WILKES COLLEGE Bulletin

1957 - 1958



WILKES-BARRE

PENNSYLVANIA

WILKES COLLEGE Bulletin

1957-1958

FALL AND SPRING SEMESTERS — 1957-58

Marks of An Educated Man . . .

- 1. He seeks truth, for without truth there can be no understanding, and without understanding the problems that separate us are insoluble.
- 2. He is able to communicate ideas in a manner that assures understanding.
- 3. He has faith in man. He respects differences because he knows how they have come to be. He fears uniformity because it confines both mind and spirit. He is aware of his own limitations and his neighbor's possibilities.
- 4. He possesses vision, for he knows that vision precedes all great attainments. "Where there is no vision, the people perish."
- 5. He cultivates inner resources and spiritual strength, for they enrich his daily living and sustain him in times of crises.
- 6. He has ethical standards by which he lives.
- 7. He is aware of the human struggle for progress and comprehends the forces that have assured or jeopardized this progress. He knows that man's progress requires intellectual vigor, moral courage, and physical stamina.
- 8. He is conscious of his responsibility as a citizen, and participates constructively in the social, economic, and political life of the community.

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COLLEGE CALENDAR

SUMMER, 1957

Mon., June 10 to Sat., June 15 Summer School registration
Mon., June 17 Classes begin
Thurs., July 4 Independence Day observance
Fri., August 2 Summer School ends

FALL, 1957

		Freshmen Orientation
Wed., Sept. 11	1	Freshmen Registration
Thurs., Sept. 1	2	Upperclassmen Registration
Mon., Sept. 1	6	Classes begin at 8:00 A.M.
Sun., Oct. 6		Reception—Parents of Freshmen
Sat., Oct. 26.		Homecoming
Sat., Oct. 26.		Final date to remove incompletes
Wed., Oct. 30		Mid-Semester Reports
	to Fri., Nov. 8	
Wed., Nov. 2	7	Thanksgiving recess begins at noon
Mon., Dec. 2		Thanksgiving recess ends at 8:00 A.M.
Sat., Dec. 21.		Christmas recess begins at 5:00 P.M.
Mon., Jan. 6.		Christmas recess ends at 8:00 A.M.
		Examination period
		-

SPRING, 1958

SUMMER, 1958

Wed., June	11 to Fri., June 13. Registration
Mon., June	16Classes begin
Fri., July 4	Independence Day
Fri., Aug. 1	Summer School ends



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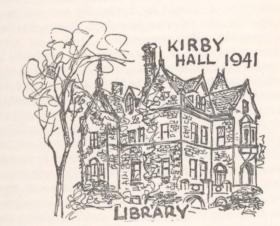
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A History of the College

O PROVIDE opportunities for education comparable to those offered by other communities of the nation, Bucknell University, in 1933, established a two-year center in Wilkes-Barre and named it Bucknell University Junior College. Prior to that year, Wilkes-Barre and the Wyoming Valley comprised the largest community in Pennsylvania, if not in the United States, lacking a local college.

For several years the Junior College was maintained on an experimental basis while the interest of students in advancing their education and the willingness of citizens to support the new college were determined. By 1938, the response from both groups was known and

plans for a permanent college were made.

While these plans were under consideration, Bucknell University adopted a policy in relation to the Junior College that significantly affected its development. In 1938, the University promised the College complete autonomy when its foundations were firmly established but offered to continue its sponsorship as long as such support was of value to the new college. At the same time, the responsibility originally assumed by the Board of Trustees of the University was transferred to a local Board as being more strategically placed to forecast future needs and to integrate the College as a community institution.

Under this agreement, the Junior College advanced rapidly and by successive steps extended its program to include four years of work. In 1946, the University offered extension courses enabling students to finish their junior and senior years in Wilkes-Barre, and the College Trustees expanded the facilities of the College and established an endowment of more than \$500,000. Having satisfied the requirements of the State, the Junior College was chartered as Wilkes College in June, 1947, and thus gained an independent legal status.

Early in World War II, from February, 1943, to June, 1944, a contingent of 250 Air Crew students was stationed at the College with the Sixth College Training Detachment. These cadets were quartered at the Hotel Sterling and received training in classes sep-

arate from the regular college classes.

Although the war deterred the growth of the College for a time, the impetus to education resulting from war experiences accelerated its development in the years immediately following the cessation of hostilities.

RECORD OF GROWTH

The first classes were held in a rented office building with an enrollment of 155 students, and a majority of the faculty were drawn from the staff of Bucknell University. After an experimental three years, the Administration and local Trustees appealed to leading citizens to enable the College to move from rented quarters into a permanent home. The response was prompt and generous.

Mrs. John Conyngham and Admiral and Mrs. Harold R. Stark were the first donors, and John N. Conyngham Hall and Chase Hall, given in 1937, were dedicated by President Arnaud C. Marts of Bucknell on April 9, 1938. Five hundred residents of the Valley contributed to the funds for adapting these buildings to college use. Mr. and Mrs. Frederick Weckesser added the residence at 78 West Northampton Street to the College property in 1938.

In 1941, Mr. Allan Kirby's gift of the former residence of his parents with spacious grounds adjoining those of Chase Hall provided the College with a real campus and permitted expansion from quarters that were already overcrowded. The new building, named the Kirby Home for Education, was dedicated on December 2, 1941.

Members of the Board of Trustees gave the College three additional buildings during 1945 and 1946, which were subsequently named Isaac Barré Hall, in honor of the English statesman friendly to the cause of the American Revolution; Zebulon Butler Hall, in honor of the American patriot; and Gies Hall, in memory of Paul Gies, beloved professor of music, who died in 1948. Another adjacent property, Ashley Hall, was deeded to the College in 1946 by the heirs of the Ashley estate, Mrs. Marion A. Ahlborn, Dr. Henry A. Carr, and Mrs. Roccena Wolfe. In 1947, Mr. Andrew J. Sordoni presented the College with the lot at the corner of South Franklin and South streets, and later in the same year a lot on South Franklin Street was purchased as the site of a gymnasium, construction of which was completed in 1950.

In 1949, three additional properties were acquired. Timothy Pickering Hall was purchased by the Board of Trustees in the spring; Sterling Hall was left to the College through a bequest of Colonel Walter C. Sterling; and the President's residence was purchased with funds contributed specifically for that purpose by a friend of the

To provide adequate housing facilities for out-of-area women students, Mr. Gilbert S. McClintock, chairman of the Board of Trustees, gave his South River Street home to the College in 1951. Now called McClintock Hall, the building, together with the other four College residences, permits the accommodation of approximately one hundred boarding students.

The gracious old Sturdevant house on South Franklin Street was purchased in the summer of 1952. Its rooms have been converted into offices and classrooms for the departments of Education and Psychology.

In the following year, Miss Anna Hollenback bequeathed the College her home on South Franklin Street. It is now used for offices for the Veterans Administration and the College's Guidance and Placement Bureau. These offices were formerly located in Ashley Hall, which has now been converted into a men's residence to accommodate the increase in out-of-town students.

Since 1953 six additional properties have been acquired by gift and purchase. Of these properties David Roberts Warner Hall is used as a dormitory for men, and Harding House is reserved for the book store and a student lounge. The other properties have been reserved for parking areas or are temporarily used for class purposes.

By September 1957, the Harold R. Stark Hall, which is now under construction, will be ready for use by the science departments. This building of approximately 50,000 square feet has been given by a group of anonymous friends and will provide students with the most modern facilities of study in the fields of biology, chemistry, and physics.

Fortunately, endowment has kept pact with the expanding facilities of the College so that the tuition of each student is supplemented by further income from endowment. Annual gifts from friends and alumni also add to the funds spent for the education of each student.



General Information

CURRICULA

The College offers programs leading to the Bachelor's degree in liberal arts, biology, chemistry, commerce and finance, and elementary, secondary, business, music, and nursing education, in addition to two years of work in physics and engineering. A student who successfully completes the physics or the engineering program may transfer as a junior to an institution granting degrees in his field.

TERMINAL PROGRAMS

Terminal programs in music, secretarial work, medical secretarial work, laboratory and medical technology, and pre-dental work are open to the student who desires only two years of college.

EXTENSION CLASSES

Bucknell University gives extension courses in education on the Wilkes campus. Graduate credit earned in these courses may be applied toward the degree of Master of Science in Education and State certification in guidance and administration. A person desirous of taking the degree of Master of Science in Education at Bucknell University may earn eighteen of the required thirty hours in Wilkes-Barre but must earn the remaining twelve in residence at Lewisburg.

ACCREDITMENT

Wilkes College is accredited by the Department of Public Instruction of the State of Pennsylvania, the Middle States Association of Colleges and Secondary Schools, and the University of the State of New York.

ADMISSIONS

An applicant for admission to the College should write to the Director of Admissions to request a personal interview and a set of application forms. Upon completing the forms, he should return them, together with a \$5.00 fee, to the admissions office.

Although it is desirable that the interview with the Director of Admissions or the appropriate Dean should take place at the College, other arrangements may be made in instances in which a trip to Wilkes-Barre would seriously inconvenience the student applying for admission.

Admissions tests will ordinarily be scheduled during the interview. An applicant who has taken the tests given by the College Entrance Examination Board may be excused from the examination administered by the College.

Upon receipt of an application, the Director of Admissions will obtain an official transcript from the secondary school or college formerly attended by the applicant. The Committee on Admissions will then consider the full record of the student and will notify him of its action as early as possible.

ADVANCED STANDING

A student who wishes to transfer to the College from another institution should follow the regular procedure for admission. He should request the college or university from which he desires to transfer to forward to the College a transcript and a letter of honorable dismissal. After the College has made a tentative evaluation of the record of the student, a faculty adviser will counsel him concerning his new schedule. The transferred credits will be placed on the Wilkes record of the student following a final evaluation at the end of his first term at the

A student who has no credits to transfer but who is equipped to enter advanced courses in college may enroll in such courses upon passing a placement examination. Although he will not receive credit for the courses that he has omitted, he will be spared the necessity of repeating work that he has previously covered outside of college.

Five numerical grades are given by the College for academic work. These grades are:

Grade	Interpretation
4	Superior
3	Very Good
2	Good
1	Passing
0	Failing

Averages are computed by multiplying the grade earned in a subject by the number of credits. The totals thus obtained for each subject are added and the total for all subjects is divided by the total number of credits taken by the student. This quotient shall be called the point average.

USE OF MARKS

Although the primary purpose of any marking system is to inform the student of his achievement, marks are also used by the College as guides to counselling and for administrative purposes.

The faculty counsellor, before discussing future plans, must be informed concerning the student's ability, stability, interests, and achievement for it is these factors that suggest the possibilities for development of the student.

Marks and averages also indicate something of the values gained from College. It is generally admitted that superior and good grades indicate that a student is benefiting from his studies; it is similarly accepted that a student who makes a poor record is gaining little from College. Marks and averages are therefore used to determine whether or not the student is receiving sufficient benefit to remain in College. For the guidance of

both students and faculty, the following averages are required for advancement from class to class. To be admitted to these classes the following averages are required:

Class												Averag
Sophom	10.	re	-									1.4
Junior												1.7
Senior												1.85

Any student failing to meet these requirements will withdraw from the College unless he appears before the probation and evaluation committee and convinces them that he merits another opportunity.

REQUIREMENTS FOR GRADUATION

To be eligible for graduation all requirements of the College and of the curriculum must be satisfied. These requirements are:

- 1. The completion of all subjects required for the degree.
- 2. A grade of 1 or better in each required subject.
- 3. An average of 1.85 for all courses.
- 4. An average of 2.0 for all subjects within the student's major.
- Satisfaction of all requirements pertaining to the orientation and assembly programs and physical education.

TERMINAL CERTIFICATES

Students taking terminal courses must complete all course requirements and must average 1.7 credit points for all courses.

Two-Year Engineering and Physics Certificates

Certificates in engineering and physics will be awarded to students who have completed at least 64 hours of required work approved by the engineering faculty for entrance to other engineering schools and have earned an average of 1.7 for all courses.

PROBATION

Any student not attaining the grade necessary to advance him to the next class will be put on probation for one semester. If, at the end of that period, he has not attained the minimum average for admission to his class, he will be dropped from college.

WITHDRAWALS

A student may withdraw from any course during the first two weeks of a semester without penalty. A student who withdraws from one or more courses after the first two weeks but who continues other courses will receive an "F" unless the Dean, faculty adviser and instructor agree that the student be permitted to drop the course without prejudice.

TAKING OF DEGREES

In order to receive his degree or certificate, a candidate must be present at commencement. If circumstances prevent his attendance, he must apply to the appropriate Dean for permission to take the degree or certificate in absentia.

COUNSELING

Each student will be assigned a faculty adviser at the beginning of his freshman year and will be expected to confer with this adviser concerning the schedule and other educational problems.

REGISTRATION

Every student is expected to register at the beginning of each term on the dates designated for this purpose. Late registrations may be accepted for two weeks following the beginning of classes; thereafter no registrations will be accepted. A student who registers after the registration dates will pay an additional charge of \$5.00.

The maximum registration recommended for each course and covered by the tuition charge of \$275 a semester is indicated in the program of courses. No student may carry an overload without the approval of his adviser and the Dean. Any student taking an overload must have earned at least a "B" average during the preceding term. Each hour of work beyond that listed in the catalogue must be paid for at the hourly rate.

ATTENDANCE

Attendance at all classes is expected, and repeated absence is deemed a sufficient cause for failure.

Five consecutive absences from a class place a student on probation. He may be readmitted to the class only by action of the appropriate Dean and the Department Chairman concerned.

Each student is required to attend weekly assemblies during each of his four years. He will, however, be allowed the following number of cuts each year:

Freshman and sophomore year — four cuts.

Junior year — eight cuts.

Senior year — fifteen cuts.

These requirements must be satisfied to establish eligibility for graduation.

Inasmuch as the values to be derived from a college are less dependent upon its material resources than upon the character of its teachers and the quality of their interest in its students, the College has carefully selected its faculty for their training, experience, and

A cosmopolitan group, Wilkes teachers bring to the College a breadth of experience and of vision that enables them to treat their subjects in large perspective and an academic preparation that fits them to provide the intensive training essential to their various fields.

LIBRARY

Kirby Hall, the College library, houses approximately 40,000 volumes. The library is staffed by three professional librarians and a number of student employees.

Shelved on open stacks to encourage students and faculty members to make full use of them, the books, with the exception of those reserved for reference and as supplementary reading matter for particular courses, may be borrowed for periods of two weeks. Also available to members of the College community are some four hundred current periodicals.

TRANSFER OF CREDITS

Approximately forty per cent of the graduates of Wilkes have entered graduate or professional schools. It is recommended that the student who wishes to extend his education beyond the Bachelor's degree take the Graduate Record Examination or another appropriate professional examination in his senior year. Such examinations are generally required by graduate and professional schools, and it is best to take them at the end of the college course.

TRANSFER OF SUMMER CREDITS

- 1. A student who desires to study at another college during the summer must have his summer schedule approved by the appropriate Dean prior to enrollment in the other college if his summer work is to be credited toward graduation from Wilkes College.
- 2. When credits for the work taken in the summer at another college are requested at Wilkes, it will be necessary for this work to be evaluated. In some cases it may be necessary for a student to take examinations before credit is granted.
- 3. A student from another college who wishes to take summer work at Wilkes must secure the approval of the proper officer of his own institution if he expects to receive credit for such work.

The flat tuition rate adopted by the College enables a student to gain an education in most of the curricula outlined in the catalogue at the rate of \$275.00 a semester for tuition, provided the normal load of semester hours as stated in the catalogue for each semester is not exceeded. An additional charge of \$17.00 will be made for each semester hour in excess of the normal load.

WILKES COLLEGE

The tuition of \$275.00 includes a charge for maintaining student activities.

SCHEDULE OF RATES

Charges per semester for students taking a normal load of semester hours as specified in the catalogue for the particular semester and

course selected:	
Tuition	\$275.00
Accident Insurance per school year	7.00
Laboratory fee for	
Bio. 101, 102, 111, 112, 113, 201, 202, 211, 212, 223, 241, 242, 251, 252	
Chem. 101, 102, 104, 121, 122, 230, 231, 233, 241, 242, 251, 252, 271, 272	
C.E. 103, 104	
Phys. 111, 112, 150, 151, 152, 251	15.00
Laboratory fee for	
S.S. 99, 101, 102, 107, 108, 109, 110, 115, 205	10.00
Fee for Ed. 207, 209, 210, Mus. Ed. 203-204	20.00
Chemistry Breakage Deposit	
(any balance refunded)	10.00
Music—individual instruction:	
Fifteen-week series of half-hour lessons in piano, organ,	4 25 00
or wind instrument	
Fifteen-week series of half-hour lessons in violin, viola, or cello with Mr. Liva	50.00
Fifteen-week series of half-hour lessons in voice with	50.00

A student registering for individual instruction in music will be charged for five lessons whether the lessons are taken or not. A student dropping his study after the fifth lesson will be charged for the full term.

Mr. Isaacs Fifteen-week series of half-hour lessons in piano with Mrs. Liva....

Students registering for individual music instruction after the third week of the semester will be charged on a pro rata basis.

Rental of practice room	5.00
Use of diction laboratory	5.00

Music—group instruction:	
Fifteen-week series of one-hour lessons in violin, viola, or cello in groups consisting of not less than three or more than five students	34.00
Music Education Laboratory Fee: Rental of school instruments used in the Music Education Course for a fifteen-week period and the use of practice rooms	10.00
Charges for part-time students, students in the Evening School, and for semester hours beyond the normal load prescribed in regular courses:	
Semester hour of study	17.00
Student activity fee for those taking less than fifteen or more than nine semester hours, or for any special student wishing to participate in activities	17.00
Charges for Summer School (eight weeks) Semester hour of study	17.00 & 20.00
Dormitory charges Board and Room Per Semester Bills for board and room in college dormitories are due before the opening of the semester. A deposit of \$50.00 is required to reserve a room.	325.00
Accident and sickness group insurance policy, required of all dormitory students, payable in full with first semester charges	25.00
Special Charges:	
Fee to accompany application for admission	5.00
Change of schedule per credit hour	1.00
Special Evamination	5.00 1.00
Transcript (no charge for the first copy)	5.00
Late Registration	20.00
Graduation fee (four-year students) Convocation fee (two-year students)	12.50
Charges are subject to adjustment to conform to changing pri	
Charges are subject to adjustered	

50.00

A \$50.00 deposit or 50% of the total charge for tuition and fees, whichever is less, is required at the time of registration. The balance of

the charges for the semester is payable on receipt of an itemized bill.

No students may take an examination until satisfactory arrangements have been made with the Comptroller for the payment of all bills. No student may take a final examination until all financial obligations to the College have been satisfied.

WITHDRAWALS AND REFUNDS

Refund of tuition will be made to students who withdraw voluntarily from the College while in good standing under the following conditions:

During the first six weeks of a term, one-half the tuition will be refunded upon request if the withdrawal is made for adequate and satisfactory reasons.

Tuition for unfinished courses will be refunded to all students ordered to active duty under the Selective Service Act or by the Organized Reserve Corps.

Refund of room and board (dormitory charges) will not be made except under special conditions.

No courses may be dropped after the second week, except with approval of the student's faculty adviser and the Dean.



Student Welfare

CAREERS LIBRARY

The Careers Library is intended to obviate the one great factor in occupational maladjustment of American youth, namely, scarcity of information. It is an instrument of the consulting service provided not only for seniors but for all classes in the College.

A consultant on careers, maintained by the College, has established and continues to maintain contact with representative industries and professional associations throughout the country. From these primary sources comes first-hand information on careers. Thousands of pages culled from this raw material provide background information, which is under constant revision. Individual attention is given the problems and queries of each student as he seeks to set himself in the right voca-

One section of the library is devoted to scholarships, fellowships, and company training programs. Another has to do with careers from a geographic point of view. Forty house organs, employee magazines, and professional periodicals are included in the collection as are some six hundred catalogues and bulletins from more than five hundred American colleges and universities, in addition to announcements from foreign institutions of learning, especially at the graduate or professional level.

The Careers Consulting Service is not concerned with placement but rather with the way to a career. Long before graduation a student should have availed himself of this service.

COUNSELING

The College considers counseling one of the most effective ways in which to encourage the development of its students. It considers each student's personal, educational, and vocational objectives at the time of his application so that, as far as possible, it can plan its academic program to enable him to realize those objectives.

Upon entering the College, each student participates in a testing program, the purpose of which is to provide all of those who are concerned with his progress with information about his abilities, interests, and aptitudes. He has opportunities throughout his college career to consult with his faculty adviser concerning his scholastic progress or social and personal problems with which he needs help.

The Deans cooperate with faculty advisers in providing students with information and guidance wherever possible, and the College urges students to avail themselves of their services.

The guiding principle of all Wilkes counseling is to encourage the student to discover his own abilities and potentialities and to assist him in making sound, independent decisions.

ORIENTATION PROGRAM

The transition from the directed work of the secondary school to the independent and more intensive work of the College occasionally causes difficulty. To assist students in making an early adjustment, several days at the beginning of the term are set aside for discussions with freshmen. This program ranges from individual conferences to lectures on the meaning of a college education.

During this first week, new students take aptitude, interest, foreign language, and English-placement tests. They also discuss their plans and hopes with their faculty advisers and arrange schedules under their guidance. The week also gives the new students an opportunity to become acquainted with one another and to learn about student

Throughout their first term small groups of freshmen meet once a week with representatives of the faculty. They discuss informally, some of the problems of college adjustment. By placing responsibility upon the student for planning and conducting these discussions, the College encourages clear thinking, initiative, poise, and breadth of view.

COLLEGE CONSULTATION SERVICE

The College Consultation Service offers individual assistance to students with personal problems. Students who desire such help may apply directly to the Consultation Service staff for appointments. Interviews with the specially trained staff are conducted on an entirely confidential

New students or those who are unacquainted with this resource may be referred to the Service by the Dean of Men, the Dean of Women, or any other interested faculty member.

COMMUNITY PROGRAMS

In addition to its regular classes, the College occasionally offers noncredit programs for groups and organizations desiring specialized training. All such programs are adapted to the needs and desires of the sponsoring groups and emphasis is placed upon practical applications rather than theory.

Some idea of the services that are available may be gained from a statement of services that already have been offered.

During the war, special courses in drafting, mathematics, and engineering were offered to prepare persons for work in defense plants. Currently, a group of underwriters are studying life insurance problems and policies to increase their understanding of the services they sell. Over a period of years, special courses in musical literature have been offered by the Department of Music, and a refresher course has been offered for chiropractors from eastern Pennsylvania to prepare them for the examination given by the State Board of Medical Examiners.

As the College expands its faculty and facilities, it will be able to offer similar courses in economics, selling, and advertising; and it is hoped that technical services in chemistry may be available to small industries requiring laboratory services that cannot be maintained economically in their industrial plants. The Economics Department of Wilkes College is engaged in research projects on a community basis.

PLACEMENT OFFICE AND STUDENT EMPLOYMENT

The College maintains a placement office in Hollenback Hall, South Franklin Street. One purpose of the office is to help undergraduates to find part-time employment. More than one-third of the students earn part of their expenses, and the office has been particularly helpful to this large group. Students desiring such part-time work should communicate with the Director as early in the school year as possible.

Another important service rendered by the Placement Office is that of assisting the graduating student to find permanent employment in a position suitable to his talents and training. Students who desire this service should see the Director early in the senior year. The Office will, moreover, be pleased to extend such assistance to any graduate of the College.

SPECIAL SERVICES

Accident and Sickness Insurance. Accident and sickness group insurance is required of all dormitory students, but is optional with day students. The plans are described in material mailed to all applicants upon admission to the College.

The accident policy provides reimbursement for expenses arising out of any accident in which the student is involved during the entire college year. Reimbursement is made up to \$500.00 for each accident.

The sickness policy provides additional reimbursement for all expenses attendant upon any illness to which the student becomes subject during the college year. Under this coverage there is reimbursement up to \$200.00 for each illness.

Broad in scope, the plan covers all the student's illnesses and accidents, regardless of how or where they may occur. Benefits under the plan are paid *in addition to* benefits to which the student is entitled under any personal policy or membership in any hospital association.

The fee for accident and sickness coverage is \$25.00 payable at the time of registration. It is underwritten by the Mutual Benefit Health and Accident Association of Omaha and is under the supervision of Howell & Jones, Inc., Wilkes-Barre.

Accident Insurance. Accident insurance must be carried by all students to protect them from unnecessary loss during the school year. To

provide this coverage at a minimum the College has arranged for group coverage with the Mutual Benefit Health and Accident Association of Omaha. The fee of \$7.00 provides protection for the full period of the College term and is payable at the beginning of the term.

Day students who wish to obtain both health and accident insurance may buy this more comprehensive coverage at the same rate paid by boarding students.

Lockers. The College provides a number of conveniently located lockers for students who wish to safeguard their personal belongings. A student may rent one of the lockers at the rate of \$1.00 a year, one quarter of which will be refunded when he surrenders his key. The fee is payable at registration.

Student Activities

The scholastic program is supplemented by a representative group of student activities, organized and controlled by the students. They supply values which cannot be realized through academic work alone. Each student is encouraged to participate in at least one activity during the year.

STUDENT GOVERNMENT

To provide a co-ordinating agency, to establish social standards, and to assure responsibility, a Student Council, representative of all students, is elected annually. The Council is responsible for planning, supervising, and executing the program of student activities.

ASSEMBLY COMMITTEE

Approximately half of the weekly assembly programs given during the academic year are planned and presented by students. The Assembly Committee, to which freshmen are elected each fall to replace members who have been graduated, assists the administration and student organizations in arranging these programs and awards a trophy to the group that presents the best program of the year.

DRAMATICS

Students interested in drama present several one-act plays and two major productions each year. The students are given training in the arts of the theatre: acting, make-up, scenery-building, costuming, and stage lighting. The College Theatre serves as workshop for experimental productions.

COLLEGE BAND

The College band, organized for the furtherance of instrumental experience, performs at athletic events and gives concerts throughout the year.

The College owns instruments which are used by musicians who do not have their own bass horns, drums, etc. A uniform is provided for each member at the beginning of the year. The band library is constantly supplemented by the best martial and concert music.

CHORAL CLUB

The College maintains a mixed chorus with membership open to all students who pass an elementary voice test. Previous vocal experience and the ability to read music at sight are important but not required of members. The chorus meets once each week for the study of choral literature covering various periods of music history and presents several programs before the College community and the general public each semester.

The Choral Club is directed by a member of the faculty. It elects its student officers and management.

ORCHESTRA

The Wyoming Valley Philharmonic Orchestra, organized under the aegis of the College in the fall of 1951, presents a series of three symphony concerts annually. Membership in the orchestra is open to talented instrumentalists in the student body.

MADRIGAL SINGERS

This small group specializes in the madrigal works of sixteenth- and seventeenth-century European composers. Its Christmas program is one of the most attractive features of the Town & Gown Concert Series at the College.

PUBLICATIONS

Amnicola, a yearbook; the Beacon, a newspaper; and Manuscript, a literary magazine, are published by the students. Those interested in writing, photography, art and advertising have an opportunity to join the staffs.

DEBATING

Debating has proved particularly popular with students preparing for the law or interested in public speaking. A number of intercollegiate debates are arranged each year.

ATHLETICS

Intercollegiate sports schedules are maintained in football, baseball, basketball, soccer, and wrestling. Colleges within the state and in adjacent states are met in these sports. Men may substitute an intercollegiate sport for physical education if they meet departmental requirements.

A program of intramural sports and physical education gives every man an opportunity to participate. Basketball, touch football, volleyball, and bowling are some of the sports available.

The athletic program for women includes dancing, folk and modern; bowling, basketball, softball, and swimming.

CLUBS

Special clubs stimulate and satisfy individual interest in academic, professional, and artistic fields. These clubs, developed cooperatively by students and faculty, are kept quite flexible in order that they may be easily adapted to current interests.

Scholarships and Awards

Scholarships are awarded each year to entering students of outstanding ability and to students of high achievement who require assistance that they may complete their college work.

To retain their scholarships, winners must remain in good scholastic standing, must carry a full schedule of studies, and must conduct themselves in a manner creditable to themselves and to the College.

Scholarships may not be used as an initial payment, but they are accepted for the final balance of each term. A scholarship student who withdraws during the term cancels his scholarship arrangements with the College.

Types of Scholarships

Competitive scholarships are offered each year to students from the first quarter of their high school class who make outstanding records on the scholarship examinations given at the College on the last Saturday in April. All participants in this competition must apply for admission to the College prior to the date of the examination.

Leadership scholarships are offered to young men and women who have combined leadership in student activities with high scholastic achievement. Students seeking these scholarships must apply for admission a week before the scholarship examinations which are offered by the College on the last Saturday in April.

Music and art scholarships are available to a limited number of students who possess marked aptitude for either music or art.

Scholarships

Amnicola Scholarships. Each year the editor-in-chief of the year-book is offered a full-tuition scholarship valued at \$480. Tuition scholarships of \$100 are awarded to the business manager, assistant editor, and picture editor of the publication.

Beacon Scholarships. The editor-in-chief of the College newspaper is awarded an annual full-tuition scholarship worth \$480. The business manager, the news editor, and the feature editor are awarded tuition grants of \$100 each.

Adolph Herskowitz Memorial Scholarship Fund. For a period of years Mr. Ernest Herskowitz is giving funds that will assist a worthy student to gain an education.

William B. Schaeffer Memorial Scholarships. In 1951 a substantial bequest was left to the College by Mr. Schaeffer with the thought that it would be used to advance the interests of the College and the students. By action of the Board of Trustees a considerable portion of the income from this bequest has been set aside for scholarships.

Mr. Andrew J. Sordoni has endowed a scholarship which will be used to assist students of unusual promise and proved ability.

Mrs. Lewis H. Taylor left a bequest to the College for the assistance of worthy students. In appreciation of this gift the Board of Trustees has set aside the income from the bequest to be used in assisting students of outstanding scholastic ability who without assistance could not gain a college education.

Dickson Memorial Scholarships. Funds for four scholarships have been given to the College by the Trustees of the Allan H. and Kate P. Dickson Memorial Trust. These half-tuition scholarships will be granted to students of high scholastic achievement and aptitude who have also demonstrated leadership in student affairs during their high school years.

The William H. Conyngham Memorial Scholarship is awarded annually by Mrs. Conyngham in memory of her late husband, a friend and neighbor of the College, and for years an outstanding leader in business and community life.

Jessie Sturdevant Memorial Scholarship awarded to a student of unusual promise and ability has been made available from the interest of a fund established by the late Miss Sturdevant.

John Welles Hollenback Scholarship. Miss Anna Hollenback has created a scholarship in memory of her father, John Welles Hollenback, and the annual interest of the principal is used for scholarship purposes.

The Richard H. Royer Scholarship is awarded annually to a student who has demonstrated outstanding ability in his studies and in student activities.

Mr. Harland W. Hoisington has given an annual scholarship to assist students of high scholastic ability.

The W. S. Carpenter Memorial Fund was established in 1956 by W. S. Carpenter, Jr., and his sons in memory of W. S. Carpenter, who was born in Wilkes-Barre on April 5, 1853, and lived in this community during his entire active business life. The fund was given to strengthen the work of the science division by subsidizing research projects, assisting the College in attaining able teachers, providing scholarships for outstanding students, providing lectures by speakers of national prominence, purchasing exceptional tools, apparatus or other equipment for use in the science department.

The Business and Professional Women's Club of Wilkes-Barre offers to an outstanding woman student of the College a scholarship each year. The education committee of the club in cooperation with the administration choose a young woman who shows promise of

making an outstanding contribution in business or professional life following graduation.

Theta Delta Rho, the all-college women's service organization, offers a scholarship yearly to a woman student achieving a high score in a competitive examination conducted by the college.

AWARDS

Each year a number of awards are given for outstanding scholarship in selected fields.

The Engineering Award is given by the faculty of the Department of Engineering to the student whose achievement in the two-year engineering course is most outstanding.

The W. F. Dobson Award in Accounting is given to the graduate who has made the most outstanding record in accounting during his four years at the College.

The L. J. Van Laeys Award in Journalism is given to the graduate who has done the most creditable work in journalism courses.

The Wall Street Journal Award is granted to a graduate in commerce and finance for high scholarship in his field of concentration.

The Outstanding Graduate of the Year Award is given by the Wilkes College Alumni Association to the graduate considered by a special faculty committee to have made the strongest contribution to the life of the College.

The Mrs. James McKane Awards of \$25 each are made to the man and woman in the junior class who have ranked highest in their class throughout their first two years of college.

The Pennsylvania Institute of Certified Public Accountants Award is granted to a graduating senior who has received high grades in accounting and demonstrated qualities of leadership in other activities.

The Chemistry Award is presented by the Department of Chemistry to the graduate who has maintained the highest scholastic average throughout the four years of the chemistry course.

The Deans' Scholarship Awards are granted to the man and woman in the graduating class who have excelled in scholarship throughout their four years at the College.

The Wilkes Faculty Women's Award is given to the sophomore woman who has ranked first in her class during her freshman year.

The John Wilkes, Inc., Annual Forensic Award is made annually to the Wilkes student who has demonstrated outstanding ability in the field of forensics during the previous year.



Preparation for Professions and Vocations

Training and skill are required in all fields, but they alone are not enough. The world needs men possessing broad vision as well as technical competence. The telegraph, radio, airplane, and finally atomic research have rendered obsolete the isolated nationalism of yesterday. As science and technology reduce the size of the world and man's mobility increases the tempo of competition, a liberal education becomes a necessity rather than a privilege.

Two thousand years ago, Aristotle wrote: "Educated men are as much superior to uneducated men as the living are to the dead." The character of a man's world has always been determined by his understanding of the motives of other men. To offset the trend of specialization which limits the field of a man's knowledge, the scientist and technologist need increasingly to temper their training with a background in the humanities, the distilled essence of the experience of mankind. Specialized training should be combined with courses that help the student to understand human nature, his own and other men's.

The College offers two opportunities: a general education for life, and specific training for various vocations. The general education develops understanding of our civilization and prepares the student for constructive citizenship. The specific training consists of courses required for selected occupations and professions.

The liberal arts and science courses may be adapted to specific vocations by the selection of congenial fields of concentration and of appropriate electives. A prospective journalist who enrolls for the Bachelor of Arts course may major in one of the social studies and choose electives in English, literature, and other subjects useful in his future

In engineering and in commerce and finance the course of study is, by contrast, primarily technological, although courses from the liberal arts program are required and the choice of electives is left to the individual preference. Students find the engineering course a useful preparation for our mechanized civilization even though they do not make engineering their life work. The curricula in engineering and in commerce and finance will also prepare those who plan to teach these

BUSINESS ADMINISTRATION

Training applicable to most fields of business is offered in the various programs of the commerce and finance curricula.

The commerce and finance curricula cover business principles and practices; they also include electives in liberal arts. This diversification of program enables the student to secure a comprehensive foundation for a business, secretarial, public service, or teaching career. Young men and women with this cultural background find themselves eligible for opportunities closed to those lacking such training.

CHEMISTRY

A steady demand for chemists and chemical engineers comes from industry, government (including the Armed Forces), and education. The variation in kinds of employment is extreme. In industry, the chemist may be in basic or development research; in pilot plant work, production, administration, sales, or personnel. Advanced study is encouraged by the chemical industry; while teaching positions require the B.S. or doctorate degrees.

ENGINEERING

The first two years of work in chemical, civil, electrical, industrial, and mechanical engineering may be taken at Wilkes College. At the end of the second year, students may transfer their credits to other engineering schools. With slight modification of their program, students may complete the first two years of work in such additional types of engineering as aeronautical, mining and metallurgical, and administrative.

JOURNALISM

A number of well-known graduate schools of journalism require a preliminary four-year college course, but aspirants may also follow the old-fashioned method of securing experience on local newspapers and working their way up. Almost any type of college work will be found applicable to the broad demands made upon the newspaper reporter and editor, although English composition is fundamental.

The Bachelor of Arts degree with an English major is the most popular choice of journalism students, but the science and other courses also prove useful, since the newspaper reports all phases of human activity. The increasing interests of the United States in other countries make a knowledge of foreign languages particularly desirable in preparation for responsible positions as foreign correspondents.

Journalism students may gain practical experience by working on the staff of one of the student publications: the Beacon, Amnicola, or Manuscript.

LAW

Preparation for the practice of law is based on the fundamental liberal arts: English, history, political science, economics, sociology, natural science, languages, and mathematics. Most law schools do not specify a required major in undergraduate work.

LIBRARY WORK

Librarians are generally expected to complete a four-year college course before beginning their specialized library training. Foreign languages, English, science, history, economics, sociology, or education constitute appropriate major fields. Many library schools also require a knowledge of two foreign languages. Proficiency in typewriting is desirable.

Music

The aim of the Wilkes music curricula is two-fold: to interest the many in music as an avocation that may lead them to participate actively in musical organizations and to assist the few who have special talents along the road to professional careers as teachers or performers. Although students who concentrate in music may commence their study of applied music at Wilkes, high quality pre-college training is very desirable.

The curriculum leading to the degree of Bachelor of Science in Music Education fully equips students to obtain certificates to teach music in the public schools of Pennsylvania. The Bachelor of Arts degree with a major in music represents the fulfillment of the fundamental purpose of the liberal arts program, "an education for living."

MEDICINE

Wilkes offers a pre-medical course that is adapted to the requirements of the various medical schools. The latter have, in recent years, restricted their enrollment, and most of them scrutinize closely the qualifications of applicants. Medical aspirants should determine as soon as possible, though consultation with the Deans and their advisers, exactly what demands they must meet.

MINISTRY

The various churches differ widely as to the training required of prospective ministers. The pre-theological student should learn the requirements of his denomination and its divinity schools. In general, the liberal arts course, with a major or electives in religion and philosophy, is appropriate.

NURSING

The demand for nurses prepared to assume administrative, supervisory, and instructional duties has for years far exceeded the supply of trained personnel. In consequence, schools of nursing and hospitals are constantly seeking qualified nurses. To enable graduates of approved schools of nursing to obtain the necessary preparation, the College offers a program leading to the degree of Bachelor of Science in Nursing Education. A minimum of sixty-four college credits is needed to fulfill the requirements for the degree.

Extension courses in Nursing Education may be arranged by writing to the Chairman of the Department of Nursing Education.

High School graduates desiring college experience before entering a school of nursing may receive guidance in the selection of a program suited to meet their individual needs.

The College maintains a cooperative relationship with local hospital schools of nursing and provides instruction in the physical, biological and social sciences.

PHYSICS

The first two years of work leading to the degree of Bachelor of Science in Physics may be taken at Wilkes College. After that, students may transfer to other colleges to complete their course. The program at Wilkes has been carefully designed to fulfill the requirements of those colleges to which students are likely to transfer.

In the modern world, the application of physics to everyday life is becoming more and more common but is, perhaps, not sufficiently recognized or understood. The tools of communications, electronics, transportation, the motion picture, illumination, engineering, manufacturing, and medicine (to mention but a few of the many activities of modern industrial civilization) are developed and perfected by the application of the fundamental laws of physics.

PSYCHOLOGY

World Wars I and II stressed the importance of the application of psychology in many diversified fields. Since then the need for graduate work and specialized training has been recognized.

Liberal arts preparation on the undergraduate level, consisting of a sound foundation in psychology, biology, sociology, and related fields, provides an excellent background for work in graduate schools.

Opportunities for the professional psychologist are available in college teaching, clinical work, education, business, and industry.

SOCIAL WORK

The demand for trained social workers has grown enormously in recent years. Taxpayers rebel against the wastefulness of haphazard distribution of charity as a matter of political patronage. Governmental agencies, municipal, county, state, and federal, are realizing the necessity for a professional approach to the problems of unemployment, poverty, and crime. Wilkes offers a pre-social-work program. Sociology, supplemented by work in psychology, biology, and allied fields, provides a valuable background.

SPEAKING AND DRAMATICS

The College offers preliminary work in speech. Courses in speech and

dramatics and practical experience in debating and play production afford opportunity for development in this field.

TEACHING

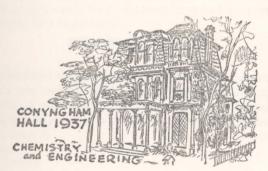
A teacher's training depends upon the kind of teaching contemplated. For college and university work the best institutions require advanced degrees; their faculty members ordinarily take graduate work in the field in which they concentrated as undergraduates. Prospective teachers of English, history, sociology, take the Arts degree; students who expect to teach in the schools of science take the Bachelor of Science degree or degrees in such specialized fields as engineering.

Certification for public-school teaching is usually based on the following requirements: the college degree, specialized courses in education, and a measure of specialization in teaching subjects. Wilkes College is authorized by the State Department of Public Instruction to prepare elementary- and secondary-school teachers in most fields of instruction.

PART-TIME STUDY

Promotion or advancement is often made possible by additional training. It is sometimes practicable for employed persons to continue their education without giving up their positions. In its desire to be of the widest possible service to Wyoming Valley, Wilkes welcomes part-time and special students. (See *Evening Division*, page 146.)

Anyone interested in a career not included in this list of the major professions and vocations should consult the Director of Admissions.



BACHELOR OF ARTS

PURPOSE

The liberal arts program is primarily concerned with individual development and with the cultivation of an understanding of our civilization and of the men who have created it and lived in it. Its studies are concerned with men and events, thoughts and institutions, art and science. It creates breadth and perspective as opposed to narrow skills.

NATURE OF THE PROGRAM

A liberal program must necessarily include a wide range of subjects if it is to cultivate understanding of the thoughts, ideals, and institutions upon which our civilization is based. For the sake of simplicity, these subjects are classified into three divisions in which the student will carry on his explorations and from which he will select his major study.

Divisions

Humanities	Social Sciences	Sciences
Art	Economics	Biology
English	Education	Chemistry
Foreign Languages	History	Physics
Mathematics	Political Science	Psychology
Music	Sociology	
Philosophy	0,	
Religion		

SELECTION OF A MAJOR

To provide depth of knowledge, some concentration is required. It is desirable that a major be elected as early as possible, and it is essential that it be elected before the beginning of the junior year. Students who expect to take the Bachelor's degree in art, biology, mathematics or music choose their major when they enter the College.

A major may be taken in any subject listed in the divisions except chemistry, education, and physics. The requirements for each major are specified in the section headed "Description of Courses" in the catalogue.

A major may also be taken in social science. The social-science major requires a total of thirty-six hours in economics, history, political science, and sociology; eighteen hours must be taken in one of these and at least six hours in each of the other three. Social science courses required in the first two years shall not count toward this major.

Students preparing to teach in the public schools are required to take twenty hours in education to obtain certification. It is therefore impossible for the prospective teacher of social studies to satisfy all of the requirements mentioned above. For that reason, a student preparing to teach social studies in the public schools will receive credit toward the social science major for all required courses in economics, history, political science, and sociology.

Degree Programs

The basic requirements for degree programs are outlined on the following pages. All courses listed are required. Electives may be chosen to satisfy the interests of the students and to meet the requirements for graduation within each major program as conditions may require.

MINIMUM REQUIREMENTS IN CREDITS FOR LIBERAL ARTS MAJORS

HUMANITIES

Major Subject	Major	Humanities	Social Sciences	Sciences	Free Elective
Art	36	32	15	6	30
English	40	24	15	6	35
Foreign Language	24	31	15	6	45
Mathematics	29	34	15	14	30
Music	47	45	15	6	14
Philosophy-Religion	24	37	15	6	38

SOCIAL SCIENCES

Major Subject	Major	Humanities	Social Sciences	Sciences	Free Elective
Economics	24	37	15	6	39
History	24	37	15	6	39
Political Science	24	37	15	6	39
Sociology	24	37	15	6	39
Social Science	36	37	15	6	27

SCIENCES

Major Subject	Major	Humanities	Social Sciences	Sciences	Free Elective	
Biology	31	32	15	31	15	
Psychology		37	15	9	35	

BACHELOR OF ARTS

General requirements for all majors other than art, biology, mathematics, and music

FRESHMAN YEAR

First Semester			Second Semester					
Title Num	ber	Cr.	Title Num	ber	Cr.			
Biological Science ¹ Bio Composition Eng Foreign Language ² 101 or Hist. of W. Civilization Hist	101	3 3 3	Composition Eng Fundamentals of Speech Eng Foreign Language ² 102 of Hist. of W. Civilization	131 r 104	3 2 3 3			
Alternates: Introduction to Music Mus Physical Science	100)	3 1 1	Alternates: Introduction to Music Mus Physical Science ¹ Phys Phys. Ed	100)	3			
Orientation	10)	17	Tels. Hyg	100	16			

SOPHOMORE YEAR

Third Semest	er		Fourth Semester	
Title	Number	Cr.	Title Number	Cr.
World Literature Foreign Language ² Alternates: Fundamentals of Math History of Religions	.103 or 200 .Math 101 .Rel 101	3	World Literature	4 3 9} 3
Intro. to Philosophy ³ Alternates: ⁴ Intro. to Economics Intro. to Education American Federal Govt General Psychology Intro. to Sociology Elective	.Ec 100 .Ed 101 .P.S. 101 .Psy 100 .Soc 100	6	Intro. to Philosophy ³ Phil 101 Alternates: ⁴ Intro. to EconomicsEc 100 Intro. to EducationEd 101 American Federal Govt.P.S. 101 General PsychologyPsy 100 Elective Physical EducationP.E. 104	6
Physical Education	.P.E. 103	17		17

JUNIOR YEAR

Fifth Semester

Sixth Semester

Major and Electives—30 hours

SENIOR YEAR

Seventh Semester

Eighth Semester

Major and Electives—30 hours

¹ Students may substitute a laboratory course in science for Bio, 100 or Phys. 100.

² The level of the course will depend upon the achievement of the student.

³ Philosophy is required in either the third or fourth semester.

⁴ During the third and fourth semesters, nine hours must be chosen from the alternates, with only three hours being allowed for electives. In the event that the scheduling of any of the alternates interferes with the necessary sequence of a major, one or more of the alternates may be delayed, with the approval of the adviser, until the junior year.

BACHELOR OF ARTS

Major in Art

FRESHMAN YEAR

First Semester		Second Semester	
Basic Ant	101 101 100 103	Title Number Cr. Basic Art Art 102 3 Biological Science Bio 100 3 Composition Eng 102 3 History of W. Civilization Hist 102 3 Foreign Language 102 or 104 3 Phys. Ed. P.E. 102 1 Pers. Hyg. P.E. 106 1	
	17	17	

SOPHOMORE YEAR

Third Semest	er		Fourth Semester	
Applied Art. Composition and Color. Foreign Language ¹ Electives in Humanities. Social Science or Psy. Physical Education.	Art 114 103 or 200	3 2 3 3 3	Title Number Applied Art	4 3 5 2 10 3 3

JUNIOR YEAR

Fifth Semester			Sixth Semester			
Title		nber C	r.	CTI I	umber	C
Illustration or	ArtArt hEngEng	211	3 2 4 6 2	Illustration or Art Advertising Design or Art Fine Art Art World Literature Eng Electives in Humanities, Social Science or Psy Studio II	202 212 216	} 3
			1/			10

SENIOR YEAR

Seventh Semester		Eighth Semester	
Illustration or Art	nber Cr. 203 213 217 3 217) 9 3	701.1	mber Cr. 204 214 218 9 3

¹ The level of the course will depend upon the achievement of the student.

BACHELOR OF ARTS

Major in Biology

FRESHMAN YEAR

Title Number Cr. Title Number Cr	First Semester			Second Semester		
Gen. Inorganic Chem. Chem. 101 4	General Zoology. B Gen. Inorganic Chem. C Composition. E College Algebra. M Phys. Ed. P Pers. Hyg. P	io 101 hem 101 ng 101 fath 107 .E. 101	5	Title Num. General Zoology Bio Inorganic Chem. and Qualitative Anal. Chem. Composition Fing Trigonometry Math Phys. Ed. P.E.	102 102 102 109	4 6 3 3 1

SOPHOMORE YEAR

Third Semester			Fourth Semester		
Title Numb Comparative Anatomy of the Vertebrates Bio Inorganic Quantitative Anal. Chem World Literature Eng Hist. of W. Civilization Hist Physical Education P.E.	201 121 151	Cr. 4 4 4 3 1	Title Num Embryology Bio Organic Chem Chem World Literature Eng Hist. of W. Civilization Hist Physical Education P.E.	202 230 152	4 4 4 3
		16			16

JUNIOR YEAR

Fifth Semester Title Number Cr.		Cr.	Sixth Semester	Number	0
HistologyOrganic ChemForeign Language ¹ Introductory Physics	Chem 231	5	Histology B Foreign Language ¹ It Introductory Physics P American Federal Government P Intro. to Sociology So	02 or 104 hys 112	3 4 3
		15			16

SENIOR YEAR

Seventh Sem	ester	Eighth Semester
Title Physiology. Seminar. Introduction to Economics. Foreign Language ¹ . Electives ² .	Bio 291 1 Ec 100 3	TitleNumber Cr.PhysiologyBio2523History of BiologyBio2921Foreign Language¹104 or 2003Electives²9-10
	16-17	16-17

The level of the course will depend upon the achievement of the student.

2 One elective is to be selected from the humanities or social sciences. Botany or Bacteriology electives may be chosen in senior year.

BACHELOR OF ARTS

Major in Mathematics

FRESHMAN YEAR

First Semester		Second Semester		
Title Nu.	mber	Cr.	Title Number	Cr.
Biological Science Bio Composition Eng Foreign Language 101 c Algebra and Trig Matl Phys. Ed. P.E. Pers. Hyg. P.E. Orientation	101 or 103 n 105 101	3 3 5 5	Analytic Geometry Math 122 Elective	2 3 4 3 1

SOPHOMORE YEAR

Third Semester		Fourth Semester			
Intro. to Economics Ec Principles of Economics Ec	101) 151 200 125 100		Title Number World Literature. Eng 152 Foreign Language ¹ . 104 or 200 Calculus II. Math 126 General Physics I Phys 150 Physical Education P.E. 104	2 4 3 3 4 4 9 4	

JUNIOR YEAR

Fifth Semester		Sixth Semester			
	mber	0	Title Nu	nber	Cr.
History of W. Civilization . Hist Mathematics Elective ²	151	3 4	History of W. Civilization . Hist Mathematics Elective	101	3
	1	6-19		1	5-16

SENIOR YEAR

Seventh Semester		Eighth Semester			
			umber Cr.		
Mathematics Elective ² Intro. to MusicMu Elective	s 100 3 9–12	Mathematics Elective ² Elective	3 12		
	-				
	15-18		15		

The level of the course will depend upon the achievement of the student. Math 100, 101, 102, 115, 118 will not count toward a major.

BACHELOR OF ARTS

Major in Music

FRESHMAN YEAR

	FRI	ESHM	AN YEAR		
First Semester		Second Semester			
Title	Vumber	Cr.	Title Nur.	nber	Cr.
Biological ScienceBi	o 100	3	CompositionEng	102	3
CompositionEr	ig 101	3	Foreign Language		3
Foreign Language		3	Music Theory Mus	102	5
Music Theory	us 101	. 5	Applied Music ¹		1
Applied Music ¹		1	Physical SciencePhys	100	3
Phys. EdP.	E. 101	. 1	Phys. EdP.E.	102	1
Pers. Hyg P. Orientation	E. 105	1	Pers. HygP.E.	106	1
		-			
		17			17
	SOP	ном	ORE YEAR		
Third Semester			Fourth Semester		
			ent. Y		-

Third Semester			Fourth Semester					
Title	Number	Cr.	Title	umber	Cr.			
Foreign Language		3 5 1 6 1	Foreign Language		3 5 1 6 1			
		16			16			

JUNIOR YEAR

) '	OIVIOI	K I LIIK		
Fifth Semester		Sixth Semester			
Title Nui	mber	Cr.	Title Nu	mber	Cr.
Fundamentals of SpeechEng	131	2	World LiteratureEng	152	4
World LiteratureEng	151	. 4	Hist. of W. Civilization Hist	102	3
Hist. of W. Civilization Hist	101	3	History of MusicMus	110	3
History of MusicMus	109	3	Applied Music		2
Applied Music ¹		2	Electives in Humanities,		
Electives in Humanities,			Soc. Science or Psych		3
Soc. Science or Psych		3			
		_			-
		17			15

SENIOR YEAR

Seventh Semester			Eighth Semester			
Title Nun	nber	Cr.	Title Nur.	nber	Cr.	
Applied Music¹	215 217	2	Applied Music¹ Orchestration Mus Counterpoint Mus Electives	216 218	2 2 3 9	
		15			16	

¹ Private instruction.

BACHELOR OF SCIENCE IN CHEMISTRY

The chemistry curriculum is planned to provide thorough training in the fundamentals of the science and to contribute to the broad general education of the student. Graduates in chemistry may enter industry immediately upon graduation or may continue their studies in graduate school.

To satisfy the requirements for this degree students must complete one hundred thirty-four credits. These credits include forty-five in chemistry, thirty-two in physics and mathematics, fifteen to twenty-one in the social sciences and psychology, twenty-one to thirty-three in the humanities, and the language requirement.

the language requirement.				
	RESHMA	N YEAR	Second Semester	
Title Number General Inorganic Chem. Chem 10 Composition. Eng 10 Basic Drawing Engi 10 Algebra and Trig. Math 10 Basic Physical Problems Phys 10 Phys. Ed. P.E. 10 Pers. Hyg. P.E. 10 Orientation	01 4 01 3 01 2 05 5 01 1	Composition Analytic Ge General Phy Phys. Ed	& Qual. Anal. Chem Eng cometry Math rsics I Phys P.E.	102 3 122 4
	17			19
Third Semester So:	РНОМО	RE YEAR	Fourth Semester	
Tirle Number Inor. Quantitative Analysis Chem 12 Hist. of W. Civilization Hist 10 Differential Calculus Math 12 General Physics II Phys 15 Physical Education P.E. 10	21 4 01 3 25 4 51 4	Hist. of W. Integral Cal General Phy Elective (op	emistry. Chem Civilization Hist culus. Math rsics III Phys ttional). P.E.	230 4 102 3 126 4
	16			16-19
Fifth Semester	JUNIOR	YEAR	Sixth Semester	
Title (Number Organic Chemistry Chem 2: Physical Chemistry Chem 2: Foreign Language 1 101 or 1: Elec. Measurements Phys 2: Elective	31 5 41 4 03 3	Physical Ch Foreign Lan Stoichiomet	Numitative Analysis Chem emistry	242 4 104 3
Seventh Semester	SENIOR	YEAR	Eighth Semester	
Title Number Qualitative Organ. Anal. Chem 2: History of Chemistry Chem 2: Foreign Language ¹ Electives	33 3	Foreign Lar Chemistry I	Num! iterature Chem iguage¹	

The level of the course will depend upon the achievement of the student. See page 92. Electives are to be selected with the advice and consent of the faculty adviser as follows: *Humanities:* Nine to eighteen credits are to be chosen from the following: Eng. 131, 151, 152; Phil. 101, 102; Mus. 100; Rel. 101; Math. 240. *Social Sciences and Psychology:* Nine to fifteen credits are to be chosen from the following: *Soc.* 100, 107, 205; P. S. 101, 203; Ec. 101, 102; His. 107, 108; Ed. 101, 201, 207; Psy. 100.

BACHELOR OF SCIENCE IN PHYSICS

Wilkes College offers the first two years of work leading toward a major in physics or in engineering physics. The need for men with this type of education was greatly emphasized by the many new problems which needed solution during the recent conflict. The curriculum offers a firm grounding in the fundamentals, without which further study cannot be continued profitably. The course in physics prepares the student for industry, teaching, or research.

FRESHMAN YEAR

First Semester		Second Semester			
Title Nu	nber	Cr.	Title Num	iber	Cr.
General Inorganic Chem. Chem Engineering Problems Engi Composition Eng Elementary German ¹ Ger Algebra and Trig. Math Phys. Ed. P.E. Pers. Hyg. P.E.	100 101 101 105 101	3 3 5 1	General Inorganic Chem. Chem Elementary German ¹ . Ger Analytic Geometry. Math General Physics I Phys Phys. Ed P.E. Pers. Hyg. P.E.	102 122 150 102	3 4 4 1
Orientation		_			_
		19			19

SOPHOMORE YEAR

Third Semester		Fourth Semester			
Title Num	iber	Cr.	Title Num	ber	Cr.
Engineering Drawing Engi Composition Eng Fundamentals of Speech Eng Calculus I. Math General Physics II Phys Physical Education P.E.	102 134 125 151	3 3 4 4	Engineering Drawing. Engi Amer. History since 1865. Hist Calculus II. Math Mechanics I, Statics. M.E. Mechanics II, Dynamics. M.E. General Physics III Phys Physical Education. P.E.	108 126 211 212 152	3 4 3-6 4
		18		1	7-20

¹ Intermediate or scientific German may be substituted when the student is qualified.

BACHELOR OF SCIENCE IN COMMERCE AND FINANCE

The commerce and finance curricula provide training for economic and business activities supplemented by a study of the humanities, sciences, and social sciences. Its objectives are to prepare the student for effective personal, social, and economic life in a competitive society, to aid in the development of an appreciation for cultural pursuits, to broaden the viewpoint, to develop sound thinking and intellectual interests, and to provide technical instruction in preparation for business and professional careers and graduate study.

To insure a well-balanced program faculty advisers assist each student in the choice of his elective studies.

The commerce and finance curricula include four groups of study to meet the individual needs and purposes of the students. These groups are: Group I, Accounting; Group II, Business Administration; Group III, Retailing; Group IV, Secretarial Studies.

GROUP REQUIREMENTS

	GRO	UP REQUIREMENTS	5	
0.1:	Group I	Group II Business Administration	Group III Retailing	Group IV Secretarial Studies
Subjects	Accounting Cr.	Cr.	Cr.	.Cr.
Major	30	24-39	24	23
Commerce and Finance ¹	21	6	30-33	15
Electives	9	15	12	38-39
Humanities	28	28	28	28
Science	6	6	6	6
Social Sciences	33	33-48	24-27	15
Physical Education	on 6	6	6	6
Total	133	133	133	131-132

¹ Does not include major courses.

BACHELOR OF SCIENCE IN COMMERCE AND FINANCE

DEGREE PROGRAMS

Ma	ijor i	in Ac	counting ¹		
F	RESI	HMAN	YEAR ²		
First Semester			Second Semester		
Title Num	ber	Cr.	Title Numb	er	Cr.
Elementary Accounting Acct	101 100 100 101 101 101 105	3 3 3 3 1 1	Hist. of W. Civilization. Hist Amer. Federal Govt. P.S. Physical Science. Phys Phys. Ed. P.E.	102	3 3 3 3 1 1
	OPH		RE YEAR		
Third Semester	0111	OMO	Fourth Semester		
3.7	han	Cr.	Title Numb	ber	Cr.
Intermediate Accounting Acct Business Law B.A. Principles of Economics Ec World Literature Eng Fundamentals of Math Math Physical Education P.E. Fundamentals of Speech Eng	111 231 101 151	3 3 3 4 3 1 2	Advanced AccountingAcct Business LawB.A. Principles of EconomicsEc	112 232 102 152 102 115	3 3 4 3 1
		19			17
	Tr		YEAR		
Fifth Semester	,,		Sixth Semester		
Title Nun	nher	Cr.	Title Num	ber	Cr.
Cost Accounting		3 3 3 3 3	Advanced Cost Accounting Acct Accounting Systems Acct C.P.A. Problems Acct Business Law B.A. Intro. to Philosophy Phil History of Religions Rel Economic Statistics Ec Free Elective.	202 220) 242) 234 101 101 232	3
		18			18
	Si	ENIO	YEAR		
Seventh Semester			Eighth Semester		
	mber	Cr.	Title Nun		Cr.
Tax Accounting . Accounting . Accounting Principles . Accounting Bus. Cor. and Reports . B.A Corporation Finance . B.A Intro. to Music . Mus Free Elective ³ .	. 209	3	Auditing PracticeAcct Theory of MoneyEc Public FinanceEc Economic GeographyEc	232 202 236 226	} 3
		10			4

¹ Practical experience in accounting is required for all students during the summer following the junior year or during the senior year.

2 It is suggested that all students take Typewriting (S.S. 107) during one semester of the freshman year.

⁸ Students intending to sit for the New York State C. P. A. examinations should elect humanity subjects.

BACHELOR OF SCIENCE IN COMMERCE AND FINANCE Major in Business Administration

Major	111	Dusiness	7 Idillillistrat.
	E	DECLIMAN	VEAP1

	FRES	SHMA	IN I EAR		
First Semester			Second Semester		
Title Num Elementary Accounting Acct Survey of Business B.A.	100 100 101 101 101	3 3 3 3		102 102 101 100 102	3 3 3 3 1
		17			17
	SOPI	номо	ORE YEAR		

		SOPE	HOMORE	LEAR	
	Third Semester				F
Title	1	<i>Jumber</i>	Cr.	Title	

	S	OPH	IOMC	DRE YEAR		
Third Semest	er			Fourth Semester		
Title	Num	ber	Cr.	Title Num		Cr.
Business Law. Principles of Economics Fundamentals of Speech World Literature Fundamentals of Math Physical Education	.Ec .Eng .Eng .Math	101 131 151 101	3 3 2 4 3 1	Business Law. B.A. Principles of Economics Ec World Literature Eng Alternates: Fundamentals of Math. Math Mathematics of Finance Math Intro. to Music Mus Physical Education P.E.	102 152 102 115 100	3 3 4 3 3 1

	Iu	NIOR	YEAR		
Fifth Semester			Sixth Semester		
Title	Number	Cr.	Title Num Alternates:	iber	Cr.
Money and Banking	Ec 231	3 3 6	Theory of Money	202 226 232	3
rice Electives			Alternates: Intro. to Philosophy Phil History of Religions Rel Marketing B.A. Free Elective	101) 101) 222	
		18			15

SENIOR YEAR

Seventh Semester	Eighth Semester		
Title Number Bus. Cor. and ReportsB.A. 209 Bus. Adm. and Ec. Electives ¹ Free Elective		Title Bus. Adm. and Ec. Electives ¹ Free Elective	Cr. 12 3
	18		1)

¹ See footnote next page.

Students who major in business administration will select their electives from the following:

BANKING AND FINANCE1

DEGREE PROGRAMS

7	Namhor	Title	Num	ber
Title Credits and Collections. B. Real Estate. B. Corporation Finance. B. Investments. B.	.A. 218 .A. 220 .A. 225	Theory of MoneyPublic FinanceMathematics of Finance I	EC	230

ECONOMICS1

77:-1	Number	Title	umber
Government and Business	Ec 212 Ec 223 Ec 225 Ec 226 Ec 229	Public Finance	238 241 245

Management and Industrial Relations¹

771.1	Num	aber	Title	Num	iber
Title Industrial Management. Personnel Management. Production Management. Office Management Sales Management. Property Insurance.	.B.A. .B.A. .B.A. .B.A.	235 236 237 238 239	Life Insurance. Labor Problems. Applied Psychology Hist. and Devel. of Psychometric Methods	Ec Psy	206

MARKETING1

Title	Nun	her	Title	nber
Salesmanship Advertising Transportation Marketing	B.A. B.A. B.A.	114 216 217	Sales Management	225 245

¹ At least six courses in this group are required of students concentrating in this field.

BACHELOR OF SCIENCE IN COMMERCE AND FINANCE

Major in Retailing

Freshman Year¹

First Semester			Second Semester		
Title Nun	aber	Cr.	Title Num	zber	Cr.
Elementary AccountingAcct	101	3	Principles of AccountingAcct	102	3
Biological ScienceBio	100	3	CompositionEng	102	3
Survey of BusinessB.A.	100	3	Hist. of W. CivilizationHist	102	3
CompositionEng	101	3	Physical SciencePhys	100	3
Hist. of W. CivilizationHist	101	3	Amer. Federal GovtP.S.	101	3
Phys. Ed	101	1	Phys. Ed	102	1
Pers. Hyg	105	1	Pers. Hyg	106	1
Orientation					-
		17			17

SOPHOMORE YEAR

Third Semester		Fourth Semester			
Title Num	ber	Cr.	Title Num	ber	Cr.
Business Law. B.A. Principles of Economics Ec World Literature Eng Fundamentals of Math Math Elective in Retailing Physical Education P.E.	101 151 101	3 4 3 3 1	Business Law. B.A. Principles of Economics. Ec World Literature. Eng Fundamentals of Math. Math Elective in Retailing. Physical Education. P.E.	102 152 102	3 4 3 3
		17			17

JUNIOR YEAR

Fifth Semester			Sixth Semester		
Title	mber	Cr.	Title	mber	Cr.
Applied General StatisticsEc Fundamentals of SpeechEng	231 131	3 2	Intro. to MusicMus Alternates:	100	3
Electives in Social Science Electives in Retailing or		3	Intro. to PhilosophyPhil History of ReligionsRel	101)	} 3
Com. & Fin		9	Electives in Retailing or Com. & Fin	222	6
			MarketingB.A.	222	3
					-
		17			18

SENIOR YEAR

	_				
Seventh Semest	ter		Eighth Semeste	r	
Title	Number	Cr.	Title	Number	Cr.
Bus. Cor. and Reports	Soc 100	3 3 6	Electives in Retailing or Com. & Fin Free Electives		6 9
		_			
		15			15

BACHELOR OF SCIENCE IN COMMERCE AND FINANCE

Major in Secretarial Studies

FRESHMAN YEAR

	First Semester		Second Semester				
	Title Nun	aber	Cr.	Title Nun	nber	C	r.
Co Hi Fu Ph Pe	rvey of Business B.A. Imposition Eng st. of W. Civilization Hist Indamentals of Math Math Instruction P.E. I	101 101 101 101 101	3 3 3 1 1 3-4	Biological Science Bio Composition Eng Hist. of W. Civilization Hist Fundamentals of Math Math Phys. Education P.E. Pers. Hyg. P.E. Elective	102 102 102 102		3 3 2 1 1 3
		- 1	7-18			1	17

SOPHOMORE YEAR

Third Semester		Fourth Semester			
Title Na	mber	Cr.	Title Nun	aber	Cr.
Elementary Accounting Acc	t 101	3	Principles of AccountingAcct	102	3
Advances ExpositionEng	105	3	American Federal Government P.S.	101	3
Fundamentals of Speech Eng		2	Physical SciencePhys	100	3
Intro. to Music		3	Shorthand and Typewriting . S.S.		
Shorthand and TypewritingS.S.	101	4	Free Elective		3
Physical Education P.E		1	Physical Education P.E.	104	1
		16			17

JUNIOR YEAR

Fifth Semester			Sixth Semester		
Title Nu	mber	Cr.	Title Nu	mber	Cr.
Principle of Economics Ec	101	3	Principles of Economics Ec	102	3
World Literature Eng	151	4	World Literature Eng	152	4
Advanced Stenography S.S.		4	Advanced Stenography S.S.	110	4
Electives		6	Electives		6
		17			17

SENIOR YEAR

Seventh Semeste	er		Eighth Semester		
Title	Number	Cr.	Title Nun	nber	Cr.
Bus. Cor. and Reports B. Office Proc. & Machines S			Office Management B.A. Alternates:	238	3
Electives		8-9	Medical Stenography S.S. Speech Reporting S.S. Free Electives	200 203	3 9
	1	5-16			15

The candidate for a degree with a major in medical stenography should consult with her adviser before planning a program of study. The following science courses are required: Chem. 101, Bio. 251-252, to provide the necessary background for work in a medical office.

BACHELOR OF SCIENCE IN SECONDARY EDUCATION

The program outlined below is designed to prepare students for certification in most states. Students are expected to familiarize themselves with specific state requirements.

Students working for the B.S. in Secondary Education are those who plan to teach in one or two of the following secondary school teaching fields: English, history, language(s), mathematics, science, or social studies. They are expected to build up a concentration of at least 30 hours in one of these fields and at least 18 hours in a supporting field.

FRESHMAN YEAR

First Semester			Second Semester	1 C.	,
Title Num Composition Eng Science Elective¹ Mathematics Elective¹ American Federal Government P.S. Elective¹ Phys. Ed. P.E. Pers. Hyg. P.E. Orientation	101 101 105	3 3-5 3-5 3 0-3	Title Num Composition Eng Science ¹ Soc Elective ¹ Phys. Ed. P.E. Pers. Hyg. P.E.	100 3	3 3-6 3 1 1

SOPHOMORE YEAR

Third Semester			Fourth Semester				
Title Nun	131	3 2 4 6	Title Num Intro. to Economics Ec World Literature Eng General Psychology Psy Electives Physical Education P.E.	100 152 100 104	3 4 3 5-6		

JUNIOR YEAR

Fifth Semester			Sixth Semester		
Title Nu	mber 201 107	3	Title Nun U.S. History since 1865 Hist Child Psychology Psy Electives	108	3

SENIOR YEAR

Seventh Semester			Eighth Semester		
	nber 101 204	3		Number 1 205 1 207	3 8

1 Electives shall be selected or omitted so that the total number of hours shall not exceed the maximum number of credits allowed for each term.

BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION

	Enre	TTATAN	YEAR Second Semester		
1.1121 2011003101			NT	ber C	
Title Num	iber C	r.	1 2116		3
Composition	101	3	Biological ScienceBio	100	3
Hist. of W. CivilizationHist	101	2	CompositionEllg	102	3
Physical Science	100	3	Hist. of W. CivilizationHist	100	3
American Federal Government P.S.	101	3	Intro. to Sociology Soc	100	3
Music	100	3	Elective P.E. Phys. Ed	102	1
Phys Ed	101	1	Pers. HygP.E.	106	1
Pers. HygP.E.	105	1	Pers. Hyg		_
Orientation		17			17
	CODI	OMOI	RE YEAR Fourth Semester		
Third Semester	SOPH	IOMOI	CE TERR FOUTTIN Semester	aber C	~
Title Nur.	nber	Cr.	Title		
Intro. to Economics Ec	100	3	World LiteratureEng	152	4
Intro. to EducationEd	101	3	Intro to Music	100	3
Fundamentals of SpeechEng	131	2	Intro. to PhilosophyPhil	100	3
World LiteratureEng	151	4	General Psychology Psy	100	2-3
Elective		3	Elective	104	1
Physical EducationP.E.	103	1	Physical Education	-	
		16		16	-17
		10			
	Tv	TATIOD	YEAR Sixth Semester		
Fifth Semester)(NIOR	NT.	mber	Ce
Title Nu	mber	Cr.	1 2116		
	201	3	U.S. History since 1865 Hist	108	3
Educational Psychology Ed U.SPa. History to 1865 Hist			Child Psychologyrsy	207	9
Electives		9	Electives		
Electives		_			15
		15			
			77		
Seventh Semester	S	ENIO	YEAR Eighth Semester		
AT.	umber	Cr	Title	umber	Cr.
11000			Student Teaching Ed	209	
Student Teaching Ed	208		Vienal Education	212	-
Teaching of Reading Ed	238		Teaching of ArithmeticEd	232	-
Elementary Curriculum Ed	24		Principles of Elem. EdEd	237	_
Art in the Elem. Sch Ed Music in the Elem. Sch Ed	24	-	Teaching of El. Sch. SciEd	239	
Health and P.E. in the E.S Ed	24	3 2			ALCOHOL:
Health and I .I		-			15

BACHELOR OF SCIENCE IN BUSINESS EDUCATION

The degree of Bachelor of Science in Business Education is designed to provide a background in general education while it prepares the student for teaching the business subjects in the public secondary schools or for a career in business. The program that is outlined will meet the requirements of the state of Pennsylvania for certification in bookkeeping, shorthand, typing, office practice, economics, commercial law, business English, commercial arithmetic, and in the social studies if both sociology and political science are elected. Students preferring to be certified in salesmanship or retail selling may modify the course through consultation with their advisers.

FRESHMAN YEAR

	T Trans					
First Semester			Second Semester			
	107 100 101 101 101	3 3 3 3		102 100 100 100) 101) 102	3 3 3 3	
			1010. 12, 8		17	
		17			1/	

SOPHOMORE YEAR

Third Semester			Fourth Semester			
Title Nun	aber	Cr.	Title Num	iber	Cr.	
Elementary AccountingAcct		3	Principles of AccountingAcct	102	3	
or Elective	101	3	Principles of Economics Econ	102	3	
Principles of Economics Econ	101	3	U. S. Hist. since 1865Hist	108	3	
Intro. to Education Ed	107	3	General Psychology Psy	100	3	
U.SPa. History to 1865Hist		4	Shorthand and Typewriting S.S.	102	4	
Shorthand and TypewritingS.S.	101	4	or Elective			
or Elective Physical Education P.E.	103	1	Physical Education P.E.	104	1	
		17			17	

JUNIOR YEAR

Fifth Semester			Sixth Semester			
Title	Number	Cr.	Title	mber	Cr.	
Intermediate Accounting or Elective Business Law	Acct 111	3	Advanced Accounting Acct or Elective Business Law B.A. Office Management B.A	. 232	3 3 3	
Educational Psychology English Elective E Intermediate Stenography or Elective	ng 151 or 153	3 4-3	English Elective Eng 152 Advanced Stenography S.S. or Elective	or 154	4-3	
OI Elective					-	
	1	7-16		1	7-16	

SENIOR YEAR

	0.20						
Seventh Semester			Eighth Semester				
Title Nu	nber	Cr.	11110	mber	Cr.		
Bus. Corres. and ReportsB.A. Bus. Education and Methods	209	3	Visual Education Ed Sec. School Curriculum Ed	212 205	3		
of Instruction in S.S S.S.	243	3	Student TeachingEd	207	8		
Intro. to PhilosophyPhil Office Procedures and	101	3	Elective)		
Machines	205	4					
Elective		3					
Licetio					15		
		16			13		

Provisional College Certificates will be issued by the Commonwealth of Pennsylvania to graduates of the course in business education. Certification will be offered in business subjects only as the following requirements

are met:
Bookkeeping
Commercial Law 6 semester hours
Commercial Law
Commission A mithemetic
3 semester hours
Office Practice
of it is
The state of the s
Economics 6 semester hours
Economics Genesia I
Business English
the twelve (12) semester hours in English
the twolve (12) semester nours in English

plus twelve (12) semester hours in English

Certificates are valid for teaching only those business subjects which are written on the certificate.

BACHELOR OF SCIENCE IN MUSIC EDUCATION

The Bachelor of Science degree with a major in music education is designed for students wishing to teach music in the public schools. Students following the four-year curriculum will have all of the requirements necessary to obtain a teacher certificate in music education in Pennsylvania and in many other states. The curriculum will also enable the student to become a proficient performer through the study of applied music subjects.

L. 13	TOOTT	BEART	V T2 A 7	
1.16	COL	MAN	YEAR	X.

First Semester		Second Semester			
Title Nun	aber	Cr.	Title Num	ber	Cr.
Composition . Eng Fundamentals of Speech . Eng Music Theory . Mus Clarinet Class and Band Mus Methods or . Ed Brass Class and Band Mus Methods . Ed	101 131 101 101	3 2 5	Composition Eng Music Theory Mus Clarinet Class and Band Mus Methods or Ed Brass Class and Band Mus Methods App	102 102 102 104	3 5 2
Major Instrument Mus Band, Orchestra, Chorus Elective Phys. Ed. P.E. Pers. Hyg. P.E. Orientation		1 ½ 3	Major Instrument Mus Band, Orchestra, Chorus Physical Science Phys Elective Phys. Ed. P.E. Pers. Hyg. P.E.		1 1/2 3 3 1 1
Orientation		$18\frac{1}{2}$			19½

SOPHOMORE YEAR

Third Semester		Fourth Semester			
Title Nun	nber	Cr.	Title Num	iber	Cr.
World Literature Eng Music Theory Mus Music History Mus App			World Literature Eng Music Theory Mus Music History App		5 3
Major Instrument	101	1 3 ½ 1	Major Instrument Mus Band, Orchestra, Chorus	100 104	1 ½ 3 1
		17½		1	17½

	Ju	JNIO	R YEAR		
Fifth Semester			Sixth Semester		
Title Nun	nber	Cr.	Title	ber	Cr.
Educational Psychology Ed U.S. and Pa. Hist. to 1865 Hist	201		U.S. History since 1865Hist Mus	108	3
Mus			Brass Class Methods Ed	106	2
Woodwind Class Methods Ed Mus	105	2	Conducting (Choral) Ed	110	2
Conducting (Instrumental) Ed	109	2	Violin Class and Methods Ed	112	2
Violin Class and Methods Ed	111	2	App		1
Major Instrument Mus Band, Orchestra, Chorus		1 1/2	Major Instrument Mus Band, Orchestra, Chorus Elective		1/2
Elective		3	Ziccive		
		16½			16½

	SE	NIOR	YEAR		
Seventh Semester		Eighth Semester			
Title Nun.	aber	Cr.	Title Nun	nber	Cr.
Principles of Secondary Ed	204)		Visual EducationEd	212	1
Education or Principles of ElementaryEd	237	3	OrchestrationMus Mus	216	2
Education InstrumentationMus	215	2	Voice Class and Methods Ed String Instrument Class Mus	108	2
Mus	213	2	and Methods Ed	114	2
Voice Class and Methods Ed String Instrument Class and Mus	107	2	Observation and Practice Mus	204	1
Methods Ed	113	2	Treaching Ed	204	4
Observation and Practice Mus			Major Instrument Mus		1
Teaching Ed	203	4	Band, Orchestra, Chorus		1/2
Major Instrument Mus Band, Orchestra, Chorus		1 1/2	Elective		3
	1	41/2		1	51/2
					-/ 41

BACHELOR OF SCIENCE IN NURSING EDUCATION

The program in nursing education is designed for the preparation of instructors, head nurses, and supervisors in hospitals and schools of nursing. It presupposes graduation from an approved school of nursing and State registration. Credits required for the degree are one hundred twenty-four, of which at least sixty-four must be college credits. The number of credits allowed for the school of nursing program ranges from forty to sixty and will be determined by an evaluation of the student's record and by results obtained on the Graduate Nurse Qualifying Examination Graduate Nurse Qualifying Examination.

JUNIOR YEAR

First Semester			Second Semester		
Title Nun	nber	Cr.	Title Nun	nber	Cr.
CompositionEng Amer. and Penna. History	101	3	Biological ScienceBio Educational PsychologyEd		
to 1865 ² Hist	107	3	CompositionEng	102	3
Foundations of NursingN.E.		2	American History since 18652. Hist	108	3
Physical SciencePhys	100	3	Community NursingN.E.	104	2
General Psychology Psy	100	3	Supervision and AdminN.E.	106	2
Sociology Soc	100	3			
		_			-
		17			16

SENIOR YEAR

SENIOR 1 EAR					
Third Semester			Fourth Semester		
Title	nber	Cr.	Title Nun	nber	Cr.
Educational MeasurementsEd			GuidanceEd	214	2
Visual EducationEd	212	. 1	Fundamentals of SpeechEng		
World LiteratureEng				102	2
Prin. and Meth. in N.EN.E.		2	Field ExperienceN.E.	112	4
Electives ³		6-7	Electives 3		5-6
	-			-	
	1	5-16		1	5-16

² Hist. 101 and 102 may be substituted for Hist. 107 and 108.

³ Electives may be selected from academic subjects (Economics, Political Science, Psychology, Sociology) or Nursing Education courses with approval of the adviser.

BACHELOR OF SCIENCE IN ART EDUCATION

This program is designed to prepare students for certification as public school teachers in the field of art. It has been approved by the Commonwealth of Pennsylvania, but students wishing to teach art in other states should determine the requirements of the state in which they wish to teach so that specific requirements of that state may be satisfied through the choice of additional courses.

	Cr.
102	3
102	3
100	3
102	3
	3
	1
	102 102 100 102 102 102 106

	SOPH	ОМО	RE YEAR		
Third Semester			Fourth Semester		
Title Nu	nber	Cr.	Title Num	ber	Cr.
Applied ArtArt	103	3	Applied ArtArt	104	3
Applied ArtArt Hist. of ArtArt	111	3	Hist. of ArtArt		3
Intro. to EdEd	101	3	World LitEng		4
World LitEng	151	4	General Psych	100	3
Amer. Fed. GovP.S.	101	1	Phys. Ed P.E.		1
Phys. EdP.E.	103	1	1 11y 5. 12d		

	Iu	NIOR	YEAR		
Fifth Semester	, -		Sixth Semester		
	aber	Cr.	Title Nu	mber	Cr
Fine Arts Art Graphic Art. Art Intro. to Econ. Econ Ed. Psych. Ed U.S. and Pa. Hist. Hist	241 100 201	3 3	Fine Arts Art Graphic Art Art U.S. Hist Hist Child Psych Psy Elective*	216 242 108 207	4 2 3 3 3 3 3
		15			15

	SE	NIOR	YEAR		
Seventh Semester			Eighth Semester	r	
Title Nu	mber	Cr.	Title	Number	Cr.
Arts of PresentationArt Prin. and Math. of	243	3	Student Teaching E Visual Ed	d 212	
Secondary Ed Ed Fund. of Speech Eng	204	3	Teaching of ArtE	d 221	3
Intro. to PhilosophyPhil	101	3			
Intro. to MusicMus Elective*	100	3			
		17			15

*Nine hours of electives must be taken in three different fields.

BACHELOR OF SCIENCE IN ENGINEERING

Wilkes College offers the first two years of the engineering curricula. Upon completion of the second year, students making acceptable records may transfer to the junior year of other engineering schools.

In the past, students have transferred to, and successfully completed their work at, such representative colleges as Alabama, Bucknell, Catholic University, Columbia, Cornell, Drexel, Georgia School of Technology, Lafayette, Lehigh, Massachusetts Institute of Technology, New York University, Pennsylvania State College, Purdue, Stevens Institute, Syracuse, and the University of Nebraska

The engineer's main purpose is to apply scientific knowledge and discoveries to the uses of civilization. The engineer is obliged to specialize because of the vast range of modern engineering techniques. In selecting his particular field, the student should consider his natural interests. The demands of this profession are exacting, but it should appeal to those genuinely interested in mathematics and the natural sciences and in their application.

The following general distinctions may be made between the various fields: research appeals to the imaginative mind; the more practical person may be interested in development and design; others find satisfaction in the tangible results of construction, operation, and production. Technically trained men are always needed to sell applications and equipment. As his experience broadens and his judgment matures, the engineer qualifies for the higher executive and administrative positions.

During the first year the curricula for all engineering courses are the same with the exception of chemical engineering, in which course students must take two additional hours of chemistry in the second semester. For this reason the student should decide by the middle of the first year between chemical engineering and one of the other branches of engineering. The curricula change further at the beginning of the second year. For this reason the student should decide by then whether he will pursue civil, industrial, electrical, or mechanical engineering.

Minimum Requirements in Semester Hours.

Freshman Year

(COMMON TO ALL ENGINEERING COURSES)

First Semester		Second Semester		
Title Number	Cr.	Title Num	ber	Cr.
General Inorganic ChemChem 101 Engineering and Orientation	4	Alternates: 1 Inor. Chem. & Qual. Anal Chem General Inorganic Chem Chem	102	1_6
Problems Engi 100 Engineering Drawing and	2	General Inorganic ChemChem Drawing & Des. GeometryEngi	104	2
Des. GeometryEngi 105	3	CompositionEng	102	3
CompositionEng 101 Algebra and TrigMath 105	5	Analytic Geometry Math General Physics (Mech.) Phys	150	4
Phys. Ed. P.E. 101 Pers. Hyg. P.E. 105	1	D.F.	102	1
Orientation	19		19	9-21

AERONAUTICAL ENGINEERING

Mechanical engineering is basic to the study of aeronautical engineering. Therefore, the first two years in mechanical engineering prepare the student for the advanced work offered by several universities.

CHEMICAL ENGINEERING

Chemical engineering is concerned with the broad field of chemical industry in which materials undergo a physical or a chemical change. Such materials include paper, textiles, gasoline, other petroleum products, coke, gas, dyes, electrochemical products, paints, rubber, plastics, ceramics, drugs, heavy chemicals, solvents, and many others. The chemical engineer is one skilled in the design, construction, operation and management of industrial plants in which materials are produced by chemical change. The chemical engineer may be engaged in research or in the development of a process, for he is expert in the application of the fundamental unit-manufacturing processes which underlie all chemical engineering. The equipment of the chemical engineer includes a thorough knowledge of chemistry, physics and mathematics and a sound understanding of such fundamentals of chemical, mechanical, and electrical engineering as will make him a competent development, control or sales engineer.

SOPHOMORE YEAR²

Third Semes	ter		Fourth Semeste	r		
Title	Number	Cr.	Title	Numb	ber	Cr.
Inor. Quant. Analysis	Chem 121	4	Stoichiometry	Ch E	106	3
Intro. to Economics	Ec 100	3	Calculus II	Math	126	4
Fundamentals of Speech		3	Mechanics I, Statics			3
Calculus I	Math 125	4	Mechanics II, Dynamics	M.E.	212	3
General Physics		4	General Physics	Phys	152	4
Physical Education		1	Physical Education	P.E.	104	1
I ily sical Education						_
		19				18

1 Chemical engineers will register for Chem. 102 (six hours). All other engineering students will register for Chem. 104 (four hours).

CIVIL ENGINEERING

The civil engineer deals with problems in structural, highway, railroad, hydraulic, and sanitary engineering, and also with surveying and geodesy. He specializes in the design, construction and maintenance of bridges, tunnels, dams, and the structural members of buildings. His services are indispensable in the design of river, canal, and harbor improvements; in the development and control of water resources; in the treatment and disposal of sewage and industrial waste; and in the location and construction of all transportation facilities

SOPHOMORE YEAR¹

Third Semester			Fourth Semester		
Title Nur	nber	Cr.	Title Num	iber	Cr.
Plane Surveying C.E.	103	3	Route Surveying	104	4
Intro. to EconomicsEc	100	3	Calculus II	126	4
Fundamentals of Speech Eng	134	3	Mechanics I, StaticsM.E.	211	3
Calculus I	125	4	Mechanics II, DynamicsM.E.	212	3
General Physics IIPhys	151	4	General Physics IIIPhys	152	4
Physical Education P.É.	103	1	Physical EducationP.É.	104	1
		-			
		18			19

ELECTRICAL ENGINEERING

Today nearly every activity of civilized life depends upon electricity. The electrical engineer is trained to design, construct, and operate all electrical generating equipment. He must supervise and control the distribution of electricity for driving the machinery in mills, factories, and mines; for electric railways, chemical processing, heating, lighting, and for all electrical devices used in the home.

The communications field, including telegraph, telephone, radio, radar, teletype, transmission of print and pictures, offers numerous opportunities. Development of electronic tubes, transistors, circuits, and equipment for commercial processes offers opportunities in many fields of endeavor.

SOPHOMORE YEAR¹

Third Semester		Fourth Semester Title Number				
Title Num	sber	Cr.	Title Nun	nber	Cr.	
Plane Surveying C.E.	103	3	Calculus II Math	126	4	
Intro. to EconomicsEc		3	KinematicsM.E.	206	3	
Fundamentals of SpeechEng		3	Mechanics I, StaticsM.E.	211	3	
Calculus IMath	125	4	Mechanics II, DynamicsM.E.	212	3	
General Physics IIPhys	151	4	General Physics IIIPhys	152	4	
Physical EducationP.E.	103	1	Physical EducationP.É.	104	1	
					-	
		18			18	

² For freshman year see above.

¹ For freshman year see page 72.

INDUSTRIAL ENGINEERING

The field of industrial or management engineering has to do with the methods of manufacture and production; the effects thereon of personnel; and design control to meet cost and production requirements. Preparation with a background in science, engineering, economics, business administration, management, and history is necessary. The successful industrial engineer must possess not only technical skill and ability but also economic and humanistic interests, as well as character and personality. He must work with others and enlist their co-operation in the pursuit of a common goal. The industrial engineer deals with people as well as with machines and materials. This curriculum offers the first two years of work for those primarily interested in the administration of technical enterprises.

SOPHOMORE YEAR¹

	- L	A CO A CA			
Third Semester			Fourth Semester		
Title Nun	aber	Cr.	Title Num		
Principles of EconomicsEc	101	3	Principles of EconomicsEc	102	3
Fundamentals of SpeechEng	134	3	Calculus II Math	126	4
Calculus IMath	125	4	Mechanics I, StaticsM.E. Mechanics II, DynamicsM.E.	212	3
General Physics II	100	3	General Physics IIIPhys	152	4
General Psychology Psy Physical Education P.E.	103	1	Physical EducationP.E.	104	1
I llysical Education.		_			10
		18			18

MECHANICAL ENGINEERING

The mechanical engineer is concerned with the design, construction, installation, and operation of machinery necessary for the economical application of mechanical power to industry. He must utilize power from whatever source derived. The generation of power, whether by steam, hydro or internal-combustion engines is of primary concern to the mechanical engineer in the power field. His services are necessary wherever process equipment and machine tools are made or used. tools are made or used.

The mechanical engineer must of necessity be broadly trained in the fundamental sciences and in economics and humanities. Ability and skill in the application of the basic sciences are not sufficient. He must have an understanding of the influence of his profession upon our way of life and how its development and expansion affect our future.

	3	OPH	OMC	KE I EAR			
Third Seme	ster			Fourth S	emester		
Title		ber	Cr.	Title			
Plane Surveying	CE	103	3	Calculus II	Math	126	4
Intro. to Economics	Fc	100	3	Kinematics	M.E.	206	3
Intro. to Economics	Eng	134	3	Mechanics I, Statics	M.E.	211	3
Fundamentals of Speech	Math	125	4	Mechanics II, Dynamic	sM.E.	212	3
Calculus I	Dlass	151	1	General Physics III	Phys	152	4
General Physics II	Phys	102	1	Physical Education	P.É.	104	. 1
Physical Education	P.E.	103	1	Filysical Eddeation			
							18
			18				20

¹ For freshman year see page 72.

Terminal Programs

LABORATORY AND MEDICAL TECHNOLOGY

The following requirements for laboratory technicians or medical technologists are those set forth by the Registry of Medical Technologists of the American Society of Clinical Pathologists. Students who complete this terminal curriculum are eligible to apply for registration.

MINIMUM REQUIREMENTS

Biology:

Twelve semester hours, of which ten hours must be in zoology. Additional courses which may be taken to fulfill this requirement are histology, embryology, comparative anatomy, physiology, bacteriology, and hygiene.

Twelve hours of general inorganic chemistry, including laboratory work. Four hours of quantitative analysis, including laboratory work.

Electives:

Sufficient to give a minimum of sixty semester hours of college credit. The following courses are recommended, but not required: physics, organic chemistry, histology, embryology, physiology, and comparative anatomy.

FRESHMAN YEAR

First Semester			Second Semester		
Title Numb General Zoology. Bio General Inorganic Chem. Chem Composition. Eng College Algebra Math Phys. Ed. P.E. Pers. Hyg. P.E. Orientation	101 101 101 107 101	Cr. 5 4 3 3 1 1 1 17	Title Numb General Zoology Bio Inorganic Chem. and Qualitative Anal Chem Elective Eng Phys. Ed. P.E. Pers. Hyg. P.E.	102 102 102 102	4 6 3 3 1

SOPHOMORE YEAR

Third Semester		Fourth Semester	
Title Number Bacteriology	4 4 7-8	Title Num Bacteriology Bio Organic Chem Chem Electives¹ Physical Education P.E.	7-8 104 1
16	5-17		16-17

PRE-DENTAL

(Two years)

The following pre-dental curricula are recommended as fulfilling the requirements established by the majority of colleges of dentistry. The three-year curriculum is less condensed and permits a more complete preparation in chemistry and biology.

FRESHMAN YEAR

First Semester		Second Semester			
Title General Zoology General Inorganic Chem. Composition College Algebra Phys. Ed. Pers. Hyg. Orientation	Number . Bio 101 . Chem 101 . Eng 101 . Math 107 . P.E. 101	5 4 3 3 1	Title Number General Zoology Bio 102 Inorganic Chem. and Qualitative Analysis Chem 102 Composition Eng 102 Trigonometry Math 102 Phys. Ed. P.E. 10 Pers. Hyg. P.E. 10	2 6 2 3 9 3 2 1	

SOPHOMORE YEAR

Third Semester			Fourth Semester			
41 21 .11 .51 .01 .03	3 4 4 4 3 1	Title Num Histology Bio Organic Chemistry Chem Introductory Physics Phys Alternates: World Literature Eng Hist, of West, Civ. Hist	242 230 112 152 102 104	3 4 4 4		
	41 21 11 51 01 03	21 4 11 4 51 4 01 3	r Cr. Title Num. 41 3 Histology Bio 21 4 Organic Chemistry Chem 11 4 Introductory Physics Phys Alternates: Alternates: Eng 01 3 Hist. of West. Civ Hist. 03 1 Physical Education P.E.	r Cr. Title Number 41 3 Histology Bio 242 21 4 Organic Chemistry. Chem 230 11 4 Introductory Physics. Phys 112 Alternates: Alternates: Eng 152 01 3 Hist. of West. Civ. Hist. 102 03 1 Physical Education. P.E. 104		

¹ At least one elective each semester must be in the humanities or social sciences.

PRE-DENTAL

(Three years)

FRESHMAN YEAR

First Semester	Second Semester				
Title	ımbe r	Cr.	Title Nun	aber	Cr.
General ZoologyBio	101	5	General ZoologyBio	102	4
General Inorganic ChemChe	m 101	4	Inorganic Chem. and		
CompositionEng	101	3	Qualitative AnalysisChem	102	6
College AlgebraMat		3	CompositionEng	102	3
Phys. Ed		1	Trigonometry Math		3
Pers. HygP.E.		1	Phys. Ed		1
Orientation			Pers. HygP.E.		1
					_
		17			18

SOPHOMORE YEAR

Third Semester	Fourth Semester				
Title Nun	aber	Cr.	Title Num	ber	Cr.
Basic ArtArt	101	3	Basic ArtArt	102	3
Comp. Anatomy of the Vert Bio	201	4	EmbryologyBio	202	4
Inorg. Quantitative AnalChem	121	4	Organic ChemistryChem	230	4
World Literature Eng	151	4	World Literature Eng	152	4
Physical Education P.E.			Physical Education P.E.	104	1
					_
					20

JUNIOR YEAR

Fifth Semester			Sixth Semester		
Title Num	ber	Cr.	Title Num	ber	Cr.
Bacteriology Bio	211	4	BacteriologyBio	212	4
HistologyBio			HistologyBio		
Organic ChemistryChem	231	5	Chemistry ElectiveChem		3
			Introductory PhysicsPhys	112	4
		-			-
		16			14

SECRETARIAL COURSE

The two-year intensive secretarial program has a threefold purpose: to provide a general education; to develop an understanding of business activities; and to give specialized training for secretarial work.

The required courses in this program may be counted toward the degree Bachelor of Science in Commerce and Finance or toward that of Bachelor of Science in Business Education when students desire to continue their education after completing their secretarial training.

Freshman Year

First Semester	Second Semester				
Title Nun.	aber	Cr.	Title Nun	nber	Cr.
Survey of BusinessB.A.	100	3	Biological ScienceBio	100	3
CompositionEng	101	3	CompositionEng	102	3
Hist. of W. Civilization Hist	101	3	Fundamentals of SpeechEng	131	2
Shorthand and Typewriting S.S.	101	4	Hist. of W. CivilizationHist	102	3
Phys. Ed	101	1	Shorthand and TypewritingS.S.		4
Pers. HygP.E.	105	1	Phys. Ed	102	1
			Pers. HygP.E.	106	1
		_			-
		15			17

SOPHOMORE YEAR

Third Semester	r	Fourth Semester			
Title	Number	Cr.	Title Nun	aber	Cr.
Business Mathematics	B.A. 231 S.S. 109 S.S. 205	3 3 4 4 3 1	Office Management B.A. Intro. to Economics Econ Advanced Stenography S.S. Secretarial Accounting S.S. Elective Physical Education P.E.	100 110 120	3 4 3 3 1
		18			17

Students who have had shorthand and typewriting in high school may substitute electives for one or more of the courses in the stenographic skills, provided they demonstrate adequate skill. Placement examinations will be given the first week of the term to determine their levels of attainment.



Description of Courses

ACCOUNTING

Professor Rosenberg, chairman; Instructors Baron, Curtis, Kohn, Krohn, Slamon, P. Werner.

ACCT. 101. ELEMENTARY ACCOUNTING—Three credits THE STAFF Fundamental theory of debits and credits; problems of classification and interpretation of financial data; technique of recording; preparation of financial statements. Class, two hours a week; laboratory, four hours a week.

ACCT. 102. PRINCIPLES OF ACCOUNTING—Three credits THE STAFF A continuation of Accounting 101. Principles of partnership and corporation accounting; introduction to departmental, manufacturing, and branch accounting; financial analyses of statements. Class, two hours a week; laboratory, four hours a week.

Prerequisite: Acct. 101.

ACCT. 111. INTERMEDIATE ACCOUNTING—Three credits THE STAFF Intermediate problems involving interpretation and detailed analyses of balance-sheet accounts; analytical processes and miscellaneous statements. Class, two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 102.

ACCT. 112. ADVANCED ACCOUNTING—Three credits

An advanced study of partnerships and corporations; consignments and branch accounting; consolidated statements; estate and municipal accounting. Class, two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 111.

ACCT. 201. COST ACCOUNTING—Three credits

THE STAFF

Accounting for material, labor, and overhead expenses; methods of apportionment of manufacturing costs; detailed study of job-cost and process-cost methods. Class, two hours a week; laboratory, two hours

Prerequisite: Acct. 112 or approval of instructor.

ACCT. 202. ADVANCED COST ACCOUNTING—Three credits THE STAFF Establishing the practical use of cost systems through analytical and comparative statements; detailed study of various cost systems; standard costs; interpretation of data. Class, two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 201 or approval of instructor.

Acct. 220. Accounting Systems—Three credits Mr. Slamon A study of the accounting methods of banks, utilities, building and loan associations, and other specialized businesses, with special attention given to internal control, ease of recording, and forms.

Prerequisite: Acct. 112, 201.

ACCT. 221. TAXES I—Three credits

MR. CURTIS

The preparation of Federal income tax returns for individuals based on current law, regulations and court decisions; problems of inclusion and exclusion from income; gains and losses from sales and exchanges; allowable deductions; methods of effecting tax savings. Class, two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 112, 202 or approval of instructor.

ACCT. 222. TAXES II—Three credits

HE STAFF

Tax accounting for installment and deferred payment sales; Federal tax returns for partnerships; fiduciaries and corporations; miscellaneous Federal and Pennsylvania corporate taxes. Class two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 221.

ACCT. 231. AUDITING PRINCIPLES—Three credits

IR. SLAMON

Methods used in verifying, analyzing, and interpreting the records and balance sheet and income accounts; study of the procedures applicable under various circumstances. Class, two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 202.

ACCT. 232. AUDITING PRACTICE—Three credits

Mr. SLAMON

Advanced application of auditing principles to actual practice; problems of classification and interpretation of accounts; study of methods of internal control; preparation of reports to clients. Class, two hours a week; laboratory, two hours a week.

Prerequisite: Acct. 231.

ACCT. 242. ADVANCED PROBLEMS—Three credits

MR. CURTIS

Advanced corporation problems including consolidations, mergers, and holding companies. Class two hours a week. Laboratory, two hours a week.

Prerequisite: Acct. 112.

ART

Assistant Professor O'Toole, chairman; Instructor Lorusso.

The curriculum leading to the degree of Bachelor of Arts in Art is intended (1) for the student who seeks an intelligent understanding

of the visual arts as part of his general education; and (2) for the talented student who wishes to acquire the technical skills necessary for successful art expression.

The courses in the curriculum enable the student who is essentially an observer of art to experience as fully as possible the creative activity of the artist. They give the student with a special aptitude for art a thorough knowledge of the language of art, and an adequate training in the mechanics and techniques that he needs to achieve full creative expression.

The Art Education Curriculum is outlined on p. 70.

ART 101-102. BASIC ART—Three credits each semester MR. O'TOOLE

Fundamental training in the handling of tools, the acquisition of the skills and knowledge used in the presentation of the graphic image. Principles of drawing, design, composition, color; uses of line and tone, color line and color tone. Studies in line, texture, tone, and color; space division, form, light and shade, light-dark. Class, two hours; studio, two hours.

ART 103-104. APPLIED ART—Three credits each semester MR. O'TOOLE

Review of various applications of art. Realism, abstraction, fantasy; the study of art and art philosophies and their present use in fine art, advertising design and illustration; exercises will be given in the various black and white mediums: pen, pencil, charcoal, crayon, et cetera. Color mediums: pastel, water colors, colored inks, colored pencils, et cetera. Class, two hours; studio, two hours.

Prerequisite: Art 101 and 102 or equivalent.

ART 105-106. INTRODUCTION TO LETTERING

Three credits each semester

Mr. Lorusso

Analysis of basic letter forms. The origin and development of the alphabet. Study of the first three one-stroke alphabets and Gothic. The basic strokes, upper and lower cases. Grouping letters into words. Simple spacing and layout.

Second group of alphabets to include: thick and thin, the scripts, one-stroke Roman and italics. Combining all the one-stroke alphabets in varying weights and sizes.

ART 107-108. LETTERING AND LAYOUT—Three credits each semester

The designed or built-up letter. Basic strokes, upper and lower cases of Gothic, Roman, italic, and script letters. Combining designed lettering with one-stroke lettering in layout. The use of color in lettering and backgrounds.

Prerequisite: Art 105-106.

ART 109. TYPOGRAPHY—Three credits

MR. O'TOOLE

Complete study of type faces and their design and differences. Designing with type, type ornaments and rules. Relationships of form, structure, size, direction, texture, color and weight. The use of type in advertising, book-jackets, brochures.

Prerequisite: Art 105-106, 107-108, or equivalent, and permission of instructor

ART 110. HAND LETTERING FOR REPRODUCTION—Three credits

Mr. O'Toole

Brush lettering, pen lettering, combining hand lettering with type. The uses of photostats. Use of ruling pen, bow compass, and other mechanical aids. The hand-lettered book-jacket and posters. The paste-up and use of reproduction proofs for line cuts.

Prerequisite: Art 105-106, 107-108, or equivalent, and permission of instructor.

ART 201-202. ILLUSTRATION—Three credits each semester

Mr. O'Toole

Every possible use of illustration will be explored in this course from spot drawings to the illustration of two pages as a unit. Line illustration, line mediums; half-tone illustrations, half-tone mediums; analysis of various types of magazine illustrations; design of two pages facing (double spread). Class, two hours; studio, two hours.

Prerequisite: permission of the instructor.

ART 203-204. ADVANCED ILLUSTRATION—Three credits each semester

Mr. O'Tool

Editorial illustration, caricature, decorative drawing, humorous drawing, stylized drawing. The book and book jacket; poster design. Assignments will be given in each type of illustration and will be prepared from rough to finish by the student. Class, two hours; studio, two hours.

Prerequisite: permission of the instructor.

ART 211-212. ADVERTISING DESIGN—Three credits each semester

Mr. O'Toole

The object of this course is to acquaint the student with the methods and processes of designing for reproduction. Various methods of reproduction; line processes, half-tone processes, color separation. Studies in mediums used for line reproduction; studies in mediums used for half-tone reproduction; mechanical aids; typography, a complete study of type, type styles and type combinations. Class, two hours; studio, two hours.

Prerequisite: permission of the instructor.

ART 213-214. ADVANCED ADVERTISING DESIGN—Three credits each MR. O'TOOLE

Advertising and editorial layout; modern layout; the use of photomontage; photographs and textures in advertising; color in backgrounds, type and illustrations. The advanced student will be required to do work that will meet the professional standards required by advertising agencies. Class, two hours; studio, two hours.

Prerequisite: Art 101-102, 103-104, or equivalent.

ART 215-216. FINE ART—Three or four credits each semester

MR. O'TOOLE

Intensified training in drawing, design and composition. Study of still life, study of the light-dark principle, light and shade; transparencies and opaques, balance, dominance, follow through, contrast, texture study, line, tone and color. Class, two hours; studio, two hours.

Prerequisite: Art 101-102, 103-104, or equivalent.

ART 217-218. ADVANCED FINE ART—Three or four credits each semester

The complete design, picture structure. The various kinds and uses of perspective. Further study of the painting, design and art movements of the past and present. Advanced studies in various painting mediums. The creation of space, study of two dimensional and three dimensional design. Study of tensions of lines, forms, lights and darks, colors and textures. Class, two hours; studio, two hours.

Prerequisite: Art 101-102, 103-104, or equivalent.

ART 219-220-221-222. STUDIO I, II, III, IV—Two or three credits
each semester

MR. O'TOOLE

Individual instruction in the field of art in which the student wishes to excel. Each student will be given problems according to his needs and abilities. With each problem the student will receive individual instruction and criticism.

ART 241-242. GRAPHIC ART—Two credits each semester

Preparation and methods of designing in print making, linoleum, wood cut, etching, engraving, serigraph.

ART 243. ARTS OF PRESENTATION—Three credits

The object of this course is to acquaint the student with the methods and processes of designing for reproduction. Various methods of reproduction; line processes, half-tone processes, color separation. Studies in mediums used for line reproduction; studies in mediums used for half-tone reproduction; mechanical aids; typography, lettering, layout, posters, bookjackets, the advertisement.

BIOLOGY

Professor Reif, chairman; Instructors Leagus, Michelini and Na-

BIO. 100. BIOLOGICAL SCIENCE—Three credits

THE STAF

Biological Science is a survey course intended for students who take no other courses in biology. It presents the essential general information about plants and animals, explains fundamental laws governing the biological world, and emphasizes their relationship to man. Class, three hours a week.

Bio. 101-102. GENERAL ZOOLOGY—Nine credits

MR. RE

General Zoology surveys the entire animal kingdom, outlines the history of biology, the organization of living matter, the structure of representative animals, and the methods of their classification. It considers the basic principles of physiology, genetics, embryology, evolution, and ecology. Biology 101 has class four hours a week; laboratory, three hours a week. Biology 102 has class three hours a week; laboratory, three hours a week. Fee: \$15.00 each course.

BIO. 111-112. GENERAL BOTANY—Three credits each semester

MRS. NAMISNIAK

General Botany presents a broad consideration of the plant world. It includes the study of the fundamental principles of biology, emphasizing the structure, physiology, genetics, and ecology of plants. Class, two hours a week; laboratory, three hours a week. Fee: \$15 each course.

BIO. 113. BOTANICAL TAXONOMY—Four credits

MR. REIF

Botanical Taxonomy presents a survey of the great divisions of the plant kingdom with special reference to the seed plants. Class, two hours a week; field work, six hours a week. Fee: \$15.

BIO. 201. COMPARATIVE ANATOMY OF THE VERTEBRATES—

Four credits

MR. MICHELINI

Comparative Anatomy includes a study of the general morphological characteristics of selected vertebrates emphasizing the structural and embryological relationships of verterbrates generally. The taxonomy of the Phylum Chordata is stressed. Class, two hours a week; laboratory, six hours a week. Fee: \$15. Prerequisite: Bio. 102.

Bio. 202. Embryology—Four credits

MR. MICHELINI

Embryology is the study of the early development of animals. Growth is traced from the egg to later stages in the frog, chick, and

man. Laboratory work includes the technique of making slides. Class, two hours a week; laboratory, six hours a week. Fee: \$15. Prerequisite: Bio. 201, or permission of instructor.

BIO. 211-212. BACTERIOLOGY—Four credits each semester

MRS. NAMISNIAK

Bio. 211 covers generally the morphology and identification of bacteria. Laboratory work includes microscopy, techniques of making media, methods of sterilization, and the culturing of bacteria. Fee: \$15. Prerequisite: Bio. 102.

Bio. 212 emphasizes medical and industrial processes such as biological prophylaxis and allergy, diseases and disease transmission, viruses, rickettsias, and pathogenic protozoa. Class, two hours a week; laboratory, six hours a week. Fee: \$15. Prerequisite: Bio. 211.

BIO. 223. ENTOMOLOGY—Four credits

MR. RE

Entomology is the study of insects through the collection and identification of specimens. Life histories of insects are studied as well as their economic relationships, and their significance in industry and medicine. Class, two hours a week; laboratory and field work, six hours a week. Fee: \$15. Prerequisite: Bio. 101, or permission of instructor.

BIO. 241-242. HISTOLOGY AND ORGANOLOGY—Three credits each semester Mr. MICHELINI

Histology is the study of normal tissues and the arrangement of tissues to form organs and organ systems. Credit is given only upon completion of both semesters work which must be taken in sequence. Class, two hours a week; laboratory, three hours a week. Prerequisite: through Bio. 202, or permission of instructor. Fee: \$15 each course.

BIO. 251-252. PHYSIOLOGY—Three credits each semester

MR. MICHELINI

Physiology is a study of the functioning of the various cells, tissues, and organs of the animal body. Laboratory work includes experiments involving living forms. Class, two hours a week; laboratory, three hours a week. Fee: \$15 each course. Prerequisite: through Bio. 242, Chem. 230, and Phys. 112, or permission of instructor.

Prerequisite: for Bio. 252 is Bio. 251.

BIO. 291-292. SEMINAR IN BIOLOGY—One credit each semester STAFF

This seminar is designed as a correlating study of the field of biology for senior students. Each student prepares a paper on a biological

topic for presentation to and discussion by the group. Class, one hour a week. Prerequisite: permission of instructor.

BUSINESS ADMINISTRATION

Professor Rosenberg, chairman; Assistant Professors Christopher, Elliot, Farrar, Instructors Casper, Connor, Mackson, Kohn, Krohn, Puhak, Wood, Johns, Lu, Roberts, R. Werner.

B.A. 100. Survey of Business—Three credits

THE STAFF

This course is designed as an introduction to the field of business and must be taken by commerce and finance students during the first semester of the freshman year. Emphasis is placed upon examining the various vocational opportunities in modern business and upon studying the necessary educational and other requisites for such jobs. Attempts are made to plan in advance with each student a tentative course program. Each student is required to make an individual study of some vocational objective. This course can be taken for credit by Freshmen only.

B.A. 107. Business Mathematics—Three credits

THE STAFF

Review of fundamental arithmetic processes; relation of fractions, decimals, and per cent; simple interest; mark-ups, profits and losses; inventory and turnover; depreciation and distribution of overhead; payroll problems including social security and other deductions; sales and property taxes; credit and credit instruments involving interest; bank discounts; compound interest and present value; insurance and annuities; stocks and bonds; graphs and their use in business.

B.A. 114. SALESMANSHIP¹—Three credits

STAFF

The art of selling; the motive behind all buying; creation of interest and desire; presentation of services; meeting objections; types of customers.

Prerequisite: approval of instructor.

B.A. 209. Business Correspondence and Reports—Three credits

THE STAFF

Fundamental principles of business writing with emphasis on letters and reports.

Prerequisite: Eng. 102.

¹ Credit will not be given if credit for Ret. 207 has been received.

B.A. 216. ADVERTISING—Three credits

A survey of the different departments of advertising work, including copy, art, display, engraving, trade-marks, and media; advertising as a social force.

B.A. 217. TRANSPORTATION—Three credits

MR. ROSENBERG

Problems and policies of railroads, buses, inland waterways, and air and ocean transportation; economic importance of transportation; significance of transportation to society.

Prerequisite: Ec. 102

B.A. 218. CREDIT AND COLLECTIONS—Three hours

THE STAFF

The fundamentals of credit; investigation, analysis of risks; collection plans and policies. Special attention given to the organization of credit and collection offices.

Prerequisite: Ec. 102, Acct. 102.

B.A. 220. REAL ESTATE—Three hours

THE STAFF

The fundamentals of the real estate business, including consideration of titles, mortgages, leases, advertising, sale, purchase, development, and management of real property.

Prerequisite: Ec. 102.

B.A. 222. MARKETING—Three hours

THE STAFF

Evolution of the marketing system and functions of marketing, trade structure and organization, and the nature of competition. Principles of distribution, assembling, grading, transportation, finance, and storage. Each student is required to make a special study of the marketing of a selected commodity.

Prerequisite: Ec. 102.

B.A. 225. Corporation Finance—Three hours

MR. LU

A study of the economic principles underlying the capital structure of modern business enterprise. Consideration given to alternate types of business organization, corporate securities, and financial policies involved in promotion, disposition of net earnings, working capital and short-term financing, mergers, expansion, financial readjustments, and reorganization.

Prerequisite: Ec. 102.

B.A. 226. Investments—Three hours

Consideration of leading types of investments, tests, and investment programs; financial reports of leading companies, forecasting methods

and agencies, stock exchanges, brokerage houses, methods of buying and selling securities, fraudulent promotions and their detection. Laboratory work and case studies.

Prerequisite: B.A. 225.

Three hours

B.A. 231. Business Law—Introduction and Contracts

MR. CASPER, MR. MACKSON, MR. KROHN

The foundation for all subjects in the field of business law. The nature, classification and sources of law, agencies and procedure for enforcing legal rights are discussed. A brief resume of the law of Torts and Crimes, with particular reference to business problems. Examination of the essential elements of a contract, the nature and transfer of contractual rights, discharge of contracts and remedies for breach.

Prerequisite: Ec. 102 or approval of instructor.

B.A. 232. Business Law—Agency and Sales—Three hours

Mr. Casper, Mr. Mackson, Mr. Krohn

A general study of the law of agency; its nature and creation, the rights and liabilities of principals, agents and third persons, and the termination of the agency. A study of the law of sales of goods, the transfer of title and risk of loss, warranties in sales, the duties and liabilities of the parties, remedies for breach, security interests in goods. A comparison of the uniform sales act with the sales article of the Uniform Commercial

Prerequisite: B.A. 231.

B.A. 233. Business Law—Partnerships and Corporations Three credits

MR. KROHN, MR. PUHAK

Principles of law governing partnerships and corporations, in their formation, operation, internal relationships, and dissolution, with particular reference to their dependency upon the law of agency. Legal aspects of the insurance contract with respect to the insured, insurer, and beneficiary, and the interest necessary to create an insurance con-

Prerequisite: B.A. 231, 232, Acct. 102.

B.A. 234. Business Law—Property—Three credits MR. PUHAK

Law of property; the mortgagor-mortgagee relationships; the landlord-tenant relationship; business crimes (crimes against the person, property, business transactions); bankruptcy; and pacts (security of person, property, business relations, and business transactions).

Prerequisite: B.A. 231, 232, Acct. 102.

B.A. 235. INDUSTRIAL MANAGEMENT—Three credits

MR. CHRISTOPHER

A study of the organization and management of industry, with emphasis on the principles developed; problems of the interrelationship of the functions operating in the fields of management, such as production control, personnel, financing, and the forecasting of business conditions, particularly as they relate to industry.

Prerequisite: B.A. 225.

B.A. 236. Personnel Management—Three credits

MR. CHRISTOPHER

Principles and modern practices of personnel management; instruments of control; the training and education of the worker; incentives used and special problems encountered.

Prerequisite: Ec. 223 or approval of instructor.

B.A. 237. PRODUCTION MANAGEMENT—Three credits

MR. CHRISTOPHER

A study of the production problems that confront executives; developing operational plans; handling production problems; appraisal of relative risks.

Prerequisite: Ec. 223 or approval of instructor.

B.A. 238. OFFICE MANAGEMENT—Three credits Mr. Christopher

The organization and management of the office with emphasis on the administration and supervision of office routines; problems of office records and filing; selection of stationery and other office supplies; design and effective use of forms; job analysis, specification, evaluation, and classification; selection and use of machines and specialized equipment; office arrangement and working conditions; employment, training, and compensation of office workers; the measurement of work and setting of standards.

Prerequisite: approval of instructor.

B.A. 239. SALES MANAGEMENT—Three credits Mr. Christopher

The relation of the sales department to all other departments; types of sales organizations; selection, training, compensation, and management of the sales force; sales research and market analysis; determination of price and brand policies; preparation of sales budgets; costs of distribution.

Prerequisite: B.A. 114 or equivalent.

B.A. 240. PROPERTY INSURANCE—Three credits

Mr. Connor

This course is a study of the fundamentals of fire, casualty, and marine insurance.

Prerequisite: Business Administration 232 or approval of instructor.

B.A. 241. LIFE INSURANCE—Three credits

MR. FARRAR

This course is a study of the principles, practices, and uses of life insurance from the overall viewpoint of the product, cost, market, and industry.

Prerequisite: approval of instructor.

B.A. 244. TIME AND MOTION STUDY—Three credits Mr. Johns The principles and techniques of time and motion study. Class, three hours a week; laboratory, two hours a week.

B.A. 245. TRAFFIC MANAGEMENT—Three credits

THE STAFF

Economic and historical aspects of traffic management; evaluation of comparative aspects of competitive modes of transportation, development of managerial ability; use of rates and tariff.

Prerequisite: approval of instructor.

CHEMISTRY

Professor Bastress, chairman; Assistant Professors Bone, Salley, and Worstall; Instructor Leagus.

LANGUAGE REQUIREMENTS

A reading knowledge of scientific German or of French is required for this degree. The requirement may be satisfied as follows:

- A student prepared in a language may take a reading-knowledge test.
- 2. A student who has taken two years or more of German in high school must complete scientific German; if he has taken two years or more of French, he must complete six hours of intermediate or advanced French.
- 3. Students beginning either language must complete twelve semester hours. Those beginning German must include German 105 in the twelve hours.

CHEM. 101. GENERAL INORGANIC CHEMISTRY—Four credits

THE STAFF

An introduction to the fundamental laws and theories of inorganic chemistry. The chemistry of selected non-metallic elements. Class, three

hours a week; laboratory, three hours a week. Breakage deposit required. Fee: \$15.

CHEM. 102. INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS

Six credits

Miss Bone

The reactions of the common metallic elements, the theory and practice of elementary qualitative analysis. Class, four hours a week; laboratory, six hours a week. Breakage deposit required. Fee: \$15.

Prerequisite: Chem. 101.

Prerequisite: Chem. 230.

CHEM. 104. GENERAL INORGANIC CHEMISTRY—Four credits

MISS BONE, Mr. WORSTALL

A continuation of Chemistry 101. The chemistry of the metals. Laboratory work includes some qualitative analysis. Will not be accepted as a prerequisite for further chemistry courses. Class, three hours a week; laboratory, three hours a week. Breakage deposit required. Fee: \$15. Prerequisite: Chem. 101.

CHEM. 121. INORGANIC QUANTITATIVE ANALYSIS—Four credits

Mr. Salley

Theory and practice of typical analyses. Class, two hours a week; laboratory, six hours a week. Breakage deposit required. Fee: \$15.

Prerequisite: Chem. 102.

CHEM. 122. INORGANIC QUANTITATIVE ANALYSIS—Five credits

A continuation of Chemistry 121. Class, two hours a week; laboratory, nine hours a week. Breakage deposit required. Fee: \$15.

Prerequisite: Chem. 121.

CHEM. 230. ORGANIC CHEMISTRY—Four credits Mr. Bastress An introduction to the chemistry of carbon compounds. The preparation and properties of aliphatic compounds. Class, three hours a week; laboratory, three hours a week. Breakage deposit required. Fee: \$15. Prerequisite: Chem. 121.

CHEM. 231. ORGANIC CHEMISTRY—Five credits Mr. Bastress A continuation of Chemistry 230, with special attention to cyclic compounds. Class, three hours a week; laboratory, six hours a week. Breakage deposit required. Fee: \$15.

CHEM. 233. QUALITATIVE ORGANIC ANALYSIS—Three credits

MR. BASTRESS

A course designed to give practice in the systematic identification of pure organic compounds and mixtures. Class, one hour a week; laboratory, six hours a week. Breakage deposit required. Fee: \$15.

Prerequisite: Chem. 231.

CHEM. 234. TOPICS IN ORGANIC CHEMISTRY—Three credits

MR. BASTRESS

Special topics in organic chemistry, including theories of organic reactions. Class, three hours.

Prerequisite: Chem. 231.

CHEM. 241-242. PHYSICAL CHEMISTRY—Four credits each semester

MR. SALLEY

An introduction to the principles of physical chemistry and the elements of thermodynamics. Class, three hours a week; laboratory, three hours a week. Breakage deposit required. Fee: \$15 each course.

Prerequisite: Chem. 121, Math. 126, Phys. 152.

CHEM. 243. TOPICS IN PHYSICAL CHEMISTRY—Three credits

MR SALLEY

A study of advanced thermodynamics, chemical equilibrium, kinetics, and colloid chemistry. Advanced material is presented concerning the three phases of matter. Class, three hours a week.

Prerequisite: Chem. 242.

CHEM. 244. TOPICS IN INORGANIC CHEMISTRY—Three credits

MR. SALLEY

A course designed to introduce the student to the modern theories of inorganic chemistry. Class, three hours.

Prerequisite: Chem. 121.

CHEM. 251-252. BIOLOGICAL CHEMISTRY—Three credits each semester

Mr. Bastress

The application of chemical and physiochemical principles and methods to chemical constitution, reaction, and products of living matter. Class, two hours a week; laboratory, three hours a week. Breakage deposit required. Fee: \$15 each course.

Prerequisite: Chem. 121 and 230.

CHEM. 261. HISTORY OF CHEMISTRY—One credit MR. BASTRESS

The development of the science in terms of the personalities responsible for the development.

Prerequisite: completion of twenty chemistry credits.

CHEM. 262. CHEMICAL LITERATURE—One credit Mr. BASTRESS

An orientation course in foreign and domestic chemical literature.

Prerequisite: completion of twenty chemistry credits.

CHEM. 271-272. RESEARCH PROJECT—One to three credits each semester

THE STAFF
Fee: \$5 per credit.

ECONOMICS

Professor Rosenberg, chairman; Assistant Professors Elliot, Farrar, Lu. Instructor R. Werner.

Students who major in economics in the Bachelor of Arts course are required to complete twenty-four hours of work in economics beyond Ec. 101 and 102. The twenty-four hours in economics which the major must carry should include Ec. 201, 202, 231, 232, 241.

Ec. 100. Introduction to Economics—Three credits The Staff An introductory course in principles of economics designed for students who plan to take *only one* semester of work in this field. Theoretical aspects of capital value, national income, money and banking, and international trade are included.

An introductory course which presents basic economic problems and shows how these problems are solved in a free enterprise economy; the effects of the increasing importance of the economic role of government are pointed out. The course provides orientation in the broad field of economics and makes use of the analytical trends by means of which the student can understand the economic problems of his environment.

Ec. 102. Principles of Economics—Three credits

The Staff
This course is a logical sequence to Economics 101. It is based upon a broad macro-economic foundation concentrated on such units as the firm, the industry, and the consumer.

Prerequisite: Ec. 101.

Ec. 201. Money and Banking—Three credits

Mr. Rosenberg, Mr. Elliott, Mr. Werner

A study of the organization of financial institutions, their operation and influence upon the economy. Consideration is given to commercial and savings banks, investment institutions, and the Federal Reserve System.

Prerequisite: Ec. 102.

Ec. 202. Theory of Money—Three credits

Mr. Rosenberg, Mr. Elliot, Mr. Werner

An analysis of the theory of money and credit in relation to contemporary economics; currency and credit problems; governmental regulations; control of foreign exchange, and central banking.

Prerequisite: Ec. 201.

Ec. 204. Consumer Credit—Two credits Mr. Rosenberg
This course includes consumer credit in its various aspects. It includes
retail credit, sales finance, credit unions, and credit bureau activities.

Prerequisite: approval of instructor.

Ec. 212. Government and Business—Three credits The Staff

A study of the relationship of government to economic enterprises with special attention to conditions in the United States; the regulatory activities of government agencies; administrative methods, objectives and results of governmental control. Reference is made to monopoly and quasi-monopoly situations, public utilities, trust, transportation, extractive industries, and public enterprise.

Prerequisite: P.S. 101, Ec. 102.

Ec. 222. The American Labor Movement—Three credits Staff

A study of the evolving labor movement and its ideology. The course deals with the development of American labor ideology and psychology in comparison with other labor movements. This course views the present position of American labor in regard to political and social institutions and to the rest of the economy.

Prerequisite: Ec. 102.

Ec. 223. Collective Bargaining—Three credits Mr. R. Werner

An introduction to American labor problems; analyses of major issues in the field of labor. This course deals with employment, wages, hours, history, growth and present position of organized labor, union policies, governmental participation in labor relations, collective bargaining, investigation and arbitration in labor disputes, and social security.

Prerequisite: Ec. 102.

Ec. 225. International Trade—Three credits The Staff

Theory and practice of international trade with special reference to contemporary problems and policies. The topics covered include tariffs, quotas, foreign exchange, equilibrium in international payments. A study will be made of geographic, economic, social, and political influences on international trade. Review of current policies and developments in the United States.

Prerequisite: Ec. 102.

Ec. 226. Economic Geography—Three credits

MR. ELLIOT

A study of the relation of geography to the economic activity of man. This course describes and analyzes the world distribution of resources, industries, and population. It is designed as an introductory course in world resources and related fields.

Prerequisite: Ec. 102.

Ec. 227. Economic Geography—North America—Three credits

A study of the economic regions of the North American continent, with special emphasis on the role of the United States in the western hemisphere.

Prerequisite: Ec. 102.

Ec. 229. Comparative Economic Systems—Three credits The Staff

The institutions of planned economy of the U.S.S.R. and those of the contemporary experiment in evolutionary socialism in Great Britain are studied. Constant objective comparisons are made with institutions which are characteristic of a capitalistic economy.

Prerequisite: approval of instructor.

MR. LU

Ec. 230. Business Cycles—Three credits A historical analysis of major business cycles. Contemporary theories and a critical examination of public policy toward business cycles.

Prerequisite: approval of instructor.

Ec. 231. Applied General Statistics—Three credits

MR. ROSENBERG

A course in statistical methods and their application to business. A collection and interpretation of statistical data, frequency distribution and measures of central tendency, fitting the normal curve, Chi-square test; test of significance for small samples, analysis of variance. 3 hours lecture; 2 hours laboratory.

Prerequisite: approval of instructor.

MR. ROSENBERG Ec. 232. Economic Statistics—Three credits

A continuation of Economics 231. This course will include timeseries analysis, construction of index numbers, methods of correlation analysis, multiple and partial correlation, and test of significance for samples. Lecture, three hours; laboratory, two hours.

Prerequisite: Ec. 231.

Ec. 236. Public Finance—Three credits

Mr. Rosenberg, Mr. Werner

Fundamental principles of public finance; government expenditures; revenue; financial policies and administration; taxation; principles of shifting and incidence of taxation; public debts and the budget; fiscal problems of federal, state, and local government; the relation of government finance to the economy.

Prerequisite: Ec. 102, P.S. 101.

MR. ELLIOT, MR. LU Ec. 238. Economic History—Three credits

An advanced course which deals with the origin, growth, and significance of economic institutions, with special emphasis upon those of Europe and the United States.

Prerequisite: Ec. 102.

Ec. 241. ECONOMIC ANALYSIS—Three credits

This course is designed to give coverage to the theory of value and distribution. The determinants of consumer demand and the principles governing costs and outputs of producers are analyzed with some stress on recent theoretical investigations. The method is abstract and deductive.

Prerequisite: Ec. 102.

Ec. 245. Consumer Economics—Three credits

The place of the consumer in the economic system. Theories of consumption; problems of the individual consumer as affected by income, consumer habits, standard of living, planning and budgeting; a study of the trends of consumption, income disposition, marketing processes of consumption of goods. Each student is required to make a study of the consumption of a selected commodity.

Prerequisite: Ec. 102.

Ec. 246. Economics Investigation—Three credits

Each student conducts an investigation in the field of his major interest and constructs a final report. Class instruction will consist of: (1) the principles of scholarly criticism, (2) compilation and use of bibliographies, and (3) details of good form as to content, table, body, footnotes, and bibliography.

Prerequisite: approval of instructor.

EDUCATION

Professor Hammer, chairman; Assistant Professor Fortess, Instructor

Ed. 100. American Public Education—One credit A short course designed to acquaint students with the essential facts about American public education. School system organization; the development and significance of education in a democracy; current problems, possible solutions and promising practices are presented and analyzed for the non-professional.

ED. 101. Introduction to Education—Three credits Mr. Hammer

A broad, general introduction to the field of education. A historical and philosophical background of American public education. Study of the educational structure; the teacher, his preparation and qualifications; the pupils, their individual differences and provisions therefor; the materials of instruction; the school plant; the financing of education; the profession of teaching; the participation of the public; contemporary issues and trends in public education. Students taking Ed. 101 will not receive credit for Ed. 100.

ED. 201. EDUCATIONAL PSYCHOLOGY—Three credits Mr. HAMMER

Practical application of basic psychological principles; study of human growth and development; the nature and measurement of intelligence; mental hygiene of pupil and teacher; the nature and general principles of learning; the measurement and facilitation of learning; guidance of the individual; effective methods of study; special aspects of learning; the psychology of teaching methods; and simple statistical concepts.

Prerequisite: Psy. 100 and Ed. 101.

ED. 202. EDUCATIONAL MEASUREMENTS FOR THE SECONDARY SCHOOL
ED. 203. EDUCATIONAL MEASUREMENTS FOR THE ELEMENTARY SCHOOL

Two credits

Mr. Hammer

A consideration of the characteristics, uses, and interpretations of intelligence and subject-matter tests available for school use; study of methods of treating scores; principles and purposes of measurement; practice in the construction of objective tests; supervised administration, scoring, and interpretation of tests; some aspects of evaluation.

Prerequisite: Ed. 101, 201.

ED. 204. PRINCIPLES AND METHODS OF SECONDARY EDUCATION—

Three credits Mr. Hammer

The historical development of the secondary school; a philosophical background from which are drawn basic principles; other factors in the development of the secondary school; promising practices in the secondary school; methodology in different subjects; motivation; the secondary pupil; guidance and control; records and reports—a survey of secondary school teaching.

Prerequisite: Ed. 101, 201.

ED. 205. SECONDARY CURRICULUM—Three credits Mr. HAMMER

Developments of recent years in the secondary school curriculum; consideration of college preparation, preparation for life, vocational needs, etc.; planning of classroom activities; extracurricular activities; treatment of individual differences; organization of curriculum units; study methods; tests and marking; a survey of secondary school curriculum and its continuing development.

Prerequisite: Ed. 101, 201.

ED. 207. STUDENT TEACHING IN THE SECONDARY SCHOOL Eight credits

Students are assigned to work with experienced classroom teachers. They observe several teachers. Gradually they assume classroom responsibility and teach under supervision. Conferences with cooperating teachers and college supervisors are arranged. Fee: \$20.

Prerequisite: Fifteen hours of credit at Wilkes, permission of the instructor.

ED. 208. STUDENT TEACHING IN THE ELEMENTARY SCHOOL (OBSER-VATION)—Four credits

Students are assigned to area schools where they observe various teachers and participate as aides in the classroom.

Prerequisite: Permission of the instructor.

ED. 209. STUDENT TEACHING IN THE ELEMENTARY SCHOOL (TEACHING)—Eight credits

Students are assigned to work with experienced classroom teachers. They assume classroom responsibility and teach under supervision. Conferences with cooperating teachers and college supervisors are arranged. Fee: \$20.

Prerequisite: Fifteen hours of credit at Wilkes, permission of the instructor.

ED. 210. STUDENT TEACHING IN ART—Eight credits

Students are assigned to work with experienced classroom teachers and art specialists. They observe in both elementary and secondary school classrooms, and teach. Opportunities are provided for them to participate in school-wide activities. Conferences with cooperating teachers and college supervisors are arranged. Fee: \$20.

Prerequisite: Fifteen hours of credit at Wilkes, permission of the instructor.

ED. 211. EXTRACURRICULAR ACTIVITIES—Three credits Mr. HAMMER

Consideration of the place of extracurricular activities in the education of the child; the organization of extracurricular activities; the tendency to bring them into the school curriculum; their place in the guidance program.

Prerequisite: Ed. 101, 201.

ED. 212. VISUAL EDUCATION—One credit

THE STAFF

A study of the materials and techniques of visual education; principles and plans for the use of audio-visual or sensory aids; the incorporation of visual instruction in the work for the classroom.

Prerequisite: Ed. 101, 201.

ED. 214. GUIDANCE—Two credits

Mr. Hammer

A general survey of the principles and problems of guidance, and an introduction to activities and techniques used in a guidance program in the public school. Required for the Pennsylvania guidance teachers' and counselors' certificates.

Prerequisite: Ed. 101, 201.

ED. 215. INTRODUCTION TO OCCUPATIONS AND OCCUPATIONAL

RESEARCH—Two Credits

Mr. CHWALEK

A study of individual and social factors affecting occupational choices; methods of making vocational choices; types of occupational preparation; means of entry into occupations; problems of adjustment to job, leisure time, and unemployment.

Prerequisite: Ed. 101, 201.

ED. 221. THE TEACHING OF ART—Three credits

Study of contemporary practices in the teaching of art in elementary and secondary schools; study of the psychology of the creative process; adaption of various art media to the school curriculum; study of the organization of the art curricula.

ED. 231. THE TEACHING OF READING—Three credits Mrs. Fortess

Analysis of the reading task; consideration of the relationship of maturation to reading; problems and methods in developing reading readiness; methods and techniques of teaching reading; the place of experiences; development of reading interests; types of reading; evaluation of reading growth; remedial procedures in reading.

Prerequisite: Ed. 101, 201.

ED. 232. THE TEACHING OF ARITHMETIC—Two credits Mrs. Fortess

Study of the principles and practices of education in the field of elementary arithmetic; methods, aims, and objectives; methods and teaching

techniques for developing units of work; attention given to methods of instruction in concepts of quantitative relationships.

Prerequisite: Ed. 101, 201.

ED. 234. THE TEACHING OF LANGUAGE ARTS—Two credits

MRS. FORTESS

Study of the principles and practices of education in the field of elementary English; methods, aims, and objectives; methods and techniques for developing units of work; attention given to handwriting, spelling, and the utilization of the library.

Prerequisite: Ed. 101, 201.

Ed. 235. Children's Literature and Story Telling

Three credits

MRS. FORTESS

Designed to provide familiarity with classic and modern literature for children of elementary school age. Techniques and practices in story telling will be stressed, and particular emphasis will be placed on the use of dramatization and graphic materials.

Prerequisite: Ed. 101, 201.

Ed. 236. Teaching the Elementary Social Studies—Three credits

MRS. FORTESS

Study of social situations pertinent to elementary school children; relation of school and home activities to the community; the study of methods and techniques designed to stimulate interest and create understanding. Development of units in civics, history, and geography.

Prerequisite: Ed. 101, 201.

ED. 237. PRINCIPLES OF ELEMENTARY EDUCATION—Two credits

MRS. FORTESS

The historical development of the elementary school; a philosophical background from which are drawn basic principles of elementary education; other factors in the development of the elementary school; promising practices in the elementary school; methodology and guidance; characteristics of the elementary school child; discipline and control; mental and physical hygiene; records and reports; a survey of principles and techniques in the elementary school.

Prerequisite: Ed. 101, 201.

Ed. 238. The Curriculum of the Elementary School

Three credits

MRS. FORTESS

The development of the elementary curriculum; its relation to the society that supports it; the emerging elementary curriculum; adjust-

DESCRIPTION OF COURSES

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ment to individual needs; relation of objectives to children's needs; content and method; utilizing the arts, music, science, physical education, etc., in the elementary curriculum.

Prerequisite: Ed. 101, 201.

Ed. 239. Teaching of Elementary School Science—Two credits

Mr. Hammer

Basic elements of the sciences suitable for elementary school use; materials for demonstration; methods of presentation; consideration of the integration of science in the elementary curriculum; aims and objectives of science teaching; development of a spirit of inquiry.

Prerequisite: Ed. 101, 201.

ED. 241. ART IN THE ELEMENTARY SCHOOL—Two credits THE STAFF

Study of the principles and practices of education in the field of elementary art; methods, aims, objectives; methods and techniques for developing units of work; basic principles; selection and manipulation of various media; the development of creative expression and appreciation.

Prerequisite: Ed. 101, 201.

ED. 242. Music in the Elementary School—Two credits

MR. R. MORAN

Study of methods for developing appreciation for and enjoyment of music through performance and listening; developing the rhythm band; rote singing; program music for children; discovery of talent; writing and interpretation of scales; training in group leadership in singing.

Prerequisite: Ed. 101, 201.

ED. 243. HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL—Two credits THE STAFF

This course considers the health of the elementary school child including wholesome health ideas, attitudes and habits. The prospective teacher learns the fundamentals of first aid, care of the sick and attention to child health problems.

Prerequisite: Ed. 101, 201.

ED. 290. Workshop in Elementary Education—Three credits

THE STAFF

Experienced teachers are afforded an opportunity to study together and to develop projects of particular interest to them. In addition to working individually, students meet to consider current problems in elementary education.

Prerequisite: Teaching experience, permission of the instructor.

Ed. 291. Workshop in the Improvement of Reading Instruction

Two credits

The Staff

Experienced elementary school teachers study the characteristics of an effective developmental reading program, evaluation and diagnosis, methods of individualization and remediation. Practical applications are made in local school classrooms.

Prerequisite: Teaching experience, permission of the instructor.

Ed. 292. Workshop in the Improvement of Mathematics

INSTRUCTION—Two credits The Staff

Experienced elementary school teachers study the characteristics of an effective developmental mathematics program, evaluation and diagnosis, methods of individualization and remediation. Practical applications are made in local school classrooms.

Prerequisite: Teaching experience, permission of the instructor.

ENGINEERING

Associate Professor Hall, chairman; Assistant Professors Heltzel and Worstall; Instructor Thomas.

Engl. 100. Engineering Problems—Two credits The Staff

Lectures and discussions to acquaint the student with the aims, purposes and methods of the engineer. An introduction to the proper method of attack upon problems, proper presentation of solutions, both mathematical and graphical, vertical freehand lettering. Instruction in the use of the slide rule necessary to problem solution. Graphs. Lecture, one hour; practicum, three hours a week.

ENGI. 101. BASIC DRAWING—Two credits

THE STAFF

A basic course covering the elements of projection drawing necessary for students of chemistry. It includes use of instruments, sketching, orthographic and isometric drawing and dimensioning. Practicum, six hours a week.

Engl. 105. Engineering Drawing and Descriptive Geometry I.—

Three credits Mr. Heltzel, Mr. Thomas

This and the following course bear the same relation to the engineering profession as the subject of English bears to our daily life. Use and care of instruments. Technical sketching; orthographic and auxiliary projection drawing with dimensions and sections. Applications of the principles of descriptive geometry. Practicum, seven hours a week.

Engl. 106. Engineering Drawing and Descriptive Geometry II.

—Two credits Mr. Heltzel

Continuation of the principles of descriptive geometry to the solution of engineering space problems. Application of standard drawing conventions to the execution of detail and assembly drawing; tracings and reproduction processes. Practicum, six hours a week.

Prerequisite: Engi. 105.

Chemical Engineering

CH. E. 106. STOICHIOMETRY—Three credits Mr. Worstall

A problem course involving the application of basic chemical and physical concepts to the calculation of heat and material balances as they are encountered in the various chemical industrial processes. Fuels and their combustion products, gas producers, furnace and kiln products. Class, three hours a week.

Prerequisite: Chem. 121; Phys. 151. Co-requisite: Phys. 152.

Civil Engineering

C.E. 103. Plane Surveying—Three credits Mr. Thomas

Lectures, recitations and problems on the theory and practice of plane and topographic surveying. Field exercises, including the adjustment and use of surveying equipment including transit, levels, compass and tape for surveys of area, topography, profile, grading, excavating and the location of details. Interpretation of and mapping from field notes with attendant computations and the balancing of surveys. Emphasis on the application of surveying to engineering work in general. Practicum, seven hours a week. Fee: \$15.

Prerequisite: Engi. 105, Math. 105 or 107 and 109.

C. E. 104. ROUTE SURVEYING—Four credits

MR. THOMAS

A study of the engineering and economic problems affecting the location of routes of communication. Lectures, recitations, field work and problems on the theory and use of simple horizontal, compound, reverse, spiral and vertical alignment curves; grades, cross sections, mass diagrams and earth work computations, grade crossing, right-of-way, and drainage problems. Solar observation to determine true bearing and azimuth. Class, two hours a week; practicum, six hours a week. Fee: \$15.

Prerequisite: C.E. 103.

Mechanical Engineering

M. E. 206. KINEMATICS—Three credits Mr. THOMAS, Mr. HELTZEL Analytical and graphical studies of displacement, velocity and acceleration for rigid bodies in plane motion. Study of kinematic pairs and trains involving linkages, pulleys, gears and cams: instant centers, geartooth outlines and their application, epicyclic gear trains. Class, two hours a week; practicum, three hours a week.

Prerequisite: Engi. 106, Math. 122, Phys. 150.

M.E. 211. MECHANICS I. STATICS—Three credits

MR. HALL

Study of force systems in equilibrium: catenary; friction; first and second moments of areas, volumes, masses; centroids. Class, three hours a week.

Prerequisite: Phys. 150, Math. 125. Co-requisite: Math. 126.

M.E. 212. MECHANICS II. DYNAMICS—Three credits

Laws of motion, rectilinear and curvilinear, for a particle and a rigid body. Work-energy; impulse-momentum. Class, three hours a week. Prerequisite: M.E. 211.

ENGLISH

Professor Davies, chairman; Associate Professor Kruger; Assistant Professors Groh and Heinle; Instructors Fiester, Lord, Miller, Moran, Roberts, Tener, and Tyburski.

Students who major in English are required to complete the following program of English studies: Freshman and Sophomore Years: 101, 102, 131, 151, 152 (16 hours); Junior and Senior Years: 215 (3 hours); 201 or 205 (3 hours); one course from the group 105, 121, 123, 124 (3 hours); four elective courses in literature (12 hours); one elective course in English that can be any course offered by the department (3 hours).

(If 201 is taken, 205 may be taken as one of the four elective courses in literature.)

Majors in English, especially students who wish to take graduate work in English, are strongly advised to take as many courses in foreign languages (preferably French and German) as possible beyond the minimum of twelve hours.

All entering freshmen are required to take a placement test in English. As a result of the test some students may be exempted from taking Eng.

101; such students must take Eng. 102 and 105. Students who show a deficiency may be required to take an extra hour of drill to supplement their work in Eng. 101. Any student in Eng. 101 or 102 may be required to take this extra work should his instructor think it necessary.

Composition

Eng. 101. Composition—Three credits

Principles of exposition; collateral reading; writing of themes.

Eng. 102. Composition—Three credits

Principles of exposition continued; collateral reading; writing of themes; research paper.

Eng. 105. Advanced Exposition—Three credits

A study of the various expository types. Readings. Intensive practice in the writing of informative articles.

Prerequisite: Eng. 101 and 102. In exceptional cases this requirement may be waived.

ENG. 106. SHORT STORY—Three credits Mr. Kruger A writing course. Training in the selection and use of materials for the short story.

Prerequisite: Eng. 102.

Prerequisite: Eng. 101.

Journalism

ENG. 121. JOURNALISTIC WRITING—Three credits MR. MORAN A beginner's course in gathering and writing news. Topics include: definition of news, writing leads and building the story, law of libel, news sources; a brief survey of the history of American journalism and the current status of freedom of the press. Editors of local and nearby papers address the class and answer questions.

Students make comparative study of and report on representative papers of U. S., both dailies and country weeklies. There is constant practice in writing, with weekly news assignments.

Prerequisite: Eng. 102.

Eng. 123. Publicity Writing—Three credits Mr. Moran Fundamental techniques of publicity. Recent developments in fields of: public opinion, propaganda, public relations, public opinion polls.

Special attention is given to trade journals and house organs covering the industrial, merchandising, and professional fields. Weekly themes.

Prerequisite: Eng. 102.

ENG. 124. FEATURE WRITING—Three credits MR. MORAN Feature writing for newspapers and magazines. Analysis of the feature field and the magazine market. Finding suitable subjects and their treatment: the interview, the how-to-do-it article, popular biographies and success stories, personal experiences, narratives. Weekly themes. Prerequisite: Eng. 102.

Language and Literature

Eng. 151. Western World Literature—Four credits

Mr. Davies, Mr. Heinle, Mr. Tener

Survey of western world literature to the beginning of the eighteenth century; lectures, quizzes, conferences.

Prerequisite: Eng. 102, or substitute in composition.

ENG. 152. WESTERN WORLD LITERATURE—Four credits

MR. DAVIES, MR. HEINLE, MR. TENER

Continuation of survey, bringing the study of literature down to the present time.

Prerequisite: Eng. 151.

Eng. 153. American Literature—Three credits Mr. Kruger Survey of American literature from the beginning to the Civil War. Prerequisite: Eng. 102.

Eng. 154. American Literature—Three credits Mr. Kruger Survey of American literature from the Civil War to the present time. Prerequisite: Eng. 102.

Eng. 155 and 156. Contemporary Literature—Three credits each semester

Mr. Kruger

A course designed to familiarize the student with the best books of the twentieth century.

Prerequisite: Eng. 102.

ENG. 201. HISTORY OF THE ENGLISH LANGUAGE—Three credits

MR. TENER

Study of the origins of the English language and of the principal phenomena of later development.

Prerequisite: Eng. 152.

Eng. 205. Chaucer—Three credits

Study of the linguistic features of late Middle English; reading of some of the Canterbury Tales; written reports on collateral reading.

Prerequisite: Eng. 152.

ENG. 211. EARLY ENGLISH DRAMA—Three credits

MR. DAVIES, MR. GROH

Study of the drama as a literary type and its history from the earliest times to 1642; reading of plays by pre-Elizabethan and Elizabethan dramatists exclusive of Shakespeare.

Prerequisite: Eng. 152.

ENG. 212. LATER ENGLISH DRAMA—Three credits

MR. DAVIES, MR. GROH

Study of the drama from 1660 to the present.

Prerequisite: Eng. 152.

ENG. 215. SHAKESPEARE—Three credits

Intensive study of selected plays; written reports on others not studied in class.

Prerequisite: Eng. 152.

Eng. 216. Milton—Three credits

Stress is placed on the poetical works of John Milton; in addition some of the poetry of Donne, Jonson and Dryden is studied.

Prerequisite: Eng. 152.

ENG. 221. AGE OF POPE—Three credits

A study of the poetry and non-fictional prose of this period, including the work of leading essayists, biographers, diarists, and letter writers.

Prerequisite: Eng. 152.

Eng. 222. Age of Johnson—Three credits Mr. Heinle
A study of the poetry and non-fictional prose of 1740-1798, including
the work of leading essayists, biographers, diarists, and letter writers.
Prerequisite: Eng. 152.

Eng. 237. Early English Novel—Three credits Mr. Davies
English prose fiction of the sixteenth and seventeenth centuries; rise
of the novel to the close of the eighteenth century.

Prerequisite: Eng. 152.

ENG. 238. LATER ENGLISH NOVEL—Three credits

The major novelists of the nineteenth and early twentieth centuries.

Prerequisite: Eng. 152.

Eng. 241. The Romantic Movement—Three credits Mr. Miller Study of the poetry of Wordsworth, Coleridge, Scott, and the prose writers contemporary with them.

Prerequisite: Eng. 152.

ENG. 242. THE ROMANTIC MOVEMENT—Three credits Mr. MILLER Study of the poetry of Byron, Shelley, Keats and the prose writers contemporary with them.

Prerequisite: Eng. 152.

Prerequisite: Eng. 152.

Eng. 259. Tennyson and Browning—Three credits Mr. Davies Study of the poetry of Alfred Tennyson and Robert Browning.

Prerequisite: Eng. 152.

ENG. 260. VICTORIAN PROSE—Three credits MR. DAVIES

Study of the influence of movements in science, philosophy, art, religion, and society as reflected in the works of Carlyle, Arnold, Huxley, Newman, and Ruskin.

Eng. 287. American Drama—Three credits Mr. Groh The development of our native drama from the colonial period to the present. Representative plays for reading and study. Written reports. Prerequisite: Eng. 152.

Speech

Eng. 131. Fundamentals of Speech—*Two credits* The Staff A basic course in the preparation and delivery of short speeches.

Eng. 134. Fundamentals of Speech for Technical Students

Three credits

Mr. Kruger, Mr. Groh

Similar to Eng. 131, but with an extra hour of work directed to the specific needs of the student.

MODERN FOREIGN LANGUAGES

Associate Professor Disque, chairman; Associate Professor Dworski; Instructor Henry, Loughnan.

French

A major in French consists of twenty-four hours beyond Fr. 102.

FR. 101. ELEMENTARY FRENCH—Three credits

Introduction to French grammar; practice in reading, writing, and speaking the language.

FR. 102. ELEMENTARY FRENCH—Three credits

Continuation of Fr. 101.

Prerequisite: Fr. 101 or the equivalent.

FR. 103. Intermediate French—Three credits

Review of grammar; practice in oral and written French; selected reading of modern French prose.

Prerequisite: Fr. 102 or the equivalent.

FR. 104. INTERMEDIATE FRENCH—Three credits

Introduction to French civilization; practice in oral and written French.

Prerequisite: Fr. 103 or the equivalent.

FR. 105. TECHNICAL FRENCH—Three credits

Miss Dworski
Intensive practice in translating. A course designed for students who wish to be able to read material in French in their particular fields of interest.

Prerequisite: Fr. 103 or the equivalent.

FR. 106. FRENCH CONVERSATION—Three credits MISS DWORSKI Intensive practice in the spoken language, with emphasis on idiomatic usage. Use of records and the microphone to acquire fluency in speaking Erench

Prerequisite: Fr. 104 or the equivalent.

FR. 107. FRENCH COMPOSITION—Three credits

Study of grammar and idiomatic usage in modern French, applied to composition exercises and free composition.

Prerequisite: Fr. 104 or the equivalent.

Fr. 201-202. Survey of French Literature—Three credits each semester Miss Dworski

A survey of the evolution of French literature from the Middle Ages to the present, with stress on general ideas, literary genres, and outstanding writers of each century. Reading of representative selections from different periods of French literature.

Prerequisite: Fr. 104 or the equivalent.

FR. 203. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY

Three credits

MISS DWORSKI

Study of classicism and the outstanding writers of the seventeenth century.

Prerequisite: Fr. 201-202 or the equivalent.

Fr. 205. French Literature of the Eighteenth Century

Three credits

Miss Dworski

Study of the literature and thought in the eighteenth century, with special emphasis on Montesquieu, Diderot, Voltaire, and Rousseau. Prerequisite: Fr. 201-202 or the equivalent.

FR. 206. FRENCH LITERATURE OF THE NINETEENTH CENTURY

Three credits

MISS DWORSKI

Study of Romanticism Parliam New York Property.

Study of Romanticism, Realism, Naturalism, the Parnassian poets, and Symbolism.

Prerequisite: Fr. 201-202 or the equivalent.

Fr. 208. CONTEMPORARY FRENCH DRAMA—Three credits

Miss Dworski

The development of modern drama from the latter half of the nineteenth century to the present.

Prerequisite: Fr. 201-202 or the equivalent.

German

A major in German consists of twenty-four hours beyond Ger. 102.

GER. 101. ELEMENTARY GERMAN—Three credits

The Staff
Introduction to German grammar; practice in reading, writing, and speaking the language.

GER. 102. ELEMENTARY GERMAN—Three credits

Continuation of German 101. Reading of easy prose and poetry.

Some stress on German culture, life, and customs.

Prerequisite: Ger. 101 or equivalent.

GER. 103. INTERMEDIATE GERMAN—Three credits

Emphasis on difficult grammatical construction and idioms. Reading of prose; practice in speaking and writing German.

Prerequisite: Ger. 102 or equivalent.

GER. 104. INTERMEDIATE GERMAN—Three credits

Continuation of Ger. 103. Rapid reading of German works representative of German life and history; practice in writing and speaking German.

Prerequisite: Ger. 103 or equivalent.

GER. 105. SCIENTIFIC GERMAN—Three credits

Reading of selections from scientific German.

Prerequisite: Ger. 103 or equivalent.

GER. 106. GERMAN CONVERSATION—Three credits MR. DISQUE Emphasis laid on speaking, with drill in the colloquial vocabulary. Prerequisite: Ger. 104 or equivalent.

GER. 107. GERMAN COMPOSITION—Three credits MR. DISQUE Idiomatic usage in modern German. To develop the ability to write free compositions.

Prerequisite: Ger. 104 or equivalent.

GER. 201-202. Survey of German Literature

Three credits each semester

Mr. Disque

A survey of the literature of the important periods from the beginning to 1932.

Prerequisite: Ger. 104 or equivalent.

GER, 203. GOETHE—Three credits

Reading and interpretation of selected works of Goethe. Lectures and individual reports.

Prerequisite: Ger. 201-202 or equivalent.

GER. 204. SCHILLER—Three credits

MR. DISQUE

Poet of German idealism.

Prerequisite: Ger. 201-202 or equivalent.

GER. 205. NINETEENTH CENTURY GERMAN DRAMA—Three credits

Mr. Disque

The German drama of the nineteenth century from Ludwig Tieck to Gerhart Hauptmann. Lectures and reports on the literary and cultural history of the times.

Prerequisite: Ger. 201-202 or equivalent.

GER. 206. MODERN GERMAN SHORT STORY—Three credits

Mr. Disou

The modern German short story from naturalism to the present. Individual reports; lectures on the cultural and literary history of the period.

Prerequisite: Ger. 201-202 or equivalent.

Spanish

A major in Spanish consists of twenty-four hours beyond Sp. 102.

SP. 101. ELEMENTARY SPANISH—Three credits

Introduction to Spanish grammar; practice in reading, writing, and speaking the language.

Sp. 102. Elementary Spanish—Three credits

Continuation of Spanish 101.

Prerequisite: Sp. 101 or equivalent.

Sp. 103. Intermediate Spanish—*Three credits*Review of grammar; practice in oral and written Spanish; selected reading of modern Spanish prose.

Prerequisite: Sp. 102 or equivalent.

Sp. 104. Intermediate Spanish—Three credits

Introduction to Spanish civilization; practice in oral and written Spanish.

The Staff

Prerequisite: Sp. 103 or equivalent.

SP. 105. COMMERCIAL SPANISH—Three credits

MISS DWORSKI
The study of Spanish as it pertains to economic relations between
the Spanish-speaking countries and the United States. Special emphasis
on the writing of business letters.

Prerequisite: Sp. 103 or equivalent.

Sp. 106. Spanish Conversation—Three credits Miss Dworski Intensive practice in the spoken language, with emphasis on idiomatic usage. Use of records and the mirrophone to acquire fluency in speaking Spanish.

Prerequisite: Sp. 104 or equivalent.

Sp. 107. Spanish Composition—Three credits

Miss Dworski
Study of grammar and idiomatic usage in modern Spanish, applied to composition exercises and free composition.

Prerequisite: Sp. 104 or equivalent.

Sp. 108. Spanish American Culture—Three credits Miss Dworski The cultural, economic, and political development of the Spanish American countries.

Prerequisite: Sp. 103 or equivalent.

Sp. 201-202. Survey of Spanish Literature

Three credits each semester

MISS DWORSKI

A survey of the evolution of Spanish literature from the Middle Ages to the present, with stress on general ideas, literary genres, and outstanding writers of each century. Reading of representative selections from different periods of Spanish literature.

Prerequisite: Sp. 104 or equivalent.

Sp. 203. THE GOLDEN AGE OF SPANISH LITERATURE—Three credits

Study of the great authors of the sixteenth and seventeenth centuries, with special emphasis on Cervantes, Lope de Vega, Tirso de Molina, Alarcón, and Calderón.

Prerequisite: Sp. 201-202 or equivalent.

Sp. 204. NINETEENTH CENTURY SPANISH DRAMA—Three credits

Miss Dworski

Study of representative works of nineteenth century Spanish drama. Prerequisite: Sp. 201-202 or equivalent.

Sp. 205. NINETEENTH CENTURY SPANISH NOVEL—Three credits

Miss Dworski

The development of the Spanish novel in the nineteenth century. Prerequisite: Sp. 201-202 or equivalent.

GENERAL SCIENCE

Bio. 100. See page 87.

GEOL. 100. GENERAL GEOLOGY—Two credits

MR. REIF

General geology deals with the probable formation of the planet Earth, the establishment of its crust, and subsequent movements of the crust. The chief approach of the course is through a consideration of the paleontological, physical, and economic evidence in Earth's rocks.

Phys. 100. See page 131.

HISTORY

Professor Thatcher, chairman; Associate Professor Kaslas, Mui; Instructors Connolly and Ritchie.

A major in history consists of twenty-four hours, of which twelve are in courses numbered 200 or above. Majors in history are required to take Hist. 101, 102, 107, and 108; Hist. 101 and 102, however, may not count toward the twenty-four hours constituting a major.

HIST. 101-102. HISTORY OF WESTERN CIVILIZATION THE STAFF

Three credits each semester.

A chronological survey of the civilization of the western world from the earliest times to the present. Emphasis is placed on general trends and on concepts that have influenced the modern world. Due attention is given to the part played by America in world history, especially during the expansion of Europe and in the twentieth century.

HIST. 107. AMERICAN AND PENNSYLVANIA HISTORY TO 1865

Three credits

MR. THATCHER

A general survey extending from the period of discovery and exploration to the end of the Civil War.

All students will be required to do a certain proportion of their outside reading in the history of Pennsylvania and its relation to the development of the nation.

HIST. 108. AMERICAN HISTORY SINCE 1865—Three credits

MR. THATCHER

A general survey covering the period from 1865 to the present.

HIST. 206. THE UNITED STATES IN THE TWENTIETH CENTURY

Three credits

MR. THATCHER

An intensive study of the period since the Spanish-American War, emphasizing the emergence of the United States as a world power and the economic and social problems of the present century.

Prerequisite: Hist. 107 and 108.

HIST. 223-224. AMERICAN CONSTITUTIONAL HISTORY

Three credits each semester

MR. THATCHER

A study of the origins of the American Constitution and the growth of the American constitutional system with special attention to the role of the Supreme Court.

Prerequisite: Hist. 107, 108, and P.S. 101. Restricted to juniors and seniors. Hist. 223 is a prerequisite for Hist. 224.

HIST. 225. HISTORY OF THE AMERICAN FRONTIER—Three credits

MR. THATCHER

A study of the westward movement in American history. Prerequisite: Hist. 107 and 108.

HIST. 228. HISTORY OF THE FOREIGN POLICY OF THE UNITED STATES

Three credits

MR. THATCHER

A study of the evolution of the several policies that give direction to the relations of the United States with other nations.

Prerequisite: Hist. 107, 108, and P.S. 101. Restricted to juniors and seniors.

HIST. 235. SOVIET RUSSIA AND THE FAR EAST—Three credits MR. Mui A study of the historical conditions under which the Communist state was established in Russia and portions of the Far East.

Prerequisite: Hist. 101 and 102.

HIST. 242. ENGLISH HISTORY FROM THE REIGN OF ELIZABETH

Three credits

MR. MUI

Traces the growth and expansion of England from a national state to a world empire and later to a mother of commonwealths. The development of the national church, the Puritan revolt, the influences of the American and the French revolutions, the industrial revolution, political and social reform, growth of the cabinet system, and liberalism.

Prerequisite: Hist. 101 and 102.

HIST. 255. EUROPE IN THE NINETEENTH CENTURY—Three credits

MR. KASLAS

A study of the political, social, and cultural development of Europe from the Congress of Vienna to World War I.

Prerequisite: Hist. 101 and 102.

HIST. 256. EUROPE IN THE TWENTIETH CENTURY—Three credits

MR. KASLAS

Against a background of the internal and international developments of the leading powers, the class will study the origins and results of the two World Wars.

Prerequisite: Hist. 101 and 102.

MATHEMATICS

Assistant Professor T. R. Richards, chairman; Assistant Professor Wasileski; Instructors Morgan, West and F. Worstall.

The major in mathemaaics is outlined on page 54.

MATH. 99. ALGEBRA REVIEW-No credit

THE STAFF

Secondary algebra, extending through simultaneous quadratic equa-

Three hours a week.

MATH. 100. SAME AS PHYS. 101—See page 131.

MATH. 101. FUNDAMENTALS OF MATHEMATICS—Three credits

THE STAFF

A course designed for those who want a general background in mathematical concepts without specialization in techniques. Students taking Math. 105, 107, or 109 will not be granted credit for Math. 101 or 102.

MATH. 102. FUNDAMENTALS OF MATHEMATICS—Three credits

THE STAFF

A continuation of Math. 101.

MATH. 105. COLLEGE ALGEBRA AND TRIGONOMETRY—Five credits

THE STAFF

A combination of Math. 107 and 109. Prerequisite Math. 99 or its equivalent.

MATH. 107. COLLEGE ALGEBRA—Three credits

THE STAFF

Proportion, progressions, inequalities, mathematical induction, binomial theorem, complex numbers, roots of equations, permutations and combinations, probability, determinants, partial fractions.

Prerequisite: Math. 99 or its equivalent.

MATH. 109. PLANE TRIGONOMETRY—Three credits

THE STAFF

Trigonometric functions, solutions of triangles, trigonometric identities, inverse functions, trigonometric equations.

Prerequisite: Math. 99 or its equivalent.

MATH. 115. MATHEMATICS OF FINANCE—Three credits THE STAFF Progressions, binomial theorem, logarithms, simple interest, compound interest, equations of value, annuities, sinking funds, amortization, depreciation, capitalized cost.

Prerequisite: Math. 99 or its equivalent.

MATH. 118. INTRODUCTION TO STATISTICS—Three credits THE STAFF Frequency distributions and their graphical representation, measures of central tendency, dispersion, skewness, kurtosis, correlation, elemen-

of central tendency, dispersion, skewness, kurtosis, correlation, elementary curve fitting, use of tables of areas under normal curve.

Prerequisite: Math. 99 or its equivalent.

MATH. 122. ANALYTIC GEOMETRY—Four credits

THE STAFF

Study of geometric figures by means of coordinate systems, including the general problem of the equation of a locus, straight lines, circles, conic sections, transformation of coordinates, polar coordinates, parametric equations, families of curves, introduction to solid analytic geometry.

Prerequisite: Math. 105, or both Math. 107 and Math. 109.

MATH. 125. CALCULUS I-Four credits

THE STAFF

Limits, derivatives and differentials, indefinite and definite integrals, differentiation and integration of algebraic functions, applications.

Prerequisite: Math. 122.

MATH. 126. CALCULUS II—Four credits

THE STAFF

Differentiation and integration of transcendental functions, applications, improper integrals, indeterminate forms, infinite series, partial derivatives, multiple integrals, and introduction to differential equations.

Prerequisite: Math. 125.

MATH 127. TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS MR. WASILESKI Three credits

Building of a program in secondary mathematics, materials of instruction, aids in teaching, maintenance of interest, testing, informal practice in teaching arithmetic, algebra, plane and solid geometry, trigonometry, and logarithms.

Prerequisite: Math. 125.

MATH. 213. HIGHER ALGEBRA—Three credits

MR. RICHARDS

Sets, mappings, relations, development of real number system from Peano's axioms, polynomials, the complex number field, groups.

Prerequisite: Math. 125, or permission of instructor.

MATH. 214. LINEAR ALGEBRA—Three credits

MR. RICHARDS

Vector spaces, linear independence, linear transformations, matrices, determinants, systems of linear equations.

Prerequisite: Math. 213 or permission of instructor.

MATH. 220. COLLEGE GEOMETRY—Three credits

MR. WASILESKI

Similar figures, systems of circles, circular inversion, triangles, Ptolemy's theorem, circles of antisimilitude, poles and polars, medians, orthocenters, nine-point circle, Desargues' theorem, Pascal's theorem, theorem of Pappus.

Prerequisite: plane geometry.

MATH. 228. MATHEMATICAL STATISTICS I—Three credits

MR. WASILESKI

Probability, frequency functions, empirical distributions of one variable, moment generating functions, binomial and Poisson distributions, normal distribution, the null hypothesis, elementary sampling theory.

Prerequisite: Math. 126.

MATH. 229. MATHEMATICAL STATISTICS II—Three credits

MR. WASILESKI

Correlation and regression, theoretical distributions of more than one variable, normal surface, goodness of fit, chi-square distribution, testing hypotheses, estimation of parameters, confidence intervals, small samples, student's t-distribution, testing for randomness.

Prerequisite: Math. 228.

MATH. 235. VECTOR ANALYSIS—Three credits

THE STAFF

Vector algebra, differentiation of vectors, divergence and curl, the operator del, curvilinear coordinates, vector fields, applications.

Prerequisite: Math. 126.

MATH. 240. DIFFERENTIAL EQUATIONS—Three credits THE STAFF First order equations, linear equations, applications, solution by successive approximation, systems of differential equations.

Prerequisite: Math. 126.

MATH. 251. ADVANCED CALCULUS I—Three credits MR. RICHARDS

Introduction to the theory of functions of real variables. The emphasis in this course and the following one is on proof, by the delta-epsilon technique, of theorems concerning sequences and other functions of one variable. Some time is spent on functions of more than one variable.

Prerequisite: Math. 126.

MATH. 252. ADVANCED CALCULUS—Three credits

MR. RICHARDS

A continuation of Math. 251.

Prerequisite: Math. 251.

MUSIC

Associate Professor Detroy, chairman; Assistant Professor Moran; Instructors Balshaw, Clark, Hawkins, Isaacs, A. Liva, F. Liva, Sheeder

Liberal Arts students wishing to major in music will follow the program outlined on page 55.

APPLIED MUSIC¹

Individual and group instruction is offered at all levels of difficulty to students in piano, pipe organ, voice, and orchestral and band instruments. A series of fifteen lessons a semester and a practical demonstration (examination) before the music faculty are necessary if credit is to be obtained for such study.

Students who are not music majors may receive one credit each semester for voice or instrumental study. No examination is necessary if credit is not desired by the student.

The ability, interest, and progress of students intending to major in music will be evaluated at the end of the sophomore year by the music faculty. Students will be advised before the opening of the following semester if the faculty does not recommend a continuation of the music major.

Mus. 100. Introduction to Music-Three hours

Mr. Detroy, Mr. Moran

An elementary course in the art of enjoying and listening to music. Non-technical, it covers briefly the entire range of music in various forms, styles, and media. Emphasis is placed upon enlarging the musical horizon through the use of a considerable number of illustrations.

Mus. 101-102-103-104. Theory of Music—Five credits each course

Mr. Detroy, Mr. Moran

The study of the theory of music is centered upon three main principles:

- (1) The recognition of intervals and meter through dictation.
- (2) The structure of chords and chord progressions through keyboard harmony.
- (3) The writing of music through exercises in harmonic and contrapuntal technics.

The first two semesters of theory are divided between ear training, two hours; solfeggio, two hours; harmony, one hour. The third and fourth semesters are divided between ear training, one hour; solfeggio, one hour; harmony, three hours.

The concentration of all theory into these four courses is in accordance with the method now employed in many of our leading schools of music.

There is no prerequisite for Mus. 101. Students may be admitted to Mus. 102, 103, and 104 by examination.

Mus. 109. HISTORY OF Music—Three credits

MR. DETROY

A detailed study of the history of music from the beginning of civilization to the seventeenth century.

Mus. 110. History of Music—Three credits

MR. DETROY

A continuation of Mus. 109, beginning with J. S. Bach and tracing musical development to the present day. Twentieth century music will be emphasized in the final weeks of study.

MUSIC 111-112. PIANO CLASS 1 AND 2—Two credits each semester

MISS CLARK

Class instruction in secondary piano. The classes will be divided into suitable groups according to proficiency. This course is required for all music education majors who cannot play piano grade 4 or better.

No prerequisite.

MUSIC 113-114. PIANO CLASS 3 AND 4—Two credits each semester

MISS CLARK

Class instruction in secondary piano in advance of Music 112. This course is a continuation of the required course for all music education majors who cannot play piano grade 4 or better.

Prerequisite: Mus. 112.

Mus. 121-122-123-124. BAND—One-half credit each semester

Mr. Moran

The band offers the student a varied program for concerts and for various athletic events. Students desiring to participate in the band should consult with the Director.

All instrumental music education majors are required to participate in the band for four years.

Mus. 125-126-127-128. CHORUS—One-half credit each semester

MR. DETROY

The chorus offers the student a complete range of sacred and secular choral music. Students desiring to participate in the chorus should consult with the Director.

All vocal and piano music education majors are required to participate in the chorus for four years.

Music 131-132-133-134. Orchestra—One-half credit each semester

MR IIVA

Participation in the Wyoming Valley Philharmonic Orchestra gives the student experience in the complete range of symphonic literature. Students desiring to participate in the orchestra should consult with the Director.

¹ For fees see page 28.

Music 215. Instrumentation—Two credits

MR. DETROY AND MR. MORAN

The instruments of the modern symphonic orchestra, their capabilities and limitations. The technique of scoring for small instrumental combinations; transposition and clef manipulation.

Prerequisite: Mus. 102 or the approval of the Chairman of the Department.

MUSIC 216. ORCHESTRA AND BAND ARRANGING—Two credits

Mr. Detroy and Mr. Moran

Scoring for the large orchestra or the modern symphonic band. The student may select his field of concentration.

Prerequisite: Mus. 215.

Mus. 217. Analysis—Two credits

MR. DETROY

The technique of composition as disclosed by melodic, harmonic, and structural analysis of music in varied styles and from diverse periods.

Prerequisite: Mus. 102 or equivalent as demonstrated by an examination

Mus. 218. Counterpoint—Three credits

MR. DETROY

A study of the sixteenth century art of contrapuntal writing as found in the styles of Palestrina, di Lasso, and Ingegneri.

Prerequisite: Mus. 102.

Music Education

Mus. Ed. 101-102. Clarinet Class and Band Methods—Two credits per semester Mr. Moran

Methods of teaching and instruction in the clarinet for those in the public school music course.

No prerequisite.

Mus. Ed. 103-104. Brass Class and Band Methods—Two credits per semester Mr. Moran

A course, usually in trumpet, for students not majoring in the brass field.

No prerequisite.

Mus. Ed. 105. Woodwind Class Methods—Two credits per semester

A class conducted as an introduction to the teaching of such woodwinds as clarinet, oboe, flute, and bassoon, with demonstrations of the class teaching of those instruments.

Prerequisite: Mus. Ed. 102.

Mus. Ed. 106. Brass Class Methods—Two credits

MR. MORAN

A class in brass is conducted as an introduction to the teaching of brass instruments and as demonstration of class teaching of these instruments. The instruments taught include trumpet, French horn, trombone, baritone, and tuba.

Prerequisite Mus. Ed. 104.

Mus. Ed. 107-108. Voice Class and Methods—Two credits per semester

The Staff

A course in the fundamentals of correct voice production; breathing, breath control, elementary study of vowel forms, and consonants. Elementary songs are used to develop the student's own voice as well as to train him in voice pedagogy.

No prerequisite.

Mus. Ed. 109-110. Conducting and School Music Materials—Two credits per semester Mr. Detroy and Mr. Moran

The development of an adequate baton technique and the presentation of various kinds of school music material, stressing particularly elementary and high school instrumental materials the first semester and high school choral materials the second semester.

No prerequisite.

No prerequisite.

Mus. Ed. 111-112. VIOLIN CLASS AND METHODS—Two credits per

A class in elementary violin playing as a practical introduction to the technical problems involved in the playing of stringed instruments.

Mus. Ed. 113-114. String Instrument Class Methods—Two credits per semester Mr. Liva

A class in the playing of the viola, violoncello, and bass as an introduction to the teaching of these instruments and as a demonstration of class teaching.

Prerequisite: Mus. Ed. 112.

Mus. Ed. 201. Elementary School Music Methods—Two credits

The course involves a general preparation for the teachers of music in the elementary grades. It entails a study of the principles, procedures, and objectives in school music.

No prerequisite.

Mus. Ed. 202. High School Music Methods—Two credits

MR. MORAN

The course is planned to provide a preparation for teaching the various aspects of music in the high school.

No prerequisite.

Mus. Ed. 203-204. Observation and Practice Teaching—Four credits per semester The Staff

A course in the observation and practice teaching of vocal or instrumental music in the elementary or high schools. Fee: \$10.00 each semester.

NURSING EDUCATION

Assistant Professor Jessee, chairman; Instructors Jackson, Janjigan, Klein, M. Riley, Seeherman and Yencha.

COOPERATIVE PROGRAM LEBANON VALLEY COLLEGE AND WILKES COLLEGE

Lebanon Valley College and Wilkes College have entered into a cooperative program whereby nurses working in the vicinity of Annville and Lebanon may earn a degree in Nursing Education from Wilkes College by taking their academic credits on the campus at Lebanon Valley College and their professional credits at Wilkes, either in extension at the Hospital or in residence at Wilkes-Barre

The usual residence requirements for a degree in Nursing Education may be satisfied by taking one-half the work on the campus at Lebanon Valley College and the other one-half at Wilkes College.

Enrollment in all of the following courses, with the exceptions of N.E. 101 and 102, is limited to graduate nurses.

N.E. 101. FOUNDATIONS OF NURSING—Three credits Miss Jessee

A general survey of the history of nursing with emphasis upon the religious, social and educational factors that have stimulated its development.

N.E. 102. TRENDS IN NURSING EDUCATION—Two credits Miss Jessee A discussion of present problems in nursing and trends or patterns that emerge in the efforts to solve these problems.

N.E. 104. COMMUNITY RESOURCES—Two credits Miss Jessee

A survey of the functions and activities of agencies and organizations contributing to the health, and social welfare of the citizens of the community.

N.E. 106. Supervision and Administration—Two credits

MISS JESSEE

A discussion of the basic principles of supervision and administration with emphasis upon democratic leadership and the development of constructive interpersonal and interdepartmental relationships.

N.E. 107. PRINCIPLES AND METHODS IN NURSING EDUCATION

Two credits

Miss Jessee

This course deals with the selection and organization of teaching materials and learning experiences. It includes the appraisal of effective methods of teaching and the evaluation of student progress and achievement.

N.E. 112. FIELD EXPERIENCE IN SUPERVISION OR TEACHING

Four credits

Miss Jessee

Supervised observation and practice in a hospital. Prerequisite: Approval of advisor.

N.E. 113 & 114. MEDICAL AND SURGICAL NURSING—Two credits each each semester

MISS YENCHA

Advanced study of nursing principles and techniques as applied to the expert nursing care of medical-surgical patients. Offered in two semesters.

N.E. 115. Obstetric Nursing—Two credits Mrs. Seeherman Advanced study of nursing principles and procedures as applied to expert care of the obstetric patient.

N.E. 116. Pediatric Nursing—*Two credits*Advanced study of nursing principles and procedures as they apply to the effective care of children.

N.E. 117. PSYCHIATRIC NURSING—Two credits Dr. Janjigian Advanced study of nursing principles and procedures as utilized in providing expert care for psychiatric patients.

N.E. 118. Public Health Nursing—Two credits Miss Jackson An introduction to the field of public health nursing, including historical development, organization, functions, and trends.

N.E. 119. Public School Nursing—Two credits Miss Jackson A study of the public school health program and the functions of the nurse as an integral part of the health team.

N.E. 120. PROBLEMS OF SCHOOL NURSING—Two credits The STAFF The identification and discussion of the problems involved in the administration of school health programs.

PHILOSOPHY—RELIGION

Associate Professor Vujica, chairman; Instructor Pitts and Schindler.

A major in the combined fields of philosophy and religion consists of twenty-four hours in philosophy and religion. The courses may be selected from these two fields as desired by the student.

Philosophy

PHIL. 101. INTRODUCTION TO PHILOSOPHY—Three credits Mr. VUJICA

An introduction to the main problems of philosophy: the nature of the universe; the origin of life; the nature of mind and soul; the freedom of the will; the sources, nature and validity of knowledge. The main types of philosophy, such as Materialism, Idealism, Realism, Pragmatism are also discussed.

PHIL. 102. LOGIC—Three credits

MR. VUJICA

The objective of the course is to familiarize the student with the elementary principles of clear and effective thinking by the study of the nature and rules of both deductive and inductive reasoning as well as the principles of scientific methodology.

PHIL. 203. INDIVIDUAL AND SOCIAL ETHICS—Three credits Mr. VUJICA

A critical study of standards for judging the rightness or wrongness of conduct. Formalism, Utilitarianism, Self-realizationism and other great ethical systems are discussed. The application of moral principles to social, economic and political life.

PHIL. 204. PHILOSOPHY OF RELIGION—Three credits MR. VUJICA

A philosophic scrutiny of the phenomenon religion. The nature and forms of religious experience; the relation of faith and reason; examination of arguments for God's existence; the interpretation of good and evil in the world; the argument for immortality.

PHIL. 205. AESTHETICS—Three credits

THE STAFF

Analysis of the nature, standards and criteria of beauty in arts; the meaning of beauty judgments and the processes of appreciation. An investigation of the objective qualities of those things which are found to be beautiful.

PHIL. 206. SOCIAL AND POLITICAL PHILOSOPHIES—Three credits

MR. VUIICA

A discussion of fundamental principles underlying social and political institutions. The theories of Plato, Aristotle, Hobbes, Locke, Rousseau, Hume, Burke, Hegel, Bentham, Mill and others will be examined. Special attention to the contemporary scene.

PHIL. 207. PHILOSOPHIES OF HISTORY—Three credits Mr. VUJICA

An examination of the principal interpretations of history. The views of Augustine, Rousseau, Nietzsche, Hegel, Marx, Comte, Wundt, Spengler, Toynbee, Schweitzer, Sorokin, Niebuhr and others on the meaning and purpose of historical events.

PHIL. 212. HISTORY OF MODERN PHILOSOPHY—Three credits

MR. VUJICA

The most important systems of philosophy from the renaissance through the end of the nineteenth century. Seventeenth century rationalism (Descartes, Spinoza, Leibnitz). Eighteenth century empiricism (Locke, Berkeley, Hume). Kant's criticism and Hegel's idealism. Post-Kantian and post-Hegelian philosophies. The impact of modern science on philosophical speculation.

PHIL. 213. RECENT AND CONTEMPORARY THOUGHT—Three credits

MR. VU JICA

The principal trends in twentieth century philosophies. The contributions of Bergson, James, Dewey, Santayana, Croce, Russell, Whitehead, Heidegger, Maritain and other recent and contemporary philosophers to the problems and ideas characteristic of the age.

Religion

REL. 101. MAN'S RELIGIONS—Three credits

MR. VUJICA

Nature and origin of religion. Significant founders and leaders of the great historical and living religions. Sacred literatures, beliefs, and rituals. A comparison of the most important features of the great religions. The contributions of religion to the development and preservation of cultural values.

Rel. 201. The Literature of the Old Testament—Three credits

The Staff

A study of the religious thought and practice of the early Hebrews. Codes and critical analysis of the writings of the Old Testament. Comparative studies are made of the Douay, King James, and Jewish translations of the Old Testament.

REL. 202. THE TEACHINGS OF THE GREAT HEBREW PROPHETS THE STAFF Three credits

A study of the Prophetic and Wisdom literature. Emphasis is placed upon the Prophetic and Post-Exilic periods of Hebrew history. The gradual rise of moral ideas is investigated. The course is a continuation of Rel. 201.

REL. 204. THE LITERATURE OF THE NEW TESTAMENT—Three credits MR. VUJICA

A study of the types of literature found in the New Testament. Problems of language and authorship. The religious teachings of Jesus and the Apostolic Church are studied against the background of their own time and examined in their significance for contemporary life.

PHYSICAL EDUCATION AND HYGIENE

Instructor Reese, chairman; Instructor Bubeck.

Because of the importance of health and the possession of a sound body, attention is given to the physical well-being of students as a regular part of the curriculum; mass athletics and some form of sport or exercise for each student are included in the program of physical education. Physical education is required of both men and women during the freshman and sophomore years.

The College men at the beginning of each year are given a medical and a physical examination. The work in physical education includes soccer, football, basketball, baseball, volley ball, and other competitive

The College women also are given a thorough medical and physical examination before entering upon the program of physical education. The work for women consists of such activities as dancing, basketball, and natural gymnastics.

P.E. 101-102. Physical Education¹

THE STAFF One credit each semester This course is designed to promote physical coordination and good

health habits and to encourage participation in activities that will provide relaxation and exercise throughout life. Two hours each week.

P.E. 103-104. PHYSICAL EDUCATION—One credit each semester THE STAFF

This course is a continuation of P.E. 101 and 102.

P.E. 105-106. PERSONAL HYGIENE—One credit each semester

THE STAFF

A study of present day health problems. The course undertakes to help students enjoy maximum health and happiness through better understanding of nutrition, infection, disease, nervous and mental disorders, and problems of parenthood. One hour each week.

PHYSICS

Associate Professor Hall, chairman; Assistant Professors Heltzel and Worstall; Instructor Thomas.

PHYS. 100. PHYSICAL SCIENCE—Three credits MR. WORSTALL

A course for the non-science student to enable him to understand and appreciate the universe in which he lives; the methods, concepts, and vocabulary of physics and applications of some of its outstanding principles to the needs of the individual and the community; and the manner in which the continually expanding frontiers of science affect our future way of life. Lecture demonstration three hours a week.

PHYS. 101. BASIC PHYSICAL PROBLEMS—One credit

An introduction to the proper procedure for problem solution, both mathematical and graphical. Slide rule practice, graphs, and lettering. Practicum 3 hours a week.

PHYS. 111-112. INTRODUCTORY PHYSICS—Four credits Mr. WORSTALL

An introductory course designed to promote an understanding of the more important fundamental laws and methods of the major sections of Physics. Laboratory work to emphasize basic principles and to acquaint the student with measuring instruments and their use as well as the interpretation of experimental data. First semester: mechanics, wave motion, sound, and heat. Second semester: electricity, magnetism, and optics. Three class hours and one three-hour laboratory. Fee: \$15 each

Prerequisite: Math. 105, or Math. 107, 109, or permission of in-

PHYS. 119. METEOROLOGY—Three credits

A treatment of the fundamentals of meteorology, such as the earth's atmosphere, composition and movement. Atmospheric conditions accompanying weather changes. Weather predictions, air-mass analysis and the evaluation of weather and climate as related to agriculture, architecture, aviation, public utilities, transportation, business, industry, health, and recreation. Class three hours a week.

PHYS. 150. GENERAL PHYSICS I—Four credits MR. HALL AND STAFF A thorough grounding in the physical laws of nature. Mechanics.

¹ Class instruction in personal hygiene is required of all students, even those excused by physicians from taking physical education.

Instruction by demonstration lecture, recitation, and experimental work. Class three hours a week and laboratory three hours a week. Fee: \$15.

Prerequisite: Math. 105, or Math. 107, 109.

PHYS. 151. GENERAL PHYSICS II—Four credits Mr. HALL AND STAFF Continuation of Phys. 150. Sound, heat, and light. Class three hours a week and laboratory three hours a week. Fee: \$15.

Prerequisite: Phys. 150.

Phys. 152. General Physics III—Four credits Mr. Hall and Staff Continuation of Phys. 150 and 151. Electricity and modern physics. Class three hours a week and laboratory three hours a week. Fee: \$15. Prerequisite: Phys. 150.

PHYS. 251. ELECTRICAL MEASUREMENTS—Three credits Mr. THOMAS
Precision measurement of electrical quantities and their application
to the field of chemistry; includes thermal electromotive force, resistance
thermometers, photo electromotive force, elementary electronic circuits
and their application. Class two hours a week and laboratory three hours
a week. Fee: \$15.

Prerequisite: Phys. 152, Math. 126.

POLITICAL SCIENCE

Professor Mailey, chairman; Instructors Hibbard, and O'Karma.

A major in political science consists of twenty-four hours. All courses except P.S. 101 are acceptable toward the major.

P.S. 101. AMERICAN FEDERAL GOVERNMENT—Three credits

THE STAF

A study of the national government and the institutions related to it. Particular emphasis is placed on the Constitutional bases of the American system, the processes by which policy is enacted into law, and the methods by which those same policies are administered. The impact of the citizen on the government and of the government on the citizen is repeatedly emphasized.

P.S. 201-202. Constitutional Law—Three credits each semester

Mr. Hibbard

A course intended to show the growth of our Constitution by the case study method. The underlying principles of federalism and the

changing constitutional position of the states are particularly emphasized.

Prerequisite: P.S. 101.

P.S. 203. POLITICS AND POLITICAL PARTIES—*Three credits* Mr. MAILEY A course intended to analyze the movements of political parties, elections, and the various methods used to gain control.

Prerequisite: P.S. 101.

P.S. 204. Public Opinion and Propaganda—Three credits

MR. MAILEY

A study in the behavior of governance, including the factors which determine attitude, the formation and expression of public opinion, and propaganda as used by pressure groups.

Prerequisite: P.S. 101 and Soc. 100.

P.S. 205. STATE GOVERNMENT—Three credits Mr. Hibbard

A broad, general course covering the structure, powers, and function of state governments in the United States. Special emphasis is placed on the Pennsylvania State Government.

Prerequisite: P.S. 101.

P.S. 206. MUNICIPAL GOVERNMENT—Three credits Mr. HIBBARD

A course undertaking the study of the organization, work, and administration of local government. Since the national government has assumed a new significance today, special attention is given to the relationship between local and national government.

Prerequisite: P.S. 101.

P.S. 207. Public Administration—Three credits Mr. Mailey
A study of the organization, activity, problems, and the recruitment
policy of the public service.

Prerequisite: P.S. 101.

P.S. 208. LABOR LEGISLATION—Three credits Mr. MAILEY

A course dealing with the role of government in the field of labor relations and with the laws affecting the conditions of employment and employee-employer relations. The course stresses the increasing importance of government in a field heretofore free of any regulation.

Prerequisite: P.S. 101.

P.S. 209. SOCIAL LEGISLATION—Three credits Mr. MAILEY

A course dealing with the broad, humanitarian, social legislation of recent years which is generally labeled social insurance: unemployment compensation, workmen's compensation, and social security.

Prerequisite: P.S. 101.

P.S. 221. INTERNATIONAL LAW—Three credits

MR. KASLAS

A study of the development of the body of customs and rules which states have developed to govern their relations, with particular consideration for the responsibility of states for their enforcement.

Prerequisite: P.S. 101.

Desideratum: United States and European history.

P.S. 222. International Politics—Three credits

MR. KASLAS

A broad, general course which aims to present many of the factors that condition the foreign policies of nations.

Prerequisite: P.S. 101.

Desideratum: Some knowledge of history, governments, and geography.

P.S. 223. European Governments—Three credits Mr. Kaslas

A study of two European governments representing two diametrically opposed ideologies, the English and the Russian. Since political institutions in the American system are traceable to the English, the first half of the course is devoted to the English government; the second half is a consideration of Russian political institutions. Comparisons between the two are continually made.

Prerequisite: P.S. 101.

PSYCHOLOGY

Assistant Professor R. Riley, chairman; Instructor Kanner.

A major in psychology consists of twenty-four hours. Psychology 100 is not accepted toward a major; Sociology 255 is accepted.

The Department requires that psychology majors take one year of a laboratory science; they may elect biology, chemistry, or physics and substitute this for either Biology 100 or Physics 100. Students planning to take graduate work in psychology should study either French or German in order to meet graduate school requirements.

The major in psychology is designed for students who plan to continue the study of psychology on the graduate level, as well as for those whose interests lie in the teaching of psychology in colleges or in the application of the study to such fields as advertising, clinical work, business, education, and industrial personnel work. Students are cautioned that an undergraduate major in psychology does not qualify them for professional psychological work. No student can qualify as a psychologist without advanced graduate study; in a great many fields today,

moreover, professional psychologists must hold the degree of Doctor of Philosophy.

Students who desire certification by the Pennsylvania Department of Public Instruction as psychological examiners or public school psychologists should carefully plan their programs under the direction of their faculty advisers to preclude the possibility of omitting necessary courses.

PSY. 100. GENERAL PSYCHOLOGY—Three credits

An introduction to the study of human behavior. The emphasis is on the study of the individual and his reactions to other individuals and to his environment. An attempt is made to equip the student with certain general psychological principles and to encourage the acquisition of a technical vocabulary.

PSY. 201. ADVANCED GENERAL PSYCHOLOGY—Three credits THE STAFF

A more detailed study of some of the topics treated only superficially in the introductory course. More attention is given to such subjects as learning, perception, emotions, etc. Required of prospective majors. (Offered in alternate years.)

Prerequisite: Psy. 100.

PSY. 203-204. EXPERIMENTAL PSYCHOLOGY—Three credits each semester

THE STAFF

A lecture and laboratory course designed to familiarize the student with the methods and the results of modern psychological research. The course includes a study of several of the famous experiments in the field of psychology. Also included is practice with the older as well as the more recent methods of experimental research. (Offered in alternate years.)

Prerequisite: Psy. 100.

Psy. 206. Applied Psychology—Three credits

THE STAFF

A survey of significant contributions to individual differences. Methods of evaluating and measuring these differences; their significance to the individual, the home, the school, and to vocational and community life.

Prerequisite: Psy. 100.

Psy. 207. CHILD Psychology—Three credits

THE STAFF

The course is designed to present a general view of the development and growth of the child. It is concerned primarily with the heredity and native equipment of the child and the manner in which this equipment is modified during childhood. Emotional development, language development, and social relations are considered.

Prerequisite: Psy. 100.

THE STAFF

PSY. 208. HUMAN BEHAVIOR—Three credits Human adjustment and maladjustment to life situations with emphasis on motivation, emotional control, personality formation, and the treatment of the lesser personality disorders.

Prerequisite: Psy. 100.

PSY. 212. HISTORY AND DEVELOPMENT OF PSYCHOMETRIC METHODS Three credits

A study of the theory of psychological testing. The principles underlying test selection, standardization, and evaluation are stressed. This course is a prerequisite for the following courses: Psy. 251, 252, and 255. Prerequisite: Psy. 100.

PSY. 251. INDUSTRIAL PSYCHOLOGY—Three credits

An introduction to the industrial application of psychology in the selection, classification, and training of employees; reduction of monotony and fatigue; the maladjusted worker; accident prevention; work conditions; and employee motivation and morale.

Prerequisite: Psy. 212.

THE STAFF PSY. 254. SYSTEMATIC PSYCHOLOGY—Three credits

A historical introduction to the conflicting points of view in recent psychology, followed by a study of the theories of such leaders in the field as Watson, Freud, McDougall, Thorndike, and Kohler. (Offered in alternate years.)

Prerequisite: Psy. 100 and one other courses in psychology.

PSY. 255. CLINICAL PSYCHOLOGY—Three credits

A survey of the clinical method in psychology with consideration of diagnostic and treatment techniques and the role of the professional psychologist in various settings. (Offered in alternate years.)

Prerequisite: Psy. 212 and one other course in psychology.

THE STAFF PSY. 257. ARNORMAL PSYCHOLOGY—Three credits

A general survey of the principal forms of mental abnormalities, with emphasis on causes, symptoms, course, and treatment. (Offered in alter-

Prerequisite: Psy. 207, 208 and permission of head of department.

PSY. 271-272. RESEARCH IN PSYCHOLOGY—Three credits THE STAFF An opportunity to conduct individual research projects under super-

vision. (Open to psychology majors only.) Prerequisite: permission of head of department.

RETAILING

Professor Rosenberg, chairman; Assistant Professor Christopher; Instructors Green, Morgan, Rubin, Stein.

A major in Retailing consists of 24 credits in retailing courses which include Ret. 101, 102, 207, 212, 214, 224.

RET. 101. PRINCIPLES OF RETAILING—Three credits

Policies and practices of the various retail institutions; types of retail institutions and types of merchandise handled; store location and layout; sales and service policies; employment, training, and welfare.

RET. 102. RETAIL STORE ORGANIZATION AND MANAGEMENT Three credits

Basic principles of successful retail store organization; study of the organizational structure of department stores; organization and functions of operating divisions; planned observation in employment, training, receiving, marking, delivery, wrapping, phone, mail order and adjustment departments. Field trips to retail stores.

MR. O'TOOLE RET. 201. COLOR AND DESIGN—Two credits

Ages of civilization and development of industrial age. Periods, style symbols, classicism, modern design. Components of composition; problems of function; proportion, balance, rhythm, color, light, texture. Fundamentals of interior decoration. Color and design in apparel. Studio, four hours each week.

RET. 205. RETAIL ADVERTISING AND SALES PROMOTION—Three credits

Study of basic principles of retail advertising and sales promotion. Organization and procedure of advertising department in retail stores; types of retail advertising; copy, headline, layout, type, advertising media, display; research.

RET. 207. RETAIL SELLING—Three credits

Fundamentals of retail selling; constructive attitude; knowledge of merchandise and the store; knowledge of the customer; selling techniques; building permanent business. Laboratory observation; actual selling in retail stores.

RET. 210. ELEMENTS OF MERCHANDISE—Three credits Mr. MORGAN Merchandise information; fibers and fabrics; history, rise, production,

manufacturing process from fiber to finished fabric; textile terminology, trade names. Identification, testing of fibers; care of fabrics; new developments.

Study of natural, industrial, and synthetic materials; properties, technologies, imitations; plastics, woods, wood construction, leather and leather goods, glass, pottery, china, silverware.

RET. 212. PURCHASES AND MERCHANDISING CONTROL—Three credits

Importance of purchases; principles and methods; forms of procedure, handling, storing, and warehousing methods; inventories and their control; types and limitation of stock control systems; application of systems.

Prerequisite: approval of instructor.

RET. 214. RETAIL BUYING—Three credits

THE STAFF

Buying as a career; types of organizations; functional bureaus as aids in buying; determination of what to buy; analysis of customer demand; where to buy; when and how to buy; brands and labeling; trade relations. Laboratory work required.

Prerequisite: approval of instructor.

RET. 217. FUNDAMENTALS OF FASHION—Three credits Fashion as a social force. How the fashion world works. Fashions in Paris, England, United States. Apparel, millinery, shoes, accessories;

Prerequisite: approval of instructor.

fashion shows.

RET. 219. RETAIL PERSONAL RELATIONS—Three credits THE STAFF

Retail personnel policies; job analysis; employment procedure; wage plans and incentives; employee training; employee evaluation; employee stabilization; employee participation; legislation affecting labor problems in retailing.

RET. 220. ORGANIZATION AND OPERATION OF THE SMALL STORE Two credits THE STAFF

Importance of small business; factors in business success; justification of new businesses; financing; location; policies; management; employee relations; sales promotion; turnover; profit; records; small business and the future.

RET. 224. RECENT TRENDS AND DEVELOPMENTS IN RETAILING THE STAFF

Review of fundamentals; trends in retailing; study of developments in cooperation with retail store executives. Laboratory work; reports on trends and developments.

SECRETARIAL STUDIES

Professor Rosenberg, chairman; Assistant Professor Verry; Instructors Hoover, Jenkins.

Students majoring in secretarial studies are required to take a sequence of twenty-four credits outside the Department of Secretarial Studies. It is advisable to decide upon this sequence not later than the sophomore year. The remainder of the electives may be divided between commerce and finance and liberal arts courses according to the interests and vocational objectives of each student.

S.S. 99. Personal-Use Typewriting—No Credit

Development of skill in typewriting; development of an understanding of good style and form in typewritten material; application of typing skill to the writing of business letters and term papers. Laboratory fee required. Four hours a week. Fee: \$10.

S.S. 101-102. SHORTHAND AND TYPEWRITING

Two credits shorthand, two credits typewriting each semester MR. VERRY, MR. HOOVER

Development of reading and writing skill in Gregg Shorthand, Simplified; development of skill in typewriting, and ability to apply skill to typical office problems; training in transcription from shorthand notes, during second semester, with emphasis on punctuation and spelling. Laboratory fee required. Eight hours each week. Two hours lecture, six hours laboratory. Fee: \$10.

S.S. 105. SHORTHAND¹—Two credits

MR. JENKINS

Development of reading and writing skill in basic Gregg Shorthand, Simplified, and review of simple English essentials that are necessary in transcription; completion of basic theory. Four hours each week. One hour lecture, three hours laboratory.

S.S. 106. SHORTHAND¹—Two credits

MR. JENKINS

Review of Gregg Shorthand, Simplified, with emphasis on fluency and legibility; development of speed and accuracy in the application of shorthand; pre-transcription training; development of desirable traits and work habits. Four hours each week. One hour lecture, three hours laboratory.

Prerequisite: S.S. 105 or equivalent.

S.S. 107-108. Typewriting¹—Two credits each semester Mr. Jenkins

Development of skill in typewriting; application of skill to letter writing, envelopes and cards, tabulation problems, copying from rough draft, manuscript writing; study of form and style; transcription from

¹ Credit will be given only to students who have not previously taken S.S. 101-102.

shorthand notes during second semester. Laboratory fee required. Four hours laboratory each week. Fee: \$10 each course.

S.S. 109-110. ADVANCED STENOGRAPHY

Three credits shorthand, one credit typewriting each semester

Review of Gregg Shorthand, Simplified, with emphasis on fluency and legibility; development of speed and accuracy in shorthand, typewriting, and transcription; application of typing skill to letter writing, tabulation, rough drafts, commercial forms; preparation of telegrams, manuscripts and term papers, stencils and Ditto master copies; training in punctuation, spelling, and other English problems; study of correct form and style; development of desirable work habits, attitudes, and traits. Laboratory fee required. Eight hours each week. Two hours lecture, six hours laboratory. Fee: \$10 each course.

Prerequisite: S.S. 102.

S.S. 113-114. ADVANCED SHORTHAND²—Two credits each semester

Review of Gregg Shorthand, Simplified, with emphasis on fluency and legibility; development of speed and accuracy in the application of shorthand, typewriting, and English; development of desirable work habits and attitudes. One hour lecture, three hours laboratory.

Prerequisite: S.S. 106.

S.S. 115. ADVANCED TYPEWRITING²—Two credits

Development of greater speed and accuracy in typewriting; review of form and style in typewritten material; application of typing skill to letter writing, tabulation, rough drafts, commercial forms; preparation of telegrams, manuscripts and term papers, stencils and Ditto master copies; transcription from shorthand notes; development of desirable work habits and attitudes. Laboratory fee required. Four hours laboratory each week. Fee: \$10.

Prerequisite: S.S. 108.

S.S. 120. SECRETARIAL ACCOUNTING—Three credits MR. HOOVER

Fundamental principles of accounting and their application to the keeping of books and records in business and professional offices. S.S. 120 may not be used for credit toward the accounting requirement for Business Education majors.

S.S. 200. MEDICAL STENOGRAPHY—Three credits

Study of accepted procedures in typical medical offices, clinics, and hospitals; application of stenographic skills to medical dictation; tran-

scription of case histories taken from hospital records; specialized dictation in several branches of medicine. Five hours each week. One hour lecture, four hours laboratory.

Prerequisite: approval of instructor.

S.S. 203. Speech Reporting—Two credits Mr. Verry, Mr. Hoover Speed dictation for speech reporting. Four hours each week.

Prerequisite: satisfactory background in English; ability to take dictation at 100 words a minute and to transcribe notes rapidly and accurately. One hour lecture, three hours laboratory.

Prerequisite: approval of instructor.

S.S. 205. OFFICE PROCEDURES AND OFFICE MACHINES—Four credits MR. VERRY, MR. HOOVER

Application of skills to integrated office problems; procedures in typical business and professional offices; study of personal and technical requirements for secretaries; understanding and use of various commercial forms; operation and use of office machines and equipment; personal and vocational guidance. Laboratory fee required. Eight hours each week. Two hours lecture, six hours laboratory. Fee: \$10.

Prerequisite: approval of instructor.

S.S. 243. Business Education and Methods of Intruction in SECRETARIAL STUDIES—Three credits

Principles of business education; business curricula in secondary schools; psychology of skill-building as applied to shorthand and typewriting; techniques of instruction in typewriting and shorthand, standards, tests, and measurement in the secretarial studies; content, objectives, and methods of instruction in office practice.

SOCIOLOGY AND ANTHROPOLOGY

Professor Symmons, chairman; Instructors Bloomburg, L. Mui, Yarnal.

A major in sociology consists of twenty-four hours. Although Soc. 100 is prerequisite to all the courses in sociology, it is not accepted toward a major in sociology. P.S. 204 and Phil. 206 will be accepted toward the

Students who intend to major in sociology are requested to plan their work in the Department in consultation with the Chairman. A major in sociology should ordinarily include the following three courses: Soc. 255, 265, and 280. With the approval of the Department Chairman, however, other courses may in some instances be substituted.

The courses given by the Department of Sociology and Anthropology are divided into five groups:

² Credit will be given only to students who have not previously taken S.S. 109-110.

I Sociological Theory

Soc. 100. Introduction to Sociology—Three credits The Staff A systematic view of sociology, providing essentials for an intelligent approach to questions about man in society and for specialized study of sociological problems.

Soc. 280. HISTORY OF SOCIOLOGICAL THEORIES—Three credits

MR. SYMMONS

A historical study of the development of sociology as a science, traced through its principal leaders. The aim of the course is to provide the student majoring in sociology, or in one of the related fields, with a historical background necessary for understanding of the current trends in sociology as well as for clarification of its distinct subject matter, problems, and methods.

Prerequisite: Soc. 100 and two other courses in sociology or permission of the instructor.

II Social Organization

Soc. 200. Marriage and the Family—Three credits Mr. Symmons The development of marriage and the family in ethnological and historical perspective. Family disorganization and problems of adjustment to modern conditions. Practical aspects of marriage. Factors responsible for marital success or failure.

Prerequisite: Soc. 100 or permission of the instructor.

Soc. 204. Educational Sociology—Three credits MR. SYMMONS

A study of the structure and function of formal education as a key institution in our society. Interrelationships between education and other basic institutions—family, church, economics, and government. The pattern of human relations within the school and the relation between the school and community. The interaction of the formal and informal educational agencies. Contemporary educational problems and their sociological backgrounds.

Prerequisite: Soc. 100.

Soc. 212. Sociology of Industry—Three credits THE STAFF

An analysis of the formal and informal social organization of the work plant and of the relationship between modern industrial organization and the community.

Prerequisite: Soc. 100 and Ec. 100, or permission of the instructor.

III Social Change and Social Problems

Soc. 215. Urban Sociology—Three credits The development of modern cities; effects of urban life upon social organization and personality patterns; major social problems of the cities. Prerequisite: Soc. 100.

Soc. 230. Social Problems—Three credits MR. SYMMONS A survey of most pressing contemporary social problems and an examination of current theories of social disorganization.

Prerequisite: Soc. 100.

Soc. 235. CRIMINOLOGY—Three credits

THE STAFF

Crime and the criminal are considered with reference to individual and environmental factors in crime causation. An analysis of theories of crime and punishment; statistics on crime; police methods; prisons; scientific objectives of the new penology.

Prerequisite: Soc. 230, or permission of the instructor.

Soc. 245. FIELDS OF SOCIAL WORK—Three credits MR. YARNAL A survey of the main problems of social work and of agencies and methods that have developed to cope with them. The nature and requirements of the different fields of social work. Prerequisite: Soc. 100 and Psy. 100.

IV Social Psychology

Soc. 255. Social Psychology—Three credits MR. SYMMONS A general survey of the field of social psychology. Social factors in human nature; psychology of individual differences; social interaction; collective behavior, psychology of personality; social pathology.

Prerequisite: Soc. 100 and Psy. 100.

Soc. 260. Culture and Personality—Three credits Mr. Symmons A comparative study of the development and functioning of human personality in various cultures from the point of view of social psychology and social anthropology.

Prerequisite: Soc. 255, or Soc. 265, or permission of the instructor.

V Anthropology

Soc. 265. General Anthropology—Three credits Mr. Symmons A general survey of the field of anthropology stressing its cultural aspects. Fossil man and prehistoric cultures; modern races and the problem of their classification; nature, characteristics and elements of culture.

Prerequisite: Soc. 100.

Soc. 270. Peoples of the World—Three credits MR. SYMMONS

A rapid survey of the peoples and cultures of the world in their historical relations. Distribution of races, languages, nationalities and cultures and ideological and socio-economic factors responsible for contemporary social unrest in various parts of the world, particularly among the native peoples of Asia and Africa.

Prerequisite: Soc. 100.

SAFETY EDUCATION

Instructor Hilbert.

Courses in Safety Education are offered for teachers desirous of obtaining certification in Safety Education. Undergraduates will receive no credit for these courses unless they receive approval from the Head of the Education Department and the Dean of Men.

SAFETY 1. DRIVER EDUCATION AND TRAFFIC SAFETY IN THE SECOND-ARY SCHOOLS—Three credits

Driver and pedestrian responsibilities, sound driving practices; society's responsibilities; what makes the automobile go; driver and pedestrian attitudes; city driving; open-road driving; adjusting driving to conditions; road training; bicycle safety; practice driving; practice teaching of driving school patrols; school bus transportation; behind the wheel instruction emphasized.

SAFETY 2. MATERIAL AND METHODS OF TEACHING SAFETY IN THE ELEMENTARY SCHOOLS—Three credits

The approach to safety instruction in the elementary schools; integration of safety material with the social studies program; techniques of instruction; consideration of physical arrangements in school buildings and programs from the standpoint of pupil safety; materials which can be obtained or created for safety instruction with young children.

SAFETY 3. MATERIAL AND METHODS OF TEACHING SAFETY IN THE SECONDARY SCHOOLS—Three credits

Inspection and testing programs in the secondary schools; broadening of techniques of instruction; practical means of developing the safety attitude; a survey of current materials for use in safety programs. The course will feature a study of testing devices and standard practices in their use, and classroom demonstrations.

SAFETY 4. ORGANIZATION AND ADMINISTRATION IN SAFETY EDU-CATION—Three credits

A discussion of the problems, procedures, principles and techniques involved in the organization, administration and supervision of accident prevention programs. Designed for college instructors, school administrators, school safety directors, and others interested in, and responsible for, organizing and conducting school and community safety programs.

SAFETY 5. THE PSYCHOLOGY OF ACCIDENT PREVENTION—Three credits

Treats one of the major approaches to the solution of the safety problem by means of developing better understanding of human nature and methods of dealing with it. It may be assumed that man is interested in his own bodily safety; but it must not be assumed that that interest is always active. Ways will be discussed to arouse and develop the interest that lies dormant; or is covered up by bad habits of attention, emotion and maladjustment to life; or is not sufficient to safeguard the individual because he is of low-grade intelligence, lacks knowledge, or has not been properly trained.

SAFETY 6. VISUAL AND OTHER AIDS IN SAFETY EDUCATION— Three credits

Discussion and demonstration of practical values in visual and other sensory aids; standards for appraising and their relationship to the curriculum; guiding principles and techniques; minimum equipment and sources; housing and distribution.

The Evening Division

To meet the needs of ambitious men and women who, while employed, desire the help which may come from college instruction, Wilkes College has organized the Evening Division.

A wide program of courses is offered each semester from which selections may be made according to individual tastes and requirements.

The courses offered by the Evening Division are designed for their special value to the following groups:

- 1. Those employed in business or governmental organizations who desire and need training to fit them for advancement.
- 2. Men and women who wish to prepare themselves by study and training for work in a new field.
- 3. Teachers, nurses and those in other professions who desire additional training in one or more subjects in order to meet the professional requirements demanded of them.
- 4. Business executives who are interested in advanced problems and discussion courses offered in various business fields.
- 5. Those who wish to prepare for the profession of accounting and aspire through the study of accounting courses to qualify for certification by the Commonwealth of Pennsylvania as Certified Public Accountants.
- 6. Individuals wishing to broaden their knowledge or to increase their skill in certain fields for their personal satisfaction and improvement.

All students who register for evening courses are classed as special students. Upon such a student's completion of thirty semester hours, his high school transcript and his record as a special student will be evaluated at his request, and he may then be registered as a degree candidate. No student, however, may expect to count toward an undergraduate degree more than thirty credits earned as a special student.

Students who do not seek a degree are admitted to all classes which they are qualified to take by reason of their maturity, previous education, and experience. Although it is advisable, when possible, for each student registering to have first completed his high school course, the lack of part or all high school training does not debar an applicant from the advantages of the practical training of the College, provided he is qualified to follow special courses of instruction in which he wishes to register.

No student who has been advised to withdraw from the College's day school program for academic failure will be permitted to register for evening school, nor will such student receive credit for subsequent work done in evening school. Any exception to this regulation must be approved by the Deans.

Whenever a student's record of achievement indicates that he is not obtaining sufficient benefit to justify continued study, the College may request that he withdraw from the Evening Division.

MANAGEMENT TRAINING PROGRAM

To fill a need in the community, Wilkes College offers a program for the development of managerial skills among foremen and others who aspire to become part of the management group.

The needs of each company are analyzed and, in consultation with officials, foremen and others in the company, a program is arranged to meet the general and specific requirements of the personnel in the company. The program is arranged in periods of 16 weeks in which the participants meet once a week at the College during the day or evening for a two hour session.

Special Community Lecture Series

As a community college, Wilkes feels obligated to provide opportunities for adults to continue their education. It therefore offers, in the Evening Division, an introductory program in adult education, from which it believes positive good will result.

Community members who register for one of the lecture courses in the series meet one evening a week throughout the ten or fifteen weeks the course is in session. They do not receive regular college credit.

Given each semester, the lectures cost considerably less than the regular undergraduate courses at the College.

The present program includes series in current events and art for business and professional persons.

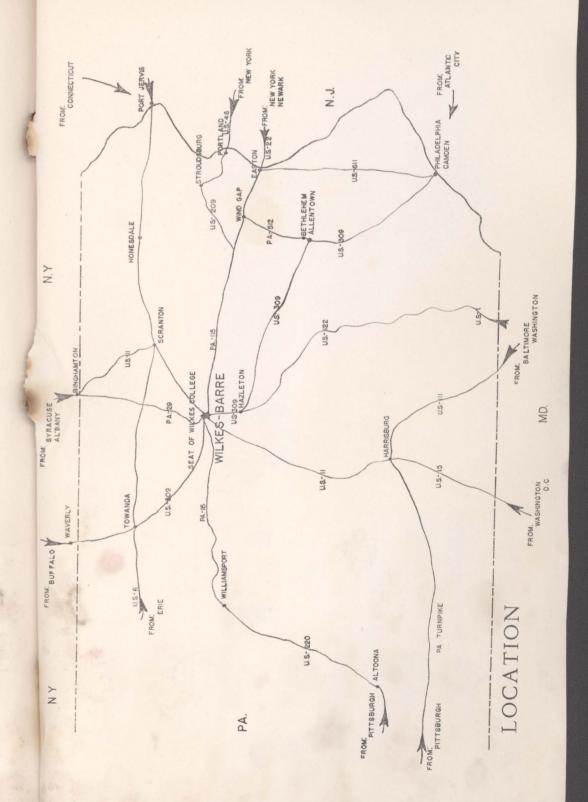
Further information concerning the program may be secured from the Director of Admissions.

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