DRAMA SINCE IBSEN. Development of modern conceptions of dramatic production and modern dramatic literature.

Three hours credit.

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SUMMARY OF STUDENTS

SUMMER SESSION, 1953

College Enrollment

Total Students 102

FALL SEMESTER 1953

Arts and Science	223	
Business Administration	101	
Pre-Engineering	32	
Secretarial Science	19	
Medical Secretarial Science	29	
Church Work	4	
Laboratory Technology	22	
Art	10	
Music	10	
Nurses (45) and Special Students (17)	62	
Post Graduates	8	
Evening School	109	
Less Duplications	7	
	622	
Total		622

GIFTS AND BEQUESTS

Extension of many of the services rendered by the College must depend upon the generosity of private benefactors. A gift or bequest in any amount will be helpful in advancing human knowledge and in providing additional educational opportunities for the youth who attend Lycoming College.

The President of the College will be glad to discuss the needs and projects of the College with interested persons, and to suggest means for achieving the object of their benefactions.

FORM OF BEQUEST

To the Trustees of Lycoming College, I give and bequeath the sum of \$..... to be used by said Trustees for the uses and purposes of said Corporation.

Preliminary Enrollment Blank
Lycoming College, Williamsport, Pennsylvania

Date

Name

Address

Phone Number Sex Age

Years of High School Work Completed

Name of High School

College Work Completed (If any)

When do you expect to enter Lycoming?

Which curriculum do you wish to study?

Are you enclosing registration fee of \$10.00?

If a veteran, check Public Law under which you are eligible
for training: 346..... 16..... 550.....

Mail appropriate blank to:
DIRECTOR OF ADMISSIONS
LYCOMING COLLEGE, WILLIAMSPORT, PA.

Application for Admission to Summer Sessions
Lycoming College, Williamsport, Pennsylvania

Name

Address

is a student in good standing at

College

Location

and has permission to enroll in the following courses at Lycoming College:

	<i>Semester Hours</i>
.....
.....
.....
.....
.....

.....

Date Signed
Dean or Registrar

