

# WILKES COLLEGE Bulletin

1960 - 1961



WILKES-BARRE

PENNSYLVANIA

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# WILKES COLLEGE Bulletin

1960-1961

FALL AND SPRING SEMESTERS—1960-61

Vol. IX

## College Calendar

#### SUMMER SESSION — 1960

Wednesday, June 15 to Friday, June 17 Registration

Monday, June 20 Classes begin

Monday, July 4
Independence Day

Friday, August 12 Summer School ends

#### FIRST SEMESTER — 1960

Monday, September 12 to Friday, September 16
Orientation for Freshmen

Wednesday, September 14
Registration for Upperclassmen

Thursday, September 15 Registration for Freshmen

Monday, September 19 Classes begin at 8:00 a.m.

Saturday, October 15 Homecoming, Wilkes vs. Ursinus

Saturday, October 29 Final date to remove incompletes

Wednesday, November 2 Mid-semester reports

Monday, November 7 to Friday, November 11 Registration

Wednesday, November 23 Thanksgiving recess begins at noon

Monday, November 28

Thanksgiving recess ends at 8:00 a.m.

Saturday, December 17 Christmas recess begins at noon

Tuesday, January 3, 1961 Christmas recess ends at 8:00 a.m.

Saturday, January 14 Classes end

Monday, January 16 to Tuesday, January 24 Examination period

## College Calendar

#### SECOND SEMESTER - 1961

Friday, January 27
All-College Registration

Monday, January 30 Classes begin at 8:00 a.m.

Saturday, March 11 Final date to remove incompletes

Wednesday, March 15
Mid-semester reports

Monday, March 20 to Friday, March 24 Registration

Tuesday, March 28

Easter recess begins at 5:00 p.m.

Tuesday, April 4 Easter recess ends at 8:00 a.m.

Sunday, May 7
Parents Day

Saturday, May 20 Classes end

Monday, May 22 to Wednesday, May 31 Examination period

Saturday, June 3
Alumni Day

Sunday, June 4
Baccalaureate

Monday, June 5 Commencement

#### SUMMER SESSION — 1961

Wednesday, June 14 to Friday, June 16
Registration

Monday, June 19 Classes begin

Tuesday, July 4 Independence Day

Friday, August 11
Summer School ends

Higher education is the area wherein men of conviction are brought together in their search for knowledge.

In college the teacher works with the student, challenging him to extend the limits of his mind. He encourages him to think courageously and truthfully and to create with all his resources so that he may act with independent judgment.

In a college community freedom of inquiry and responsibility are essential.

In the world community the right of the individual to differ safeguards the freedom of

Education at Wilkes

As student and teacher engage in the experience of creative thinking, the heritage of learning becomes the responsibility of everyone.

Educated Man

An

seeks truth, for without truth there can be no understanding;

possesses vision, for he knows that vision precedes all great attainments;

is aware of the diversity of ideas and beliefs that exist among men;

has faith in the power of ideals to shape the lives of men;

knows that man's progress requires intellectual vigor, moral courage, and physical endurance;

cultivates inner resources and spiritual strength, for they enrich his daily living and sustain him in times of crisis;

has ethical standards by which he lives;

respects the religious convictions of all men;

participates constructively in the social, economic, and political life of the community;

communicates ideas in a manner that assures understanding, for understanding unites men in their search for truth.

> Formulated and adopted by the Faculty as a guide to learning.

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# Policies and Objectives of the College

Admissions

Expenses

Financial Assistance

Registration

# Wilkes College

Wilkes College had its beginnings in 1933 when Bucknell University, responding to a request of community leaders, established its Junior College in Wilkes-Barre. On June 26, 1947, Bucknell University Junior College came to an end and Wilkes College received its charter as a four-year liberal arts college. From its inception the college has been dedicated to twin goals—a sound and stimulating intellectual experience for students and a program of service to the community.

It was inevitable that the new college should be non-sectarian, for its purpose was to serve all students equally and its supporters wished the College to integrate itself with all constructive efforts in the community. It was believed that these ends could be served best by an independent college that was interdenominational in its influence and non-denominational in its control.

The original concept of community services has been strengthened with the passing of the years and with growing experience. It has been clearly demonstrated that the students, the College, and the community all benefit from cooperative effort. This cooperative relationship, with its emphasis on trained intelligence and extended planning, has resulted in cooperative action.

Because of their interest and faith, friends have multiplied their support during the past decades and the campus has expanded steadily so that it now includes most of the properties facing the River Common. Fortunately, a growing endowment has kept pace with the expansion of the campus.

Years have passed since Bucknell gave the control of the Junior College to a local Board of Trustees, guided by the late Gilbert S. McClintock, and events of these years demonstrate the wisdom of their decision. With responsibility came a pressing desire to strengthen the work of the Faculty, united in their faith that the intellectual and spiritual resources of the student are vigorous where the creative mind is free.

## Admissions

True education demands a love of learning and a spirit of sacrifice and service. Education is not a right or privilege but an opportunity that carries with it obligations prescribed by the College and responsibilities shared with the student.

This concept has guided the faculty and trustees in developing the philosophy and procedures of the Admissions Committee, making it possible for students of ability, determination, and soundness of character to study at Wilkes.

Here the students will find an atmosphere of competitive learning in the world of ideas. His desire to undertake study at Wilkes places him among the ready men for whom education is an experience in excellence. He will be charged with the responsibility for fulfilling that trust.

The careful selection of able and committed students is deemed essential to the attainment of high standards and warm personal relationships between students and faculty.

## Admission Requirements

HIGH SCHOOL RECORD

Candidates applying for admission to Wilkes should be high school graduates and should offer at least fifteen units of work representing the equivalent of the usual four-year high school or preparatory school course. For entrance into certain departments, specific courses in high school are necessary. An example would be four years of Mathematics for those interested in studying the physical sciences, engineering, or mathematics.

#### ENTRANCE EXAMINATIONS

All candidates for admission to the freshman class will be required to take entrance examinations to determine the applicant's readiness for college work. The Admissions Committee considers these test results in relation to the applicant's high

school transcript and the record of performance during the high school years.

#### ADMISSIONS COMMITTEE

The Admissions Committee is comprised of the Director of Admissions, Dean of Men, Dean of Women, and three faculty members. This committee acts upon special cases referred to it by the Director of Admissions.

### **Admissions Procedure**

#### APPLICATIONS FOR ADMISSION

To assist students seeking admission, the College has adopted procedures designed to simplify admissions.

Applications for admission may be obtained from the Director of Admissions and should be returned to him with a \$5.00 registration fee. Upon receipt of the application, the Director of Admissions will write to the student concerning his high school transcript and recommendations.

#### ADMISSION TESTS

Admission tests are given in Stark Hall at 9:00 A.M. on two Saturdays of each month from October through May. Information on the testing dates may be obtained from the Director of Admissions.

Students may substitute College Board Examinations when it is more convenient to take these tests than to make a special trip to Wilkes-Barre.

#### PERSONAL INTERVIEWS

Although a personal interview with each student is not required, the Admissions Officer reserves the right to request an interview with a candidate for admission. Students and their families are cordially invited to visit the College at their convenience. It is advisable to write for an appointment so that the Deans may arrange to meet with them.

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## ACCEPTANCE OF ADMISSION AND DEPOSIT

The Admissions Committee meets each week and acts upon all completed applications. Notification of admission is sent immediately and students are required to forward a \$50.00 tuition deposit by June 1 in order to guarantee their entry into the College. This deposit will be applied toward the tuition charges for the first semester.

The College accepts a limited number of applications for the February class. Procedures are similar to those followed in the fall semester.

#### TRANSFER STUDENTS

Candidates from other institutions wishing to enter with advanced standing shall follow the regular procedure for admission. The student should request the college or university he is attending to forward to Wilkes a transcript and an official statement of his 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. Acceptable credits will be placed on the Wilkes record of the student following a final evaluation.

Faculty policy prohibits the Admissions Committee from considering for admission any student who has been placed on academic probation or who has been dropped from any other college or university.

## ADVANCED COURSE STANDING

Freshmen who are equipped to enter advanced courses in college may enroll in such courses upon passing a placement examination, or upon approval by the department or departments concerned. Although the student 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.

# Expenses

#### TUITION AND FEES

The flat tuition rate adopted by the College for a student carrying the normal load for his course is \$325.00 per semester. A student who registers for fewer than fifteen hours of work will pay either \$22.00 for each semester hour or the regular tuition fee, whichever amount is lower. A student activities fee of \$22.00 will be charged to those students taking fewer than 15 or more than 9 semester hours or to any special student wishing to participate in activities. A student who elects a heavier schedule than is normal for his course will be charged \$22.00 for each additional hour of credit beyond the normal load.

The cost of individual instruction in music is \$50.00 for a series of fifteen half-hour lessons. For a fifteen-week series of one-hour lessons on string and wind instruments in groups consisting of no fewer than three and of no more than five students the fee will be \$44.00.

In the sciences and the secretarial studies nominal fees are charged for laboratory work. There are no fees for library or the Town and Gown concert series.

#### EVENING SCHOOL

Students registered in the Evening School will be charged \$22.00 per semester hour. A fee of \$22.00 is charged for those wishing to participate in student activities. Students may arrange with the Finance Office for deferred payments. A service fee of \$1.00 for each course is charged. Further information regarding the content of the courses, requirements for undergraduate and graduate degrees, and requirements for teacher certification may be secured from the Office of Admissions.

#### SUMMER SCHOOL

Students registering for courses in the eight-week Summer School session will be charged \$22.00 per semester hour of study.

#### CHEMISTRY BREAKAGE

Students taking chemistry laboratory courses are required to deposit \$10.00 to cover possible charges for broken, lost, or damaged equipment. The unexpended balance of this fee is refundable.

#### INSURANCE COVERAGE

The College makes available both accident and accident and health insurance to students through the American Casualty Company, Reading, Pennsylvania. Each student will be required to purchase an accident policy at a cost of \$8.00, and dormitory students also are required to accept a health insurance policy costing \$17.00. This health insurance is also available to commuting students but is optional with them. Both policies provide protection for the full College term and premiums are payable in full with the first semester charges. There are four fully accredited hospitals in the vicinity of the campus, and a college physician is available for emergency treatment.

#### PAYMENTS

Payments or plans for financing must be completed with the Finance Office in Parrish Hall before registration.

#### DEFERRED PAYMENTS

Students wishing to defer their payments shall consult and complete arrangements with the Comptroller prior to registration. The local banks now have excellent plans for financing a college education, but the College will arrange for deferred payments when necessary. Under the College plan \$100.00 will be paid prior to registration and supplementary payments are to be made as follows:

One-fourth on or about October 15 or February 15 One-fourth on or about November 15 or March 15 One-fourth on or about December 15 or April 15 One-fourth on or about January 15 or May 15

A service charge of \$5.00 per term will be added for deferred payments.

#### REFUNDS

Students in good standing who withdraw from the College will receive a refund of tuition under the following conditions:

During the first six weeks of a term one-half of the tuition will be refunded upon request if the withdrawal is made for adequate and satisfactory reasons. After the first six weeks no refunds are allowed and the student is obligated for the full costs for the term.

Refund of dormitory charges will not be allowed except under exceptional conditions.

No student who is suspended or expelled shall be entitled to any refunds.

## Living Quarters and Board

#### **DORMITORIES**

Residence for boarding students is provided in a number of large mansions that have been given to, or purchased by, the College in recent years. At present there are six men's and six women's dormitories, each of which accommodates from eighteen to twenty-three students and a faculty proctor. Every effort is made to maintain a homelike atmosphere. Students and their families are invited to inspect these homes. Each room includes a bureau, desk, chair, and a bed. Students will supply their own blankets, towels, and linen.

All out-of-town students must reside in the College dormitories on campus. A deposit of \$50.00 is required to reserve a room. The charge for room and board is \$375.00 per student per semester. All dormitory students must purchase accident and health and accident insurance at a cost of \$25.00.

Information regarding dormitories can be obtained from the Office of Admissions.

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#### ESTIMATE OF EXPENSES

Items of personal expense vary according to each student's habits and circumstances. Below is an estimate of certain basic expenses for the college year:

#### Tuition and General Expenses

	Commuting Students	Dormitory Students
Tuition	. \$650	\$ 650
Room and Board	dollar de la companya	750
Books, Supplies, Fees*	. 100	100
Insurance		25
Total	\$758	\$1525

Books, stationery, and supplies may be purchased at the College Book Store, Harding House. The book store is operated on a cash basis.

#### COLLEGE COMMONS

The Commons serves as a dining hall for the resident students. It also provides cafeteria service for commuting students.

## Financial Assistance

To provide assistance for those who need financial help, the College receives substantial gifts from friends. These gifts provide scholarship aid to those who are already making every effort to help themselves.

In accepting any form of aid from the College the student accepts an obligation—which is also the obligation of every other conscientious student—to:

- 1. Maintain a good scholastic record.
- 2. Exert a constructive influence in the College and the community.
  - 3. Participate in a campus activity of his own choice.

In planning to meet any difference between his own resources and the cost of education the student should consider a combination of work, loans, and scholarships.

## Scholarships

Scholarships and grants are available to students with good records of achievement and performance in high school or college who cannot fully finance the cost of their college education and who can demonstrate seriousness of purpose and effort.

A few honor scholarships are awarded without regard to need to students of outstanding achievement in appreciation of their contribution to the intellectual life of the group. The amount of each grant will be determined by the Committee on Scholarships.

#### SCHOLARSHIP REQUIREMENTS

- 1. Students must be admitted to the College before their applications for scholarships will be considered.
- 2. No scholarship will be granted until the student has made every reasonable effort to finance as large a portion as possible of the costs of this education.

<sup>\*</sup> The amount is higher or lower depending upon the student's curriculum.

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- 3. Every applicant for scholarship aid shall submit confidential information pertaining to his financial needs and his record of achievement.
- 4. No student may simultaneously hold more than one scholarship.
- 5. Scholarships will be forfeited if the student, at any time, carries fewer hours than are normal for the course.
- 6. No scholarship is awarded for more than one year, but scholarships will be renewed upon request, provided this request is supported by a good academic record, by evidence of continued need, and by constructive participation in the program of the College.
- 7. The amount of the grant is confidential, and any breach of this confidence shall terminate the scholarship.

#### INSTRUCTIONS TO THE APPLICANT

- 1. To establish eligibility for a scholarship, the student must first apply for admission to the College and must be accepted. Application for admission should be made prior to March 1.
- 2. Students requiring aid shall indicate their need on the application for admission to the College.
- 3. Students indicating such need shall receive an application for scholarship aid with their notification of admission to the College. This completed application should be submitted to the Director of Admissions before April 1.
- 4. The applicant is responsible for the submission of personal references from three teachers or other members of the community. These references should be mailed directly to the Director of Admissions prior to April 1.

#### Loans

The College participates in the National Defense Student Loan Program. In order to be eligible to receive these federal loans the applicant must be a full-time student. Application forms may be received at the College. The federal fund is of particular advantage to prospective teachers, as one-half the sum to be repaid annually will be cancelled for each year of teaching.

The College also administers a rotating fund for student loans. In accepting these rotating funds the student must recognize an obligation for annual repayment to the College.

#### SPECIAL LOAN FUND

The Florence and Joseph A. Goldman Loan Fund has been created by the donors to assist Juniors and Seniors whose education may be interrupted by unexpected difficulties. The loan bears no interest and is to be repaid by the student at the earliest practical time so that other students may also receive needed assistance from this rotating loan fund.

## **Employment**

#### PART-TIME EMPLOYMENT

College makes strict demands on a student's time. The student who finds it necessary to seek full-time employment during a semester is advised to work a year and then apply for admission.

The College cautions the student to limit off-campus work, especially during the freshman year, when working may result in academic failure.

However, part-time jobs in offices, stores, and industry are available for students wishing to earn part of their expenses. For such jobs the student shall register with the College Placement Office.

#### CAMPUS EMPLOYMENT

The College also offers part-time employment at standard rates in the dining room, offices, laboratories, library, or on the maintenance staff. The holder of these jobs will meet all obligations of his assignments or forfeit all help from the College.

# Founders of Scholarships

Each year some 700 friends contribute to the scholarship fund of the College on an annual basis. Other friends have created scholarships which bear the names of the donors or of persons whom they have memorialized by means of a scholarship.

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 to be used in assisting students of outstanding scholastic ability who otherwise 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 SCHOLAR-SHIP 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 gives an annual scholar-ship to assist students of high scholastic ability.

THE JOHN LLOYD EVANS MEMORIAL scholarship was created by Rulison Evans in memory of his father, a life-long lover of music, conductor of the Dr. Mason Glee Society, conductor of The Sheldon Choral Society and the Wilkes-Barre Mixed Choral Society. The scholarship of \$300 will be awarded to a senior in music or music education who has demonstrated outstanding ability in his chosen field of study.

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.

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THE NATIONAL COUNCIL OF JEWISH WOMEN—THE WILKES-BARRE SECTION—gives a scholarship annually to a young woman in the field of Education or Sociology. This young woman—a junior or senior—must be a resident of Wyoming Valley.

#### COST OF EDUCATION SCHOLARSHIPS

A number of local firms make annual gifts to the scholarship fund so that the College may provide needed assistance to able and ambitious students. These grants amount to one-half tuition plus a small amount to cover a portion of the difference between the tuition charges and the cost of education.

In announcing the donors of these scholarships, the College also wishes to acknowledge its appreciation to the donors.

George W. Guckelberger Frank E. Baldwin Co. Barre Footwear Co. Kanaar Corp. Lester Pontiac Central Slipper Co., Inc. Custom Products Melody Shoe Corp. Eastern Pennsylvania Miners National Bank Supply Co. Frank E. Parkhurst, Inc. First-Second National Bank & Penna. Power & Light Co. Trust Co. of Wilkes-Barre Pioneer Manufacturing Co. Fowler, Dick and Walker Planters Nut & Chocolate Co. Fowler & Williams J. B. Post Co. Franconi Auto Parts Triangle Shoe Stores Franklin Federal Savings Northeastern Pennsylvania & Loan Assn. National Bank & Trust Co. General Roofing Co. Wilkes-Barre Iron & Glen Alden Corp. Wire Works C. F. Goeringer Wyoming National Bank Construction Co., Inc. of Wilkes-Barre Harry F. Goeringer & Sons Walben, Inc.

# Registration

Every student is expected to register at the beginning of each term on dates specified in the College calendar. A student presenting himself for registration after the time designated for registration will pay a late registration fee of \$5.00.

Student Life at the College

Counseling

**Educational Resources** 

Student Activities

**Athletics** 

**Student Regulations** 

Studying at Wilkes

The spirit of the College is the integrity of its mission, the intellectual climate that enriches the student as a person.

The spirit of the College derives from the ideals of the Faculty and the quality of its instruction; from its library, its laboratories and equipment.

The College believes that no attention can be too great which intensifies a student's thinking or deepens his interest or develops his techniques and skills.

It believes that a good student commits himself to the disciplines of his work. To learn, to master, and to understand he must accept the responsibilities that he shares with others.

# Counseling

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; most of all he must learn to assume responsibility for all he does.

#### FRESHMAN ORIENTATION PROGRAM

The transition from the directed work of the high school to the independent and more intensive work of the College occasionally causes difficulty. Several days at the beginning of the term are therefore set aside to assist freshmen in planning their academic program.

During the first week, new students take aptitude, interest, foreign language, and English-placement tests. The week also gives the new students an opportunity to become acquainted with one another and to learn about the College, the curriculum, and the student activities.

Throughout their first term small groups of freshmen meet for one hour a week to discuss informally their personal, academic, and vocational objectives. Representatives of the Faculty discuss with them:

- 1. Methods of intelligent self-directed study.
- 2. Standards of value in personal conduct and in relationships with others.
- 3. Values of the College extra-curricular program.
- 4. The value of college experiences in developing a philosophy of life.

By placing responsibility upon the student for planning and conducting these discussions, the College encourages clear thinking, initiative, poise, and breadth of view.

#### STUDENT ADVISEMENT

Students sometimes need guidance in resolving personal, social, and academic difficulties. Since a student's physical and mental

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health affect his studies and his grades, he is encouraged throughout his college career to consult with his classroom instructors, his faculty adviser, the Deans, or the Department Chairmen concerning his scholastic progress.

#### COLLEGE CONSULTATION SERVICE

The College Consultation Service offers individual assistance to students with difficulties of a personal or environmental nature. Students may apply directly to the Consultation Service for appointments or may arrange for consultation through the Deans' Office. Interviews with the specially trained staff are conducted on an entirely confidential basis.

## **Educational Resources**

#### THE LIBRARY

Kirby Hall, the gift of Allen P. Kirby, houses the College library. Students and faculty use the resources of its periodical and reference rooms and depend on the more than 50,000 volumes and some 400 current periodicals and journals for research and reading assignments.

Shelved on open stacks, the books are easily accessible and may be borrowed for periods of two weeks. Reserve books for particular courses circulate for the time period specified by the instructor.

The library is open Monday through Thursday from 8:00 A.M. to 9:30 P.M. and on Friday from 8:00 A.M. to 5:00 P.M.; on Saturday from 1:00 P.M. to 4:00 P.M. During vacation periods the hours are 9:00 A.M. to 5:00 P.M.; during examination periods from 8:00 A.M. to 4:00 P.M.

The services of the two community libraries, the Osterhout Free Library in Wilkes-Barre and the Hoyt Library in Kingston, are also available to students.

#### SCIENCE FACILITIES

Stark Hall, named in honor of Admiral Harold R. Stark and completed in 1958, houses the science departments of the college. These facilities include 5 physics laboratories completely equipped for studies in all fields of the physical sciences; 5 chemical laboratories equipped for instruction and research in all fields of chemistry; 5 biology laboratories completely equipped for instruction and research in the biological sciences.

In addition to the completely equipped class laboratories in each department, there are thirteen faculty offices equipped for research, two photographic dark rooms, animal rooms, greenhouse facilities, and student research rooms available for undergraduate studies.

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#### RESEARCH

Research in the sciences has included such varied work as allergy research sponsored by the National Institutes of Health, Education and Welfare; immunochemical research sponsored by the Pennsylvania Heart Association; basic research on plant development sponsored by the National Science Foundation; and basic research in protozoology sponsored by the National Science Foundation.

## Student Activities

The student activities of the College broaden a student's interests begun in the classroom. The Faculty encourages a program of extra-curricular activities that contribute to the educational development of the student who chooses to participate.

Student activities are designed to appeal to a wide variety of tastes and talents; as such they enjoy the support of the College community. The student activities include Athletics, Dramatics, the College Band, Debating, Choral Club, Collegians Male Chorus, Women's Chorus, Madrigal Singers.

There are four class organizations. In addition, special departmental clubs stimulate and satisfy individual interest in academic, professional, and artistic fields. These clubs are developed for students in cooperation with the Faculty. All women students are members of Theta Delta Rho, headed by its own executive committee, which plans and arranges social activities.

The Faculty discourages the formation of campus organizations that are not open to all students, and groups that are exclusive do not exist. All student groups work in cooperation with faculty advisers and the Deans.

#### STUDENT GOVERNMENT

Government of student affairs rests in a Council composed of annually elected members representing the classes and other student groups. The Council serves as a coordinating agency; it appropriates funds from the Student Activities budget to all student groups; it supervises the College social calendar; it arranges the program for Homecoming; it establishes social regulations and conduct; and it serves in an advisory capacity to the Director of Student Activities and the Administrative Council.

#### INTER-DORMITORY COUNCIL

The Inter-Dormitory Council, made up of elected representatives from the men's and women's residence halls, plans and coordinates dormitory social functions and develops and administers dormitory policy.

#### 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.

Each student is required to attend 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.

#### **Publications**

The students publish the *Beacon*, a weekly newspaper; the *Manuscript*, a literary magazine, issued in the Spring; and the *Amnicola*, the College annual. There are opportunities for students on the editorial, art, and business staffs.

Graduated amounts, in the form of tuition stipends, are available to students in the upper classes who hold editorial and managerial positions on the student publications. Students eligible for these grants should make written application to the faculty director of the publication before April 1.

Tuition Stipends for the Staffs of the Amnicola and Beacon
Based on Years of Service

Position	YEARS OF SERVICE								
mina Pinus Thog 1935or	4	3	2						
Editors-in-Chief	\$650.00	\$485.00	\$430.00						
Business Managers } Special Editors	485.00	325.00	215.00						

## **Athletics**

Athletics are an integral part of the activity program and as such are subject to policies set by the faculty and administration and approved by the Board of Trustees.

The College maintains intercollegiate schedules in eight varsity sports: football, baseball, basketball, soccer, golf, tennis, swimming, and wrestling. Men who take part in intercollegiate sports satisfy the requirements for physical education for the duration of that sport.

A program of intramural sports and physical education stresses physical standards and cooperative team spirit and recreation. Every man has a chance to participate in basketball, touch football, volleyball, softball, and bowling. The athletic program for women includes dancing, folk and modern; bowling, basketball, softball and swimming.

#### ATHLETIC POLICY

Intercollegiate athletics are introduced for the benefit of the student body and in consequence athletes receive the same consideration in admissions and in the awarding of scholarships that is given to other students. Wilkes enters into intercollegiate competition with other colleges of the Middle Atlantic Conference adhering to similar policies of admission and maintaining comparable scholastic standards.

The College is a member of the Middle Atlantic Collegiate Athletic Conference, the National Collegiate Athletic Association, and the Eastern Collegiate Athletic Conference.

# Student Regulations

It is recognized that courtesy and consideration are the basis of good relations between individuals. Informal and friendly associations between students and faculty are a tradition on campus.

Although these relations are flexible, certain precedents have been established in the best interests of the individual and the College. A few are mentioned here:

- 1. The possession and use of liquor on campus are forbidden, and none will be served at college affairs.
- 2. Smoking is not permitted in classrooms or hallways, in the library, or on the first floor of the Commons. Facilities are available in various buildings for students who may wish to smoke during their free periods.
- 3. The College provides several parking lots for student automobiles. Since facilities are limited, dormitory and commuting students are required to purchase at the Finance Office a permit which entitles them to park their cars in the areas reserved for their use. Cars which do not display appropriate parking stickers will be towed away at the student's expense. Freshmen and sophomore dormitory students are not permitted to maintain cars on campus.
- 4. Although participation in at least one student activity is encouraged, each student is responsible for planning and utilizing his time effectively.
- 5. The Faculty cooperates with students who miss classes because of illness, or as representatives of the College, or for special religious observances; in such cases, the student shall present his instructors with a note from the Deans explaining his absence. In all instances the student is expected to make up the work that is missed.

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### STUDENT RESPONSIBILITY

The students in a great measure determine the influences of the College. The Faculty counts upon their cooperation in establishing the highest possible standards of intellect and morals.

Because students benefit from a program and policies to which they subscribe, the College may request students to withdraw when their influence and behavior are deemed detrimental to the best interests of the student body.

# The Academic Program of the College

Curricula

Faculty Requirements

Graduation

**Advanced Study** 

College and Community

# Learning at Wilkes

Education leads men to seek answers to problems of significance and to inquire into ideas and beliefs of eternal relevance. There is no better expression of man's purpose than his sense of belonging to a universe ruled by truth.

Thought has roots in the world of human experience. Creative thinkers set the standards and the high aims of education. One may not reach these standards in his lifetime; that they are recognized and sought after is the measure of one's creative interests.

The student can strive for technical and professional competence, but the inner resources of the mind and spirit must nourish and enrich his achievement.

The Faculty can teach the student facts, but his contribution to a free society depends upon the continual expansion of his knowledge and upon its relevance to human experience.

Education is the process of connecting and relating, of testing and retesting, of discovery and rediscovery.

The Faculty encourages the student to cultivate learning that he may grow in wisdom. In this way the mind in its journeyings finds constant surprise and delight at rediscovering itself.

## Curricula

#### DEGREE PROGRAMS

Wilkes is a liberal arts college that offers the degree of Bachelor of Arts in the humanities, the social sciences, and the natural sciences. The College also confers the degree of Bachelor of Science in chemistry, medical technology, commerce and finance, and elementary, secondary, art, business, music, and nursing education.

#### ENGINEERING AND PHYSICS

Qualified students may enter the two-year engineering curriculum. Upon the successful completion of the physics and engineering program the student may transfer as a junior to an institution granting degrees in his field. It is possible that before 1961 the physics program will be extended to include the full four years of study required for the Bachelor's degree.

#### TERMINAL PROGRAMS

Students may earn terminal Certificates in the two-year secretarial and pre-dental curricula, in addition to the three-year pre-dental program.

#### GRADUATE PROGRAMS IN EDUCATION

Wilkes is cooperating with two universities, Bucknell and Temple, to bring to the area graduate programs in education.

The Bucknell University program leads to the degree of Master of Science in Education and satisfies the requirements of the Commonwealth in guidance and administration. Courses are offered in the evening.

The Temple University program leads to the degree of Master of Science in General Education and is accepted by the Commonwealth for permanent certification of classroom teachers.

Candidates may register at the College. Under the cooperative program existing between Wilkes and the two universities, all credits are guaranteed by the universities.

Details of these graduate programs may be obtained by writing to the Director of Admissions.

#### EVENING DIVISION

The evening division offers educational opportunities to adults who cannot attend day classes. Students may register for courses in the Evening Division and earn credits toward an undergraduate degree.

Students will confer with the Director of the Evening Division to arrange a course of study to meet their needs, abilities, and special requirements. During the semester students will consult with the Assistant Director of Evening Classes concerning their program.

When the student completes thirty hours, his record is reviewed by the Admissions Committee. At this time the Committee recommends that a student continue to work for a degree, or be placed on probation, or withdraw from the Evening Division.

Students who do not desire a degree are admitted to all classes which they are qualified to take by reason of their maturity, previous education, and experience. High school training is desirable but not necessary, provided the student is qualified to follow special courses of instruction in which he wishes to register.

The courses offered in the Evening Division are designed for 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. Individuals wishing to broaden their knowledge or to increase their skill in certain fields for their personal satisfaction and improvement.

Day School students will be allowed to take courses in the Evening Division only after having received written permission from the Deans.

#### SUMMER SCHOOL

The Faculty offers selected courses during an eight week summer session, which begins in the third week of June.

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.

# Faculty Requirements

GRADES

The primary purpose of any marking system is to inform the student of his achievement. Marks also aid in evaluating students for purposes of recommendation. Grade reports are sent to students and parents at the end of each term. Mid-term reports are sent if the work is unsatisfactory.

Five numerical grades and a subscript E for English usage are given for academic work.

												nterpretatio
4												Superior
3												Verygood
2												. Good
1												. Passing
0												. Failing

An E subscript is given with the grade for the course when the written or oral English of the student is below standard. If the student at the end of any term is judged deficient by two or more instructors of subjects other than English, he must complete satisfactorily an additional course in English composition. This course shall be taken during the term immediately following, if possible, but under any circumstance it must be taken during the following year. No student is eligible for graduation unless he is deemed competent in the use of the English language.

Inc. means that a student receives an incomplete grade. Incompletes will be granted to students who because of illness or reasons beyond their control have been unable to satisfy specific course assignments. All unfinished work must be completed before the sixth week of the following term. If an incomplete is not removed within this period, the grade will be changed to a zero.

#### COURSE CREDITS

Each course at the College is assigned a specific number of credits. For example, English 101 is a 3 credit course and English 151 is a 4 credit course. Usually, credits assigned to the course are determined by the number of hours that the class meets per week.

#### POINT AVERAGES

The student is given a number grade for every course in which he is enrolled. To calculate the number of points earned in a course, multiply the grade in each course by the number of credit hours for the course. To compute the point average, total these points for all courses and divide by the total number of credit hours.

Below is an example illustrating the method used to compute point averages.

	Credit H	rs.	Credit H			
Course	Carrie		Points	Passed		
Bio. 100	3	4	12	3		
Eng. 101		3	9	3		
Fr. 101	. 3	2	6	3		
Hist. 101	. 3	1	3	3		
Mus. 100		0	0	0		
Total credit hrs. carried	. 15					
Total credit hrs. passed				12		
Total points earned			30			
Average30 ÷ 15 =	2.0					

Notice that the student has accumulated 12 credits toward graduation. The zero grade in music means that the student must repeat that course.

Averages are cumulative; the work of each semester will be added to the total. Graduation from the College requires that a student maintain a 1.85 over-all average and a 2.0 over-all average in his major field.

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#### CLASS STANDING

Marks and averages determine whether or not a student is receiving sufficient benefit to remain in college. The Faculty requires that the student earn the following averages to advance from class to class:

Class	Average
Sophomore	14
Junior	17
Senior	. 1.85

#### PROBATION

A student who does not meet these requirements and who wishes to remain in college must petition the Deans' Probation and Evaluation Committee and convince them that he merits another opportunity. All petitions must be submitted by July 20.

#### 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.

#### STUDENT LOAD

Students shall ordinarily be limited to the normal load for the course of their choice. In the Liberal Arts this will be 16 hours with Physical Education; in the Sciences it will sometimes be 17 or 18 hours. Any student wishing to carry an overload must obtain the approval of his adviser and of the Dean.

The maximum load for students with a 3.0 average shall be 18 hours, and 20 hours the absolute maximum for all students.

Credits in excess of the normal load are charged at the usual rate per credit, unless it can be shown that a student is compelled to take an overload because of the rotation of courses within a department.

#### WITHDRAWALS

Students may change their courses during the first two weeks of a semester, provided they secure the approval of their faculty adviser and the Dean. A student who withdraws from a course after the first two weeks but who continues other courses will receive a zero unless the Dean, faculty adviser, and instructor agree that the student be permitted to drop the course without prejudice.

No student who has been advised to withdraw from the College's day school program for academic reasons will be permitted to register in the Evening Division without the written consent of the Deans and then will be allowed to register only as a non-matriculating student.

Students who withdraw from the Evening Division or drop courses should give prompt written or verbal notice to the Director of the Evening Division and to the instructors concerned, in order that their records may not unjustly show failure in courses.

#### CHANGE OF PROGRAM

Students who wish to transfer from one department to another shall obtain the approval of the Department Chairmen. The student shall satisfy the curriculum requirements of the Bulletin in force at the time of transfer.

### TRANSFER OF SUMMER CREDITS

Students desiring to study at another college during the summer must petition the Graduation Committee for approval. The student must earn a grade of 2 or higher in order for the work to be credited toward graduation. In some cases it may be necessary for a student to take examinations before credit is granted.

#### DEAN'S LIST

The Faculty gives recognition for high quality work. Candidates for the Dean's List, published at the end of each term, must obtain a point average of 3.5 or higher.

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#### HONORS

The granting of Honors at Commencement is based upon the academic record made by the student during his last two years at the College. Requirements for Honors are as follows: for cum laude, a cumulative average of 3.5; magna cum laude, 3.60; summa cum laude, 3.80.

# Requirements for Graduation

All candidates for degrees and certificates must be present at Commencement. If circumstances prevent their attendance, students must apply to the appropriate Dean for permission to take the degree or certificate *in absentia*.

The Faculty has approved the following requirements which the student must satisfy in order to be eligible for graduation:

- 1. He must complete all subjects required for the degree as stated in the Bulletin in force at the time of his admission to the program. Transfer students must complete the last 30 credits in residence at the College.
- 2. He must earn a grade of 1 or better in each required subject.
- 3. He must obtain a cumulative average of 1.85 for all courses.
- 4. He must obtain a cumulative average of 2.0 for all subjects within his major.
- 5. He must satisfy all requirements pertaining to the orientation and assembly programs and physical education.
- 6. He must show competency in speaking and writing English.

Students enrolled in terminal programs must complete all course requirements and must earn a cumulative average of 1.7 for all courses.

Engineering and physics students will receive certificates upon completion of 60 credits of required work plus P. E. 101, 102, 103, 104, 105, 106, provided they attain a cumulative average of 1.7 for all courses.

No student shall graduate until all financial obligations to the College have been satisfied.

## Awards

At Commencement a number of awards are presented to outstanding students in selected fields. The Deans also give two special awards for highest academic achievement.

#### SENIOR AWARDS

THE DEAN'S 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 ANNETTE EVANS AWARD in the humanities and social sciences is granted each year to the man or woman in the graduating class who has demonstrated outstanding scholarship in one or both of these areas, and has manifested intellectual curiosity and creative imagination.

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 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 WALL STREET JOURNAL AWARD is granted to a graduate in commerce and finance for high scholarship in his field of concentration.

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 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 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.

#### Undergraduate Awards

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 LINDA MORRIS AWARD is given by Mr. and Mrs. Herbert Morris in memory of their daughter, Linda, to that young woman who has maintained the highest academic record through the first three years at Wilkes College.

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.

THE WILKES FACULTY WOMEN'S AWARD is given to the sophomore woman who has ranked first in her class during her freshman year.

# Advanced Study

#### PREPARATION FOR PROFESSIONS

Students planning to go to graduate school should consult as early as possible with their department chairman. The program at Wilkes has been carefully designed so that students may meet the entrance requirements of graduate and professional schools. Liberal arts preparation provides an excellent background for work in professional schools, such as those of Business Administration, Education, Library, Law or Theology.

Wilkes 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.

#### ALUMNI OFFICE

The Alumni Office keeps records of the addresses of all living graduates and alumni of the College. It edits the *Alumnus* and acts as liaison for the College with alumni and interprets to the alumni chapters the changes and needs of the institution.

#### GRADUATE PLACEMENT

The Placement Office assists seniors in finding permanent employment in a position suitable to their talents and training. It also extends such assistance to any graduate of the College.

# College and Community

The College was founded to serve the community and has received a large measure of its ever-growing support from outstanding leaders in the community. It has recognized for many years that its growth was related to the economic and social redevelopment of the community and, therefore, it has sought to participate in every effort for community betterment. In consequence, a pattern of cooperation has developed in which the College and the Community work with one another for their mutual benefit.

#### LABOR-MANAGEMENT TRAINING PROGRAM

Because Wilkes serves an area which has been undergoing drastic economic readjustments, it is deemed essential that every effort be made to encourage cooperative planning and action. To establish a climate for industrial redevelopment the College has pioneered a Labor-Management Training Program in which the needs of the individual and the company are analyzed.

Plans are arranged in consultation with officials, foremen, and other employees and are designed to meet the general and specific requirements of the particular company. Where several firms are confronted with common problems, special classes are organized to include representation of several companies.

The program designed for members of labor unions is tailored to the particular needs of the group. Broad topics in economics are presented to provide a basis for the discussion of ideas, laws, and practices. All classes are conducted on the College campus where the academic climate induces and stimulates free intellectual inquiry. It has been demonstrated that in this atmosphere the members participate more freely in the discussion and consideration of significant problems.

As an integral part of the three-pronged Labor-Management Training Program, union and management personnel sometimes meet together in an effort to develop that mutual understanding that is essential to constructive action.

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#### INSTITUTE OF MUNICIPAL GOVERNMENT

The Institute of Municipal Government, developed from the activities of the Political Science department, offers an educational program for public officials. By providing training, the Institute informs locally elected or appointed public leaders of modern practices in government. The Institute does not campaign or enter politics. The Institute does cooperate with municipal leagues and associations engaged in consultation and research on the local governmental level.

The Institute publishes a monthly Newsletter containing timely articles related to the responsibilities of local officials interested in the rehabilitation of the region.

The Institute has offered courses to magistrates, borough and township secretaries, police, councilmen and commissioners, health officers, and school directors. During the past five years over one hundred merit awards have been presented to outstanding local officials for service to their communities.

#### MATHEMATICS FOR HIGH SCHOOL TEACHERS

Wilkes College, under the sponsorship of the National Science Foundation, has offered for high school teachers classroom instruction intended to increase the competence of teachers in the subject matter of mathematics and the natural sciences. Particular emphasis is on topics in the new mathematics and science of the twentieth century.

#### WILKES-BARRE PHILHARMONIC ORCHESTRA

The Wilkes-Barre Philharmonic Orchestra, organized under the ægis of the College in the fall of 1951, presents a series of three symphony concerts annually. The professional leadership, as well as a number of the members, comes from the department of music of the College.

#### FINE ARTS FIESTA

The College participates with area-wide cultural groups in the Wyoming Valley Fine Arts Fiesta, a program of music, drama, and the arts presented on the public square each spring.

# Programs and Courses of the College

# 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.

Terminal Programs

Description of Courses

# Degree Programs

Religion

#### 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 English Foreign Languages Mathematics Music Philosophy	Economics Education History Political Science Sociology	Biology Chemistry Physics Psychology

#### 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.

#### MINIMUM REQUIREMENTS IN CREDITS FOR LIBERAL ARTS MAJORS

		HUMANITIES	Side Marie		
Major Subject	Major	Humanities	Social Sciences	Sciences	Free Election
Art	38	32	15	6	29
English	40	24	15	6	35
Foreign Language	24	31	15	6	45
Mathematics	28*	34	15	14	30
Music	47	45	15	6	14
Philosophy-Religion	24	37	15	6	38
	So	CIAL SCIENCE	S		
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	24	37	15	9	35

<sup>\*</sup>Does not include Math. 105. If a student is required to take Math. 105, it will count as a free elective.

#### BACHELOR OF ARTS

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

#### FRESHMAN YEAR

First Semester			Second Semester						
- 1111	mber	Cr.	Title Nu	nber	Cr.				
Biological Science <sup>1</sup> Bio Composition Eng Foreign Language <sup>2</sup> Hist. of W. Civilization Hist Alternates: Introduction to Music Mus Physical Science Phys Phys. Ed. P. E. Pers. Hyg. P.E. Orientation	101 100 100) 101	3 3 3 3 0 1	CompositionEng Fundamentals of SpeechEng Foreign Language <sup>2</sup> . Hist. of W. CivilizationHist Alternates: Introduction to MusicMus Physical Science <sup>1</sup> Phys Phys. EdP.E. Pers. HygP.E.	102 131 102 100 100)	3 2 3 3				
		16			15				

#### SOPHOMORE YEAR

Third Semester			Fourth Semeste	*	
Title Nun		Cr.	Title	Number	Cr.
World Literature		3	World Literature Eng Foreign Language <sup>2</sup>	152 h 107–10	4 3
Intro. to Education Ed Intro. to Political Science . P.S. General Psychology Psy Intro. to Sociology Soc Elective	101   100   100   100	6	Intro. to Education Ed Intro. to Political Science	101 100 100	6
Phys. Ed	103	0	Phys. EdP.E.	104	0
		16			16

#### JUNIOR YEAR

Fifth Semester

Sixth Semester

Major and Electives-30 hours

#### SENIOR YEAR

Seventh Semester

Eighth Semester

Major and Electives-30 hours

Students may substitute a laboratory course in science for Bio, 100 or Phys. 100. <sup>2</sup> The level of the course will depend upon the achievement of the student. Except for foreign language majors, language requirement is through 104 course, or an equivalent course prescribed by his adviser.

<sup>3</sup> Philosophy is required in either the third or fourth semester.

<sup>&</sup>lt;sup>a</sup> Philosophy is required in either the third of fourth semester.

<sup>b</sup> 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.

DEGREE PROGRAMS - Page 59

#### FRESHMAN YEAR

First Semester			Second Semester						
Title Na	umber	Cr.	Title Nu	mber	Cr.				
Basic Art	101	3 3 3	Basic Art	102	3 3 3 3				
Phys. Ed. P.E. Pers. Hyg. P.E. Orientation			Phys. Ed. P.E. Pers. Hyg. P.E.						
		16			16				

#### SOPHOMORE YEAR

	OO.	TA CALL	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
Third Semester			Fourth Semester					
Title	umber	Cr.	Title	nber	Cr.			
Applied ArtArt	: 103	3	Applied ArtArt	104	3			
Composition and Color Art	114	2	Composition and ColorArt	115	2			
Foreign Language <sup>1</sup>		3	Foreign Language <sup>1</sup>		3			
Electives in Humanities		3	Electives in Humanities		3			
Social Science or Psy		3	Social Science or Psy		3			
Phys. Ed	E. 103	0	Phys. Ed	104	0			
The same of the sa		-			-			
		14			14			

#### JUNIOR YEAR

Fifth Semester		Sixth Semester			
Title	Number	Cr.	Title	nber (	ir.
Illustration or	rt 211 rt 215 ng 131	-	Illustration or. Art Advertising Design or Art Fine Art. Art World Literature. Eng Electives in Humanities, Social Science or Psy. Studio II.	202 212 216 152	3 4 6 2
		17			15

Si	ENIOR	YEAR	
		Eighth Semester	
Vumber	Cr.	Title Nur	mber Cr.
t 213	} 3	Illustration or	204 214 218
	Number 203 t 213 t 217	Number Cr. t 203 t 213 t 217	Number         Cr.         Title         Num           tt         203         Illustration or

The level of the course will depend upon the achievement of the student, through 104 course or an equivalent prescribed by his adviser.

### BACHELOR OF ARTS

Major in Biology

-				
HR	ESH	MAN	YEA	1

First Semes	ter			Second Semester		
Title	Number	Cr		Title Nun	aber	Cr.
General Zoology Gen. Inorganic Chem			5	General ZoologyBio Inorganic Chem. and	102	4
Composition			3	Qualitative AnalChem	102	6
College Algebra			3	Composition		
Phys. Ed			0	TrigonometryMath		
Pers. Hyg	P.E. 10	5	1	Phys. Ed	102	. 0
Orientation				Pers. HygP.E.	106	1
		-	-			-
		1	6			17
	Sor	РНО	мо	DRE YEAR		

	SOPHOMORE	IEAR		
Third Semester			Fourth	Semeste

Title Nun	nber	Cr.	Title Num	aber .	Cr.
Comparative Anatomy of			EmbryologyBio		
the VertebratesBio	201	4	Organic ChemChem	230	4
Inorganic Quantitative Anal Chem	121	4	World LiteratureEng	152	4
World LiteratureEng		4	Hist. of W. CivilizationHist		
Hist. of W. Civilization Hist		3	Phys. EdP.E.	104	0
Phys. Ed P.E.	103	0	The late Military and the same of the same		
		_			-
		15			15

#### JUNIOR YEAR

Fifth Semeste	er	Sixth Semester			
Title	Number	Cr.	Title Nun	aber	Cr.
HistologyOrganic ChemForeign Language <sup>1</sup> Introductory Physics	.Chem 231	5 3	Genetics	112 100	3 4 3

	10			10
S	ENIOR	YEAR		
		Eighth Semester		
mber	Cr.	Title Nu	mber	Cr.
		Foreign Language <sup>1</sup> Botany, Bio. 112 or	232 262	
- 1	3-4 3-4 6-18	Bacteriology, Bio. 2121 Electives <sup>3</sup>	-	3-4 6-7 6-18
	mber 231 100	mber Cr. 231 4 100 3 3	mber         Cr.         Title         Nu           231         4         Ecology	### Eighth Semester    Marker   Cr.   Title   Number

The level of the course will depend upon the achievement of the student. The student must take a foreign language through 104 or an equivalent course prescribed by his adviser.

<sup>&</sup>lt;sup>2</sup> The student must take a full year course in botany or bacteriology in the senior year.

<sup>&</sup>lt;sup>3</sup> Electives must be selected from the humanities or social sciences.

#### BACHELOR OF ARTS Major in Mathematics

Major in Mathematics

Students planning to major in mathematics should take courses in high school that prepare them to start the college mathematics program with the course in Analytic Geometry. However, since not all students are prepared for this course, the program may be started with the course in College Algebra and Trigonometry. Students doing the latter should plan to finish Differential Equations and Infinite Series by the end of the fourth semester. This may be accomplished in several ways:

1. Math. 107 and Math. 109 may be taken in the summer session preceding the freshman year.

2. After completion of Math. 105 and Math. 122 in the freshman year, Math. 125 may be taken in the summer session between the freshman and sophomore years.

and sophomore years.

and sopnomore years	•			
First Semester	FRESHMA	N YEAR	Second Semester	
Title Nu	mber Cr.	Title	Nun	nber Cr.
Biological Science Bio Composition Eng Foreign Language¹  Mathematics Mat Mat	101 3	Fundament	eals of SpeechEng	131
Mathematics	h 105 4-5	Mathemati	cs{Matl Matl	1 125
Phys. Ed. P.E. Pers. Hyg. P.E. Orientation	101 0	Phys. Ed		102
	14-15			1
Third Semester		ORE YEAR	Fourth Semester	•
	mber Cr.	Title		nber Cr.
Intro. to Economics Ec Principles of Economics Ec World Literature Eng	$100 \\ 101$ 3	World Lite Foreign La	ratureEng nguage <sup>1</sup> I Equations	
Foreign Language¹	3 126 4 100 3	General Ph	ite Ŝeries Math ysics I Phys 	150
Phys. EdP.E.	103 0			
	17			1
Fifth Semester	JUNIOR	YEAR	Sixth Semester	
Title Nur.	nber Cr.	Title	Nun	nber Cr.
History of W. Civilization Hist Mathematics Elective <sup>2</sup> General Physics II Phys Intro. to Sociology Soc Elective	151 4	Mathemati Intro. to Pl Intro. to Pe	W. Civilization Hist cs Elective <sup>2</sup>	1
	16-19			15-10
Seventh Semester	SENIOR	YEAR	Eighth Semester	
	nber Cr.	Title	Nun	aber Cr.
Mathematics Elective <sup>2</sup> Intro. to MusicMus Elective	3 100 3 9–12	Mathemati Elective	cs Elective <sup>2</sup>	1
	15-18			15
	I series in the		and the same of the same	

The level of the course will depend upon the achievement of the student. The student must take a foreign language through 104 or an equivalent course prescribed by his adviser.

#### BACHELOR OF ARTS

Major in Music

#### FRESHMAN YEAR

	FRE	SHMA	IN I EAR		
First Semester			Second Semester		
Title Nun	nber	Cr.	Title Nun.	aber .	Cr.
Biological ScienceBio	100	3	Composition Eng Foreign Language	102	3
Composition Eng	101	3 5	Music Theory Mus	102	5
Music Theory	101	1	Physical Science	100	3
Phys. Ed	101	0	Phys. Ed	102	0
Pers. HygP.E.	105	1	Pers. HygP.E.	106	1
		16			16
	SOPE	HOMO	DRE YEAR		
Third Semester			Fourth Semester		
Title Nu	mber	Cr.	Title Nun	nber	Cr.
Foreign Language		3	Foreign Language	101	3
Music Theory Mus	103	5	Music Theory Mus	104	5
Applied Music <sup>1</sup>		1	Applied Music <sup>1</sup> Electives in Humanities,		
Electives in Humanities, Soc. Science or Psych		6	Soc. Science or Psych		6
Phys. EdP.E.	103	0	Phys. EdP.E.	104	C
nys. Edi		15	MEGRI STREET,		15
	It		YEAR		
Fifth Semester	,		Sixth Semester		
	mber	Cr.	Title Nur.	nber	Cr.
Fundamentals of SpeechEng	131	2	World LiteratureEng	152	4
World LiteratureEng	151	4	Hist, of W. CivilizationHist	102	3
Hist, of W. Civilization Hist	101	3	History of MusicMus	110	3
History of MusicMus	109	3	Applied Music		2
Applied Music <sup>1</sup>		2	Electives in Humanities, Soc. Science or Psych		3
Electives in Humanities,		3	Soc. Science of Tsych		
Soc. Science or Psych		_			-
		17			15
	Sı	ENIO	R YEAR		
Seventh Semester			Eighth Semester		
Title Nu	mber	Cr.	Title	mber	Cr
Applied Music <sup>1</sup>		2	Applied Music <sup>1</sup>		:
Instrumentation Mus	215		OrchestrationMus	216	-
AnalysisMus	217		CounterpointMus	218	
Electives		9	Electives		-
		15			10

<sup>1</sup> Private instruction.

<sup>&</sup>lt;sup>2</sup> Math 100, 101, 102, 115, 118 will not count toward a major.

18

#### 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 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.

Students planning to major in Chemistry or Physics should take courses in high school that prepare them to start the college mathematics program with the course in Analytic Geometry. However, since not all students are prepared for this course, the program may be started with the course in College Algebra and Trigonometry. Students doing the latter should plan to finish Differential Equations and Infinite Series by the end of the fourth semester. This may be accomplished in several ways:

- 1. Math. 107 and Math. 109 may be taken in the summer session preceding the freshman year.
- 2. After completion of Math. 105 and Math. 122 in the freshman year, Math. 125 may be taken in the summer session between the freshman and sophomore years.

First Semester FRESHM	IAN YEAR Second Semester
Title         Number Cr.           General Inorganic Chem.         Chem 101 4           Composition.         Eng 101 3           Math 122 4-5           Intro. to Political Science.         P.S. 100 3           Basic Physical Problems.         Phys 101 1           Phys. Ed.         P.E. 101 0           Pers. Hyg.         P.E. 105 1           Orientation         16-17	Title
Third Semester SOPHOM	ORE YEAR Fourth Semester
Title Number Cr.  Inor. Quantitative Analysis Chem 121 4 Hist. of W. Civilization Hist 101 3 Calculus II Math 126 4 General Physics II Phys 151 4 Phys. Ed P.E. 103 0	Title Number Cr. Organic Chemistry Chem 230 4 Hist. of W. Civilization Hist 102 3 Differential Equations and Infinite Series Math 240 4 General Physics III. Phys 152 4 Elective (optional) 0-3 Phys. Ed. P.E. 104 0
15	15-18
Fifth Semester JUNIO	R YEAR Sixth Semester
Title Number Cr. Organic Chemistry Chem 231 5 Physical Chemistry Chem 241 4 Foreign Language 101 or 103 3 Elec. Measurements Phys 251 3 Elective 3	Title Number Cr. Physical Chemistry Chem 242 4 Foreign Language 1 102 or 104 3 Stoichiometry Ch. Eng. 106 3 Elective 8

Seventh Semest	er	ENIOR	LI EAR EI	ghth Semester	
Title	Number	Cr.	Title	Numbe	er Cr.
Qualitative Organ. Anal	Chem 233	3 3		nalysisChem 1	
History of Chemistry	Chem 261	1	West. World Lit	eratureEng. 1	52 4
West. World Literature	Eng. 151	1 4	Chemical Litera	tureChem 2	62 1
Foreign Language <sup>1</sup>		3	Foreign Languag	ge <sup>1</sup>	3
Electives		7	Chemistry Elect	ive	3
			Electives		2

SENIOR YEAR TO LUC

The level of the course will depend upon the achievement of the student. See page 98. Electives are to be selected with the advice and consent of the faculty adviser as follows: Humanities: Nine to eighteen credits may be chosen from the following: Eng. 131, 153, 154; Phil. 101, 102; Mus. 100; Rel. 101. Social Sciences and Psychology: Nine to fifteen credits may be chosen from the following: Soc. 100, 107, 205; P. S. 100, 203; Ec. 100, 101, 102; His. 107, 108; Ed. 101, 201, 207; Psy. 100.

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#### 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 is emphasized by the many new problems which have arisen with the application of nuclear energy. 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	Number Cr.	Title	Number Cr.		
Engineering Proble Composition Elementary Germa Mathematics <sup>2</sup> Phys. Ed	Chem. Chem 101 4 ems. Engi 100 2 Eng 101 3 m¹. Ger 101 3 [Math 122] Math 105] P.E. 101 0 P.E. 105 1	General Inorganic Che Elementary German <sup>1</sup> . Mathematics <sup>2</sup> General Physics I Phys. Ed Pers. Hyg.	Ger 102 3(Math 125) 4(Math 122) 4Phys 150 4P.E. 102		
	17–18		18		

#### SOPHOMORE YEAR

Third Semester			Fourth Semester			
Title Num	ber	Cr.	Title Num	ber	Cr.	
Engineering Drawing . Engi Composition . Eng Fundamentals of Speech . Eng Calculus II	102 134 126 151	3 4 4	Engineering Drawing Engi Amer. History since 1865 Hist Mathematics <sup>2</sup> Math Mechanics I, Statics M.E. Mechanics II, Dynamics M.E. General Physics III Phys Phys. Ed. P.E.	108 240 211 212 152	3 4 3-6	
		17	maps because the square and to specify all all and the square and	-	6-19	

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

<sup>&</sup>lt;sup>2</sup> See paragraph on Mathematics under Bachelor of Science in Chemistry.

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## BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

Fire	RESHN	MAN YEAR
First Semester		Second Semester
Title Numb	er Cr.	
General Inorganic Chem	101 3	1 \ u /// 0 er
So	16 PHOM	ODE VILL
Third Semester	PHOM	ORE YEAR
T: 1		Fourth Semester
1\111100	r Cr.	Title Number
Inor. Quantitative Analysis. Chem 1: Fundamentals of Speech. Eng 1: Hist. of W. Civilization. Hist 10: Foreign Language <sup>1</sup> . Math 12: Phys. Ed. P.E. 10:	31 2 01 3 3 22 4	Microtechnique Bio 204 Organic Chemistry Chem 330 Hist. of W. Civilization Hist 102 Foreign Language <sup>1</sup> General Psychology Psy 100 Phys. Ed. P.E. 104
	16	
A Committee of the Comm		
Fifth Comment	UNIOF	YEAR
Fifth Semester Title Number		Sixth Semester
Bacteriology Bio 21 World Literature Eng 15 Foreign Language¹ Phys 11: Elective in the Social Sciences	1 4 1 4 3	Title Number Of Bacteriology Bio 212 World Literature Eng 152 Foreign Language Introductory Physics Phys 112 Sociology Soc 100
Si	ENIOR	YEAR <sup>2</sup>
Seventh Semester Title Clinical Chemistry 13 Weeks Microbiology 8 Weeks Urinalysis 4 Weeks		Eighth Semester Title Haematology and Blood Bank 12 Weeks Histology
25 Weeks		25 Weeks
Total academic hour	s durin	ag first three years—104
Humanities Sciences Social Sciences Physical Education		

The level of the course will depend upon the achievement of the student. The student must take a foreign language through 104 or an equivalent course prescribed by his adviser.

# 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 major and elective studies.

The commerce and finance curricula include four groups of study to meet

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

		Completellia						
	Group I	Group II	Group III	Group IV				
Subjects	Accounting	Business Administration	Retailing	Secretarial Studies				
	Cr.	Cr.	Cr.	Cr.				
Major	36	24-39	24	23				
Commerce and				25				
Finance <sup>1</sup>		6	30-33	15				
Electives		15	12	38-39				
Humanities	28	28	28	28				
Science	6	6	6	6				
Social Sciences	33	33-48	24-27					
Physical Education	2			15				
	-	_ 2	2	2				
Total	135	129	129	127-128				

<sup>&</sup>lt;sup>2</sup> To be taken at an approved school of medical technology.

<sup>&</sup>lt;sup>1</sup> Does not include major courses.

#### BACHELOR OF SCIENCE IN COMMERCE AND FINANCE Major in Accounting

-	Luj O.		recomments		
	FRE	SHMA	N YEAR1		
First Semester			Second Semester		
Title Nun	nber	Cr.	Title Numb	er Cr.	
Elementary Accounting. Acct Survey of Business. B. A. Biological Science. Bio Composition. Eng Hist. of W. Civilization. Hist Phys. Ed. P. E. Pers. Hyg. P.E. Orientation	101 100 100 101 101 101 105	3 3 3 3 0 1	Physical Science	102 3 102 3 100 3 100 3 102 0 106 1	
		16		16	
Group Til, Kenaling Casus	SOPE	OMO	RE YEAR		
Third Semester			Fourth Semester		
Title Nun	aber	Cr.	Title Numb	er Cr.	
Intermediate Accounting Acct Business Law B.A. Principles of Economics Ec World Literature Eng Fundamentals of Math Math Fundamentals of Speech Eng Phys. Ed P.E.	231 101 151 101 131	3 3 4 3 2 0	Advanced Accounting	232 102 152 102 102 115	
		18		16	
	T		Vala		
Fifth Samastan	) (	NIOR	YEAR Sixth Semester		
Fifth Semester Title Nun	han	C-		C.	
Title Num Cost Accounting. Acct Business Law B.A. Money and Banking. Ec Applied General Statistics Ec Intro. to Sociology Soc Free Elective <sup>2</sup> .		Gr. 3 3 3 3 3 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	202 3 220) 242) 3	
	SE	NIOR	YEAR		
Seventh Semester	O.L		Eighth Semester		
Title Nun	aber	Cr.	Title Numb	er Cr.	
Tax Accounting Acct Auditing Principles Acct Bus. Cor. and Reports B.A. Corporation Finance B.A. Intro. to Music Mus Free Elective <sup>2</sup>	221 231	3 3 3 3 3	Auditing Practice	232 202 236 236 226 3	
		18		15	

<sup>&</sup>lt;sup>1</sup> It is suggested that all students take Typewriting (S.S. 107) during one semester of the freshman year.

<sup>2</sup> 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 Bu	isines	s Administration		
FRE	SHMA	N YEAR1		
First Semester		Second Semester		
Title Number	Cr.	Title Nun	aber	Cr.
Survey of Business	3 3 3 3 3 0 1	Principles of Accounting Acct Composition Eng Hist. of W. Civilization Hist Intro. to Political Science P.S. Physical Science Phys Phys. Ed. P.E. Pers. Hyg. P.E.	102 102 102 100 100 102 106	3 3 3 3 0 1
	16			16
Manager of Charles of the State	nox X	Fit of the second of the		
	OMO	RE YEAR		
Third Semester		Fourth Semester		
Title Number	Cr.	Title Nun		Cr.
Business LawB.A. 231	3	Business LawB.A.		3
Principles of EconomicsEc 101 Fundamentals of SpeechEng 131	3 2	Principles of EconomicsEc World LiteratureEng	102 152	3
Fundamentals of SpeechEng 131 World LiteratureEng 151	4	Alternates:	1 )2	7
Fundamentals of MathMath 101	3	Fundamentals of MathMath		
Phys. Ed	0	Mathematics of FinanceMath		
		Intro. to MusicMus	100	3
		Phys. EdP.E.	104	
	-	Description of the second seco		
	15			16
Ju	INIOR	YEAR		
Fifth Semester		Sixth Semester		
Title Number	Cr.	Title Nun	nber	Cr.
Money and BankingEc 201	3	Alternates:		
Applied General StatisticsEc 231	3	Theory of Money Ec	202	
Intro. to Sociology Soc 100		Economic GeographyEc	226	3
Elective in Social Science	6	C. & F. ElectiveEc	232	3
	111	Alternates:	-)-	,
		Intro. to PhilosophyPhil	100)	
		History of ReligionsRel	100)	
		Marketing	222	3
		Tice Bicchive		
	18			15
Si	NIOR	YEAR		
Seventh Semester		Eighth Semester		
Title Number	Cr.	Title		Cr.
Bus. Cor. and ReportsB.A. 209	3	Bus. Adm. and Ec. Electives <sup>2</sup>		12
Bus. Adm. and Ec. Electives <sup>1</sup> .	12	Free Elective		3
Free Elective	3			
	10			16
	18			15

<sup>&</sup>lt;sup>1</sup> See footnote preceding page.

<sup>&</sup>lt;sup>2</sup> See footnote next page.

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

### BANKING AND FINANCE1

Title	2 1 2017	nber	Title	Nun	nber
Credits and Collections	.B.A.	220 225	Theory of Money	Ec	236

### ECONOMICS1

Title	Number	Title	Number	
Government and BusinessEd	c 212	Public Finance	Ec 236	6
Collective BargainingEd	c 223	Economic History	Ec 238	8
International TradeEd	c 225	Economic Analysis	Ec 241	ı
Economic GeographyEc		Consumer Economics		
Comparative Economic SystemsEc		Economic Investigation	Ec 240	6
Business CyclesEd	c 230	And the state of t		

### MANAGEMENT AND INDUSTRIAL RELATIONS<sup>1</sup>

Title	Nun	nhae	Title	Num	
The Control of the Co					
Industrial Management			Life Insurance		
Personnel Management	B.A.	236	Labor ProblemsE	C	223
Production Management	B.A.	237	Applied Psychology	sy	206
Office Management	B.A.	238	Psychological TestsP	sv	212
Sales Management	B.A.	239		-	
Property Insurance	B.A.	240			

### MARKETING1

Title	Number	Title	Number	
Salesmanship	B.A. 216	Property Insurance International Trade	B.A. Ec	240 225 245

## At least six courses in one of these groups 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	nber	Cr.	Title Nun	aber	Cr.	
Elementary Accounting Acct	101	3	Principles of AccountingAcct	102	3	
Biological ScienceBio		3	CompositionEng	102	3	
Survey of BusinessB.A.		3	Hist. of W. CivilizationHist	102	3	
CompositionEng		3	Physical SciencePhys	100	3	
Hist, of W. Civilization Hist	101	3	Intro. to Political ScienceP.S.	100	3	
Phys. Ed		0	Phys. Ed	102	0	
Pers. HygP.E.		1	Pers. HygP.E.	106	1	
Orientation		-			**********	
		16			16	

### SOPHOMORE YEAR

		-						
Third Semester	r			Fourth Semester				
Title	Num	ber	Cr.	Title Num	ber	Cr.		
Business Law	B.A.	231	3	Business LawB.A.	232	3		
Principles of Economics	Ec	101	3	Principles of EconomicsEc	102	3		
World Literature	Eng	151	4	World LiteratureEng	152	4		
Fundamentals of Math	Math	101	3	Fundamentals of MathMath	102	3		
Elective in Retailing			3	Elective in Retailing		3		
Phys. Ed		103	0	Phys. EdP.E.	104	0		
,			-	a SP and the Control of the Control				
			16			16		

### JUNIOR YEAR

	JUNIOR	LEM			
Fifth Semester		Sixth Semester			
Title Numb	er Cr.	Title	nber	Cr.	
Applied General StatisticsEc Fundamentals of SpeechEng Electives in Social Science Electives in Retailing or Com. & Fin	231 3 131 2 3	Electives in Retailing or	100)	3	
		Com. & Fin	222	3	
	17	Sevenile Semester		18	

### SENIOR YEAR

	_	2212026		
Seventh Semester		Eighth Semester		
Title Nu	mber	Cr.	Title Numb	her Cr.
Bus. Cor. and ReportsB.A. Intro. to SociologySoc Electives in Retailing or Com. & Fin Elec. in Com. & Fin. or			Electives in Retailing or Com. & Fin Free Electives	6 9
Soc. Sc.		3		

<sup>1</sup> See footnote page 66.

### BACHELOR OF SCIENCE IN COMMERCE AND FINANCE

Major in Secretarial Studies

### FRESHMAN YEAR

First Semester			Second Semester		
Title	nber	Cr.	Title Nun	nber	Cr.
Survey of BusinessB.A.	100	3	Biological ScienceBio	100	3
CompositionEng	101	3	CompositionEng	102	
Hist. of W. Civilization Hist	101	3	Hist. of W. Civilization Hist	102	
Fundamentals of MathMath		3	Fundamentals of MathMath		
Phys. EducationP.E.	101	0	Phys. EducationP.E.	102	
Pers. HygP.E.	101	1	Pers. Hyg	106	1
Elective		3-4	Elective		3
	1	6-17			16
Sometimes Prince Control of the Cont	SODI	IOM	ORE YEAR		
The Prince Princ	SOPI	TOM	ORE TEAR		
Third Semester			Fourth Semester		
Title	nber	Cr.	Title Nun	nber	Cr.
Elementary AccountingAcct	101	3	Principles of AccountingAcct	102	3
Advances ExpositionEng	105	3	Intro. to Political ScienceP.S.	100	3
Fundamentals of Speech Eng	131	2	Physical SciencePhys	100	3
Intro. to MusicMus	100	3	Shorthand and Typewriting S.S.	102	4
Shorthand and Typewriting S.S.	101	4	Free Elective		3
Phys. EdP.E.	103	0	Phys. EdP.E.	104	0
		15			16
		-5			10
	Ju	NIOI	R YEAR		
Fifth Semester			Sixth Semester		
Title Nun	nber	Cr.	Title	nber	Cr.
Principle of EconomicsEc	101	3	Principles of EconomicsEc	102	3
World LiteratureEng		4		152	
Advanced StenographyS.S.		4	Advanced Stenography S.S.	110	
Electives	1.011	6	Electives		6
					-
		17			17
	SE	NIOI	R YEAR		
Seventh Semester			Eighth Semester		
Title Nun	nber	Cr.		mber	Cr.
Bus. Cor. and ReportsB.A.	209	3	Office ManagementB.A.		1
Office Proc. & MachinesS.S.	205	4	Alternates:		
Electives		8-9	Medical Stenography S.S.	200	3
			Speech ReportingS.S.	203	3
AND ANDROOM			Free Electives		5
	BY		and Reports, Land. M. A. 202		-
	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 preparing to teach in secondary schools must major in one of the following teaching fields: English, Foreign Language, Mathematics, Science or Social Studies.

First Semester	FRESHMA	N YEAR Second Semester	
Title Nun	nber Cr.	Title Nu	nber Cr.
Composition Eng Science Mathematics Intro. to Political Science P.S. Elective. Phys. Ed. P.E. Pers. Hyg. P.E. Orientation	3-5 3-5	Composition .Eng Science Intro. to Sociology .Soc Elective Phys. Ed .P.E. Pers. Hyg .P.E.	102 3 3-6 100 3 102 0 106 1
Third Semester	<b>S</b> орномо	RE YEAR Fourth Semester	
Title Nun	aber Cr.	Title Nur.	nber Cr.
Intro. to Education Ed Fundamentals of Speech Eng World Literature Eng Electives P.E.	151 4	World Literature Eng General Psychology Psy Electives Phys. Ed P.E.	152 4 100 3
	15-16		15-16
Fifth Semester		YEAR Sixth Semester	
	aber Cr.		nber Cr.
	201 3	U.S. History since 1865Hist	108 3
	15-18	on eller year	15-18
Seventh Semester	SENIOR	YEAR Eighth Semester	
Title			nber Cr.
Intro. to PhilosophyPhil Principles & Methods of Sec. EdEd Child PsychologyPsy. Electives		Sec. School Curriculum. Ed Student Teaching . Ed Visual Education . Ed Elective	205 3 207 8 212 1 3
	15-17		15

Minimum requirement for this degree—129 credits.

Requirements for each major:

ENGLISH Bio 100; Ec 100; Eng 105, 201, 12 additional credits, Hist 101, 102; Lang 12 credits (in one language); Math 101, 102; Phys 100; Electives 15 credits.\*

FOREIGN LANGUAGE Bio 100; Ec 100; Eng 105, 201; Hist 101, 102; Math 101, 102; Lang 24 credits beyond 102 (in one language); Phys 100; Electives 9 to 15 credits.\*

MATHEMATICS Bio 100; Chem 101, 104; Ec 100; Hist 101, 102; Phys 111, 112; Electives 6 credits.\* Math 122, 125, 126, 240, 15 additional credits in 200-level courses.

SCIENCE BIO 101, 102; Ec 100; Chem 101, 102; Math 122 plus 3 credits; Phys 111, 112 or 150, 151, 152; (either Bio 111, 112, 201, 202; or Chem 121, 230, Math 125, 126); Electives 17 to 23 credits of which at least 8 must be in sciences other than Psychology.\*

SOCIAL STUDIES Bio 100; Ec 101, 102, 226; Hist 101, 102, 12 additional credits; Math 101, 102; Phys 100; P.S. 6 credits; Soc 6 credits; Electives 15 credits.\*

\*No more than 3 credits may be in Education.

### BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION

## First Semester FRESHMAN YEAR Second Semester

Title	Number	Cr.	Title Nu	nber	Cr.
CompositionEn	ig 101	3	CompositionEng		
Hist, of W. Civilization Hi	st 101	3	Hist. of W. Civilization Hist	102	3
Physical SciencePh			Biological ScienceBio	100	3
Intro. to Music			General PsychologyPsy	100	3
Intro. to Political Science P.		3	Intro. to SociologySoc	100	3
Phys. EdP.			Phys. EdP.E.	102	0
Pers. HygP.	E. 105		Pers. HygP.E.	106	1
Orientation					
					16
		16			10

## Third Semester SOPHOMORE YEAR Fourth Semester

Title N	Jumber	Cr.	Title Nun	mber	Cr.
World Literature En Child Psychology Psy	y 207	7 3	World Literature Eng Human Behavior	208	3
Intro. to Education Ed U.S. History to 1865 Hi Elective other than Education		-	Intro. to Philosophy Phil U.S. History since 1865 Hist Elective other than Education		
Phys. EdP.1	E. 103	3 0	Phys. EdP.E.	104	0
naturana? Atul?		16			16

### Fifth Semester JUNIOR YEAR Sixth Semester

Title Num	ber	Cr.	Title Nu	nber	Cr.
Basic ArtArt Fundamentals of MathMath	201	3 3	Economic Geography Ec Basic Art Art Fundamentals of Math Math Elective other than Education	102	3

## Seventh Semester SENIOR YEAR Eighth Semester

Title	Num	ber Cr.		Title 1	<i>Number</i>	Cr.
Student Teaching	Ed	208	4	Student TeachingEd		
Teaching of Reading		231	2	Visual EducationEd	212	1
Tchg. Elem. Social Stu		236	2	Teaching of ArithmeticEd	232	2
Principles of Elem. Ed.		237	2	Tchg. Elem. Sch. ScienceEd	239	2
Curriculum of Elem. So		238	2	Hlth. and P.E. in El. Sch Ed	243	3 2
Art in Elem. School		241	2			
Music in Elem. School		242	2			
	I Cherry 121	0 100	_			-
			-			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

First Semester		Second Semester			
Title	Number	Cr.	Title	aber (	Cr.
Survey of Business	A. 107 io 100 ng 101	3 3 3	Composition	102 100 100	3 3 3 3
Hist. of W. Civilization	E. 101	0	or Intro. to Political ScienceP.S. Phys. EdP.E.	100	3
		16	Pers. HygP.E.	-	16

#### SOPHOMORE YEAR

Third Semester				Fourth Semester			
	Title	mber	Cr.	Title Nun	nber	Cr.	
	Elementary AccountingAcc	101	3	Principles of AccountingAcct	102	3	
	Principles of EconomicsEco	101	3	Principles of Economics Econ	102	3	
	Intro. to Education Ed	101	3	U. S. Hist. since 1865Hist	108		
	U.SPa. History to 1865Hist	107	3	General PsychologyPsy	100	3	
	Shorthand and TypewritingS.S. or Elective	101	4	Shorthand and Typewriting S.S. or Elective	102	4	
	Phys. EdP.E.	103	0	Phys. EdP.E.	104	0	
			16			16	

### JUNIOR YEAR

Fifth Semester	Sixth Semester			
Title Number Cr.	Title Number Cr.			
Intermediate AccountingAcct 111 3 or Elective	Advanced AccountingAcct 112 3 or Elective			
Business Law	Business Law			
Educational Psychology Ed 201 3	Office ManagementB.A. 238 3			
English Elective Eng 151 or 153 4-3	English ElectiveEng 152 or 154 4-3			
Intermediate StenographyS.S. 109 4 or Elective	Advanced Stenography S.S. 110 4 or Elective			
STATE OF THE PARTY	Total, Occionera, Chineses China Maria Maria			
17-16	17-16			

	SE	ENIOR	YEAR		
Seventh Semester	Eighth Semester	Eighth Semester			
Title Nur.	nber	Cr.	Title	umber	Cr.
Bus. Corres. and ReportsB.A. Bus. Education and Methods	209	3	Visual EducationEd Sec. School CurriculumEd	212 205	
of Instruction in S.SS.S.	243	3	Student TeachingEd	207	8
Intro. to PhilosophyPhil Office Procedures and	100	3	Elective		3
MachinesS.S.	205	4			
Elective		3			
		16			15

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

Bookkeeping	12 semester hours
Commercial Law	6 semester hours
Commercial Arithmetic	3 semester hours
Office Practice	3 semester hours
Shorthand	9 semester hours
Typewriting	6 semester hours
Economics	6 semester hours
Business English	2 semester hours
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.

### FRESHMAN YEAR

First Semester		Second Semester			
Title Nun.	aber	Cr.	Title Num	ber	Cr.
Biological ScienceBio	100	3	CompositionEng	102	3
CompositionEng	101	3	Music TheoryMus	102	5
Fundamentals of Speech Eng	131	2	Clarinet Class and Mus		
Music Theory Mus	101	5	Methods or Ed	102	-
Clarinet Class and Mus			Brass Class and Mus	1	2
Methods or Ed	101	2	Methods Ed	104	
Brass Class and Mus	1/11/	2	App	-	
Methods Ed	103		Major Instrument Mus		1
App	9301		Band, Orchestra, Chorus		1/2
Major Instrument Mus		1	Physical SciencePhys	100	3
Band, Orchestra, Chorus		1/2	Elective		3
Phys. EdP.E.	101	Ō	Phys. Ed	102	0
Pers. HygP.E.	105	1	Pers. Hyg		1
Orientation	-			-	
	1	71/2		1	181/2

### SOPHOMORE YEAR

Third Semester			Fourth Semester		
Title Nun	aber	Cr.	Title Nun.	aber	Cr.
World Literature Eng	151	4	World Literature Eng	152	4
	103	5	Music Theory Mus	104	5
Music History Mus	109	3	Music History Mus	110	3
App		W. 1. T. 1.	App		
Major Instrument Mus		1	Major Instrument Mus		1
Intro. to Education Ed	101	3	Band, Orchestra, Chorus		1/2
Band, Orchestra, Chorus		1/2	General Psychology Psy	100	3
Phys. EdP.E.	103	0	Phys. Ed	104	0
		16½		- 1	161/2

### JUNIOR YEAR

Fifth Semest	er		Sixth Semester			
Title	Number	Cr.	Title Num	ber	Cr.	
Educational Psychology U.S. and Pa. Hist. to 1865			U.S. History since 1865Hist	108	3	
	Mus	SPIZET	Brass Class Methods Ed	106	2	
Woodwind Class Methods	Mus		Conducting (Choral) Ed	110	2	
Conducting (Instrumental)	Mus 109	2	Violin Class and Methods Ed	112	2	
Violin Class and Methods	. Ed 111	2	Major Instrument Mus		1	
Major Instrument	. Mus	1	Band, Orchestra, Chorus Elective		1/2	
Band, Orchestra, Chorus		3	Elective			
		16½			161/2	

### SENIOR YEAR

Seventh Semester			Eighth Semester		
Title Nu	mber	Cr.	Title Nun	2ber	Cr.
Principles of Secondary Ed	204		Visual EducationEd	212	1
Education or Principles of ElementaryEd	237	3	OrchestrationMus Mus	216	2
Education			Voice Class and Methods Ed	108	2
Instrumentation Mus Mus	215	2	String Instrument Class Mus and Methods Ed	114	2
Voice Class and Methods Ed	107	2	Observation and Practice Mus		
String Instrument Class and Mus			Treaching Ed	204	4
Methods Ed	113	2	App		
Observation and Practice Mus			Major Instrument Mus		1
Teaching Ed	203	4	Band, Orchestra, Chorus		1/2
App			Elective		3
Major Instrument Mu	S	1			
Band, Orchestra, Chorus		1/2			
				F	-
	200 75	141/2		001	15/2

## 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.¹ 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.

Wilkes College is cooperating with Lebanon Valley College and Albright College in offering a degree in Nursing Education to registered nurses in the areas of Lebanon and Reading. Academic credits earned at Lebanon Valley College or at Albright College may be credited toward the B.S. degree in Nursing Education from Wilkes College.

To satisfy the residence requirements for graduation from Wilkes, the candidate may take one-half of the work at Lebanon Valley College or Albright College and the other one-half on the campus at Wilkes.

Students participating in this cooperative program should seek assistance from the chairman of the Nursing Education department at Wilkes in planning their curriculum.

### JUNIOR YEAR

First Semester		Second Semester			
Title Num  Composition Eng Hist. of West. Civ. <sup>2</sup> Hist Foundations of Nursing N.E. Physical Science Phys General Psychology Psy Sociology Soc	101	3 3 2 3 3	Mary 1	102	3 3 3 3 2
	C-		V		

	5	ENIO	R YEAR		
Third Semester	Fourth Semester				
Educational Measurements Ed	nber 202	2	Title Nun Guidance Ed	214	Cr.
Visual EducationEd World LiteratureEng Prin. and Meth. in N.EN.E.	151	-	Fundamentals of SpeechEng Trends in Nursing Ed. N.F.	131	2
Electives <sup>3</sup>	107	6-7	Field Experience N.E. Electives <sup>3</sup>	112	5-6
	1:	5-16		14	5_16

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.

## 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.

the choice of additional c	ourse	es.		oug	
	FRI	ESHM	IAN YEAR		
First Semester			Second Semester		
Title Na	umber	Cr.	PRIL 2	mber	Cr
Basic Art. Art Composition. Eng Hist. of West. Civ. Hist Fund. of Math Mat Phys. Science Phys Phys. Ed. P.E. Pers. Hygiene P.E. Orientation	h 101 s 100 101	3 3 3 3 0 1	Basic Art Art Composition . Eng Bio. Science . Bio Hist of West. Civ Hist Fund. of Math	102 102 100	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		16			16
771: 16	SOPI	HOMO	ORE YEAR		
Third Semester			Fourth Semester		
	mber	Cr.	Title Nun	aber	Cr.
Applied Art.         Art           Hist. of Art.         Art           Intro. to Ed.         Ed           World Lit.         Eng           Intro. to Political Science         P.S.           Phys. Ed.         P.E.	103 111 101 151 100 103	3 3 4 3 0	Applied Art         Art           Hist. of Art         Art           World Lit         Eng           General Psych         Psych           Intro. to Soc         Soc           Phys. Ed         P.E.	104 112 152 100 100 104	3 4 3 3 0
		16			16
	Ju	NIOR	YEAR		
Fifth Semester	100		Sixth Semester		
Title Nun	nber	Cr.	Title Num	ber	Cr.
Fine Arts	215 241 100 201 107	4 2 3 3 3 15	Fine Arts	216 242 108 207	4 2 3 3 3 3
· Charles and Charles and Charles	SEI	NIOR	YEAR		
Seventh Semester			Eighth Semester		
Title Num	ber	Cr.	Title Numb		Cr.
Arts of PresentationArt Prin. and Meth. of	243 204 131 100 100	3 2 3 3 3 3	Student Teaching. Ed Visual Ed. Ed Teaching of Art. Ed Elective*	210 212 221	8 1 3 3

<sup>\*</sup>Nine hours of electives must be taken in three different fields.

<sup>&</sup>lt;sup>2</sup> Hist. 107 and 108 may be substituted for Hist. 101 and 102.

<sup>&</sup>lt;sup>3</sup> Electives may be selected from academic subjects (Economics, English, Political Science, Psychology, Sociology) or Nursing Education courses with approval of the adviser.

### 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, Pennship, Massachusetts Institute of Technology, Pennship, Pennship, Massachusetts Institute of Technology, Pennship, Pennship, Pennship, Pennship, P sylvania State University, 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 appeals to those genuinely interested in mathematics, the natural sciences and in their application.

The following general distinctions may be made between the various fields: research appeals most 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.

Students planning to major in Engineering should take courses in high school that prepare them to start the college mathematics program with the course in Analytic Geometry. However, since not all students are prepared for this course, the program may be started with the course in College Algebra and Trigonometry. Students doing the latter should plan to finish Differential Equations and Infinite Series by the end of the fourth semester. This may be accomplished in several ways:

- 1. Math. 107 and Math. 109 may be taken in the summer session preceding the Freshman year.
- After completion of Math. 105 and Math. 122 in the Freshman year, Math. 125 may be taken in the summer session between the Freshman and Sophomore years.

### FRESHMAN YEAR

### (COMMON TO ALL ENGINEERING COURSES)

First Semester  Title  Number  Chem 101  Engineering and Orientation Problems  Engi 100  Engineering Drawing and Des. Geometry  Engi 105  Composition  Mathematics  Math 122  Phys. Ed. P.E. 101  Pers. Hyg.  Orientation	Alternates:
1, 10	18-20

### 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 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

#### SOPHOMORE VEAR

	MOL	DRE YEAR*	
Third Semester  Title Number  Inor. Quant. Analysis Chem 121  Principles of Economics Ec 101  Fundamentals of Speech Eng. 1344	Cr. 4 3	Fourth Semester  Title Number  Stoichiometry	4
Calculus II         Math 12c           General Physics         Phys 15I           Phys. Ed.         P.E. 103	4 4 0	Mechanics II, Dynamics         M.E. 212           General Physics         Phys 152           Phys. Ed.         P.E. 104	3 4 0
	18	104	17

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

<sup>&</sup>lt;sup>2</sup> For freshman year see above.

### 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 YEAR<sup>1</sup>

Third Semester	Fourth Semester					
Title Num	ber	Cr.	Title	Num	ber	Cr.
Plane Surveying	103	3	Route Surveying	C.E.	104	4
Principles of EconomicsEc	101	3	Mathematics	Math	240	4
Fundamentals of Speech Eng	134	3	Mechanics I, Statics	M.E.	211	3
Calculus II		4	Mechanics II, Dynamics	M.E.	212	3
General Physics IIPhys	151	4	General Physics III	hys	152	4
Phys. Ed		0	Phys. Ed			0
		***************************************				-
		17				18

### 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 Nun	nber	Cr.	Title Num	aber	Cr.			
Plane Surveying	103	3	MathematicsMath	240	4			
Principles of EconomicsEc	101	3	KinematicsM.E.	206	3			
Fundamentals of SpeechEng	134	3	Mechanics I, StaticsM.E.	211	3			
Calculus II Math	126	4	Mechanics II, DynamicsM.E.	212	3			
General Physics IIPhys	151	4	General Physics IIIPhys	152	4			
Phys. EdP.É.		0	Phys. Ed					
		17			17			

<sup>1</sup> For freshman year see page 79.

### 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

Third Semester			Fourth Semester				
Title Num	ber	Cr.	Title Num	ber	Cr.		
	101	3	Principles of EconomicsEc	102	3		
Fundamentals of SpeechEng	134	3	MathematicsMath	240	4		
Calculus II Math	126	4	Mechanics I, StaticsM.E.	211	3		
General Physics IIPhys	151	. 4	Mechanics II, DynamicsM.E.	212	3		
General Psychology Psy	100	3	General Physics IIIPhys	152	4		
Phys. Ed	103	0	Phys. EdP.E.	104	0		
in the second		17			17		

### 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.

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.

### SOPHOMORE YEAR1

Third Semester		Fourth Semester			
Title Num	ber	Cr.	Title Num		Cr.
Plane Surveying C.E.	103	3	MathematicsMath	240	4
Principles of EconomicsEc	101	3	KinematicsM.E.	206	3
Fundamentals of SpeechEng		3	Mechanics I, StaticsM.E.	211	3
Calculus II	126	4	Mechanics II, DynamicsM.E.	212	3
General Physics II	151	4	General Physics IIIPhys	152	4
Phys. Ed	103	0	Phys. EdP.E.	104	0
Inys. Edi					
		17			17

<sup>&</sup>lt;sup>1</sup> For freshman year see page 79.

# Terminal Programs

### MEDICAL TECHNOLOGY

The Registry of Medical Technologists of the American Society of Clinical Pathologists has established definite standards for qualification as a medical technologist. The minimum requirements to meet these standards are a two-year college program and twelve months of technical training in an approved school of medical technology.

The following curriculum meets the pre-technical training requirements demanded by the Registry. Since requirements for admission to approved schools of medical technology vary, the student is urged to make inquiries concerning technical training during the Freshman year.

#### FRESHMAN YEAR

First Sem	ester		Second Semester		
Title	Number	Cr.	Title Nun	nber	Cr.
General Zoology	Bio 101	5	General ZoologyBio	102	4
General Inorganic Chem	Chem 101	4	Inorganic Chem. and		
Composition	Eng 101	3	Qualitative AnalChen	102	6
College Algebra	Math 107	3	CompositionEng	102	3
Phys. Ed	P.E. 101	1	Elective		3
Pers. Hyg		0	Phys. Ed	102	0
Orientation			Pers. HygP.E.	106	1
		16			17
	SOPE	юмо	RE YEAR		
Third Sem	ester		Fourth Semester		
Title	Number	Cr.	Title Nun	nber	Cr.
Bacteriology Inorganic Quantitative	Bio 211	4	BacteriologyBio Organic ChemChem	212	4 4
Anal	Chem 121	4	Electives1		7-8
Electives1		7-8	Phys. Ed	104	0
Phys. Ed		0	sciences and in concessor an		
Marie Print State of	- 1			-	-

1 At least one elective	each semester	must be in the	e humanities or social s	ciences.

15-16

### 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 Na	umber	Cr.	Title Num	ber	Cr.	
General ZoologyBio General Inorganic ChemChe			General ZoologyBio Inorganic Chem. and	102	4	
CompositionEng			Qualitative AnalysisChem	102	6	
College Algebra			CompositionEng	102	3	
Phys. Ed			Trigonometry Math		3	
Pers. HygP.E.			Phys. EdP.E.		0	
Orientation			Pers. HygP.E.		1	
		-			-	
		15			16	

### SOPHOMORE YEAR

Third Semester			Fourth Semester			
Title Num	ber	Cr.	Title Nun	aber	Cr.	
Histology Bio	221	3	EmbryologyBio	202	3	
Inorganic Quantitative Anal Chem		4	Organic Chemistry Chem		4	
Introductory PhysicsPhys Alternates:		4	Introductory PhysicsPhys Alternates:		4	
World LiteratureEng	151	4	World LiteratureEng	152	4	
Hist. of West. CivHist		3	Hist. of West. CivHist		3	
	103	0	Phys. Ed		0	
	1	4-15		14	1-15	

### PRE-DENTAL

### (Three years)

## FRESHMAN YEAR

First Semeste	r		Second Semester	
Title  General Zoology General Inorganic Chem. Composition College Algebra Phys. Ed. Pers. Hyg. Orientation	Chem 101 Eng 101 Math 107	4 3 3 0 1	Title Number  General Zoology Bio 102  Inorganic Chem. and Qualitative Analysis Chem 102  Composition Eng 102  Trigonometry Math 109  Phys. Ed. P.E. 102  Pers. Hyg. P.E. 106	6 3 3
		16		17

### SOPHOMORE YEAR

Third Semester	Fourth Semester				
Title Num  Basic Art	101 201 121	Cr. 3 4 4 4 0	Title Num  Basic Art Art  Embryology Bio  Organic Chemistry Chem  World Literature Eng  Phys. Ed. P.E	102 202 230	4 4
		15			10

### JUNIOR YEAR

Fifth Semester			Sixth Semester			
Title Num  Bacteriology Bio Histology Bio Organic Chemistry Chem Introductory Physics Phys	211 221	3	T': 1.	222	4 3	

### 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			
- 11111	nber	Cr.	Title Nun	nber	Cr.
Survey of Business B.A. Composition Eng	100	3	Biological ScienceBio	100	3
His of W. Civilianian Tri	101	3	CompositionEng	102	3
Hist. of W. Civilization Hist		3	rundamentals of SpeechEng	131	2
Shorthand and TypewritingS.S.	101	4	Hist. of W. CivilizationHist	102	3
Phys. EdP.E.	101	0	Shorthand and TypewritingS.S.	102	4
Pers. HygP.E.	105	1	Phys. Ed	102	0
			Pers. HygP.E.	106	1
		14			16

### SOPHOMORE YEAR

Third Semester		Fourth Semester			
Title Nun	2001	Cr.	Title Nun	nber	Cr.
Business MathematicsB.A.	107	3	Office ManagementB.A.	238	3
Business LawB.A.	231	3	Intro. to EconomicsEcon	100	3
Intermediate StenographyS.S.	109	4	Advanced StenographyS.S.	110	4
Office Pro. and MachinesS.S.	205	4	Secretarial AccountingS.S.	120	3
Elective		3	Elective		3
Phys. EdP.E.	103	0	Phys. EdP.E.	104	0
		17			10

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; Assistant Professors Curtis, P. Werner; Instructors Baron, Krohn, Strassman, Capin.

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

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.

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 P. Werner 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. CAPIN

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

THE STAF

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

MR. CAPIN

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 CAPIN

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

THE STAF

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

Prerequisite: Acct. 112.

ACCT. 252. ACCOUNTING INTERNSHIP—Six credits

This course provides a minimum of 240 hours of accounting in the office of a Certified Public Accountant.<sup>1</sup>

### ART

Assistant Professor O'Toole, chairman; Assistant Professor Colson.

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. 77.

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. O'Toole

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

MR. O'TOOLE

The designed or built-up letter. Basic strokes, upper and lower cases of Gothic, Roman, italic, and script letters. Combining designed letter-

<sup>1</sup> Or the equivalent.

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 111. HISTORY OF ART—Three hours. MR. COLSON

History of art from the prehistoric period through the Gothic era.

ART 112. HISTORY OF ART—Three hours. MR. COLSON

History of art from the Renaissance to the present day.

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'TOOLE

MIK, O TOOLE

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 repro-

duction; 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 semester 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'Too

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 Mr. O'TOOLE

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

Class, three hours a week.

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; Associate Professor Cohen; Associate Professor Michelini; Assistant Professor Namisniak; Instructor Freeman.

BIO. 100. BIOLOGICAL SCIENCE—Three credits

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.

BIO. 101-102. GENERAL ZOOLOGY—Nine credits Mr. REIF

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. 204. MICROTECHNIQUE—Two credits MR. MICHELINI

Biological technique is a laboratory course involving the preparation of tissues and organs for study. This course is given in conjunction with the laboratory portion of Embryology, Bio. 202, for those students who do not take Embryology. Laboratory, six hours a week.

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. 221. HISTOLOGY—Four credits

THE STAFF

Histology is the study of normal tissues and the arrangement of tissues to form organs and organ systems. Material is restricted to vertebrate tissues. Class two hours a week; laboratory six hours a week. Prerequisite: through Bio. 202 or permission of instructor.

BIO. 222. GENETICS—Three credits

MR. MICHELINI

Genetics is the study of the inheritance of normal characters and the variation of those characters in plants and animals. The laboratory work concerns primarily studies of inheritance in the fruit fly. Class, two hours a week; laboratory, three hours a week. Prerequisite: through Bio. 221 or permission of instructor.

Bio. 231. Physiology—Four credits

MR. MICHELINI

Physiology is the study of the physical and chemical activities characteristic of all living organisms. Laboratory work includes experiments involving living forms. Class, two hours a week; laboratory, six hours

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a week. Prerequisite: through Bio. 222, Chem. 230, and Phys. 112, or permission of instructor.

BIO. 232. ECOLOGY—Three credits

MR. REIF

Ecology is the study of the relationship between organisms, singly and collectively, and their environments, including the biotic and physical factors of the environments. Class, two hours a week; laboratory and field trips, three hours a week. Prerequisite: through Bio. 231 or permission of instructor.

BIO. 262. HISTORY OF BIOLOGY—One credit

THE STAFF

A study of the history of biology is designed as a correlating effort in the field of biology through an historical approach. It is limited to senior students majoring in biology. Class, one hour a week. Prerequisite: permission of instructor.

BIO. 271. RESEARCH PROJECT—One credit

THE STAFF

Credit for this may be given only in the eighth semester. Work may begin after satisfactory completion of the fourth semester. Prerequisite: permission of instructor.

### BUSINESS ADMINISTRATION

Professor Rosenberg, chairman; Assistant Professors Chiang, Elliot, Farrar, R. Werner; Instructors Bacon, Capin, Casper, Chmiola, Johns, Krohn, Cappellini, Roberts, Bernstein.

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

THE ST.

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 Mr. Hoover

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

Mr. Hoover

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

MRS. ROBERTS

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

Prerequisite: Eng. 102.

B.A. 216. ADVERTISING—Three credits

THE STAFF

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

THE STAFF

Problems and policies of railroads, buses, trucks, 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 credits Mr. HOTSON

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 credits

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 credits

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.

<sup>&</sup>lt;sup>1</sup> Credit will not be given if credit for Ret. 207 has been received.

B.A. 225. CORPORATION FINANCE—Three credits MR. CHIANG

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 credits M

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.

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

Three credits Mr. Casper, Mr. Cappellini, Mr. Krohn

The foundation for all subjects in the field of business law. The nature, classification and sources of law. An introduction to the structure and functioning of the Federal and State Courts as agencies for enforcement of legal rights. A brief resume of the law of Torts and Crimes with reference to business problems. Examination of the essential elements of a contract under both the common law and the Uniform Commercial Code, the nature of contract rights, discharge of contracts and remedies for their breach.

Prerequisite: Ec 102 or approval of instructor.

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

Mr. Casper, Mr. Cappellini, 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 Code

Prerequisite: B.A. 231.

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

Three credits

Mr. Krohn

The principles of law governing partnerships and corporations, with emphasis on the historical development of business enterprises. The

law with respect to the formation, operation, internal relationships and dissolution of partnerships and corporations with particular reference to their dependency upon the law of agency. Rights and duties of the partnership and corporate enterprise with respect to the government, the owners, and the public. Advantages and disadvantages of these forms of business activity.

Prerequisite: B.A. 231.

B.A. 234. Business Law—Property—Three credits Mr. Krohn
The law of real property, nature and types of interests in land. A
discussion of deeds and their prerequisites. The rights and duties of
the landowner to the public. Rights of the government versus rights of
the landowner. The landlord-tenant relationship, the mortgagormortgagee relationship. Business crimes (crimes affecting property).
The protection of personal and business property, tangible and intangible.

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

B.A. 235. INDUSTRIAL MANAGEMENT—Three credits Mr. BACON

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. Bacon

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

Prerequisite: Ec. 223 or approval of instructor.

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

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. BACON

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. FARRAR

This course is a study of the fundamentals of fine coursely and marine.

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 Mr. Capin

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; Instructors Bohning, Freeman.

### 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.
- 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 Mr. Bohning, Miss Bone, Mr. Salley

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.

CHEM. 104. GENERAL INORGANIC CHEMISTRY—Four credits

Mr. Bohning, Miss Bone, Mr. Salley

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

MR. SALLEY

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, MR. BOHNING

An introduction to the chemistry of carbon compounds. The prepara-

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tion 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.

Prerequisite: Chem. 230.

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 Chiang, Elliot, Farrar, R. Werner; Instructors Bacon, Hotson, Bernstein, Williamson.

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 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.

Ec. 101. Principles of Economics—Three credits The Staff

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 micro-economic foundation concentrated on such units as the firm, the industry, and the consumer.

Prerequisite: Ec. 101.

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Ec. 201. Money and Banking—Three credits

MR. CHIANG, MR. R. 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. CHIANG, MR. R. 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 Mr. Farrar

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 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 Mr. Elliot

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 or approval of instructor.

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

MR. ELLIOT

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

MR. FARRAR

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.

Ec. 230. Business Cycles—Three credits Mr. Farrar 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.

Ec. 232. Economic Statistics—Three credits Mr. Rosenberg

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. R. 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.

Ec. 238. Economic History—Three credits

MR. R. WERNER, MR. HOTSON

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

Mr. Hotson, Mr. Farrar, Mr. Chiang

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

MR. ELLIOT, MR. R. WERNER

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 The Staff

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 bibli-

ographies, and (3) details of good form as to content, table, body, footnotes, and bibliography.

Prerequisite: approval of instructor.

#### **EDUCATION**

Professor Hammer, chairman; Associate Professors Jessee, Gasbarro, Smith; Assistant Professor Colson; Instructors Chwalek, Pinkowski, Roderick.

ED. 101. INTRODUCTION TO EDUCATION—Three credits THE STAFF

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, the pupils, 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.

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.

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

Two credits

Miss Jessee

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
THE STAFF

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 Ti

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 Miss Smith

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: Ed. 204. Fifteen hours of credit at Wilkes, permission of the instructor.

ED. 208. STUDENT TEACHING IN THE ELEMENTARY SCHOOL (OBSERVATION—Four credits

MISS SMITH

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

MISS SMITH

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 Miss Smith

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 THE STAFF Consideration of the place of extracurricular activities in the education of the child; the organization of extracurricular activities; the tend-

ency to bring them into the school curriculum; their place in the guidance program.

Prerequisite: Ed. 101, 201.

ED. 212. VISUAL EDUCATION—One credit

MISS JESSEE

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. CHWALEK

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

MR. COLSON

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.

Prerequisite: Ed. 101, 201.

ED. 231. THE TEACHING OF READING—Two credits MISS RODERICK

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

MISS RODERICK

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

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

Prerequisite: Ed. 101, 201.

ED. 236. TEACHING THE ELEMENTARY SOCIAL STUDIES—Two credits

MISS RODERICK

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

MISS RODERICK

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

Two credits

MISS RODERICK

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

MISS RODERICK

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

MR. COLSON

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. Gasbarro

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
Miss Roderick

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—

One to 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  $Two\ credits$ 

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**

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

ENGI. 100. ENGINEERING PROBLEMS—Two credits

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. SALLEY

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. MAY

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. MAY

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

MR. MAY

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**

Professors Davies, Chairman; Professor Kruger; Associate Professors Bennett and Chapman; Assistant Professor Groh; Instructors Budd, Bush, Fiester, Gutin, Miller, Roberts, 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, 106, 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.

Prerequisite: Eng. 101.

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, Mr. Rizzo A writing course. Training in the selection and use of materials for the short story.

Prerequisite: Eng. 102 and permission of instructor.

papers address the class and answer questions.

#### Journalism

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

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. BUSH 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.

Eng. 124. Feature Writing—Three credits Mr. Bush 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.

Prerequisite: Eng. 102.

### Language and Literature

Eng. 151. Western World Literature—Four credits

Mr. Davies, Mr. Chapman, Mr. Bennett, Mr. Gutin
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. Chapman, Mr. Bennett, Mr. Gutin
Continuation of survey, bringing the study of literature down to the
present time.

Prerequisite: Eng. 151.

Eng. 153. American Literature—Three credits

MR. KRUGER, MR. GUTIN Survey of American literature from the beginning to the Civil War. Prerequisite: Eng. 102.

ENG. 154. AMERICAN LITERATURE—Three credits

MR. KRUGER, MR. GUTIN 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, MR. GUTIN

A course designed to familiarize the student with the best books of the

twentieth century.

Eng. 201. History of the English Language—Three credits

IR. CHAPMAN

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

Prerequisite: Eng. 152.

Prerequisite: Eng. 102.

ENG. 205. CHAUCER—Three credits

MR. CHAPMAN

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.

MR. BENNETT

Prerequisite: Eng. 152.

Eng. 216. Seventeenth Century—Three credits Mr. Chapman A study of the non-dramatic literature of the period with special emphasis on the poetry of John Milton.

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

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 Mr. Davies 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.

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. DAVIE

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.

Prerequisite: Eng. 152.

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

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.

#### 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 readings 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.

THE STAFF

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 in-

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 to acquire fluency in speaking French.

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

Study of classicism and the outstanding writers of the seventeenth

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.

Trerequisite. 11, 201-202 of the equivalent.

Fr. 206. French Literature of the Nineteenth Century

Three credits

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

Prerequisite: Fr. 201-202 or the equivalent.

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Fr. 208. CONTEMPORARY FRENCH DRAMA—Three creatts

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

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.

## DESCRIPTION OF COURSES - Page 119

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

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. DISQUE

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.

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Sp. 103. INTERMEDIATE SPANISH—Three credits

Review of grammar; practice in oral and written Spanish; selected readings from modern Spanish prose.

Prerequisite: Sp. 102 or equivalent.

Sp. 104. Intermediate Spanish—Three credits

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

Prerequisite: Sp. 103 or equivalent.

Sp. 105. Commercial Spanish—Three credits

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 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

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

Miss Dworski

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.

Study of representative works of nineteenth century Spanish dra 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.

### GENERAL SCIENCE

Bio. 100. See page 92.

Prerequisite: Sp. 201-202 or equivalent.

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 135.

### HISTORY

Professor Thatcher, chairman; Associate Professor Mui; Assistant Professor Kaslas; Instructors Connolly, Hehn, Hughes, 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. 243. THE BRITISH EMPIRE AND COMMONWEALTH
OF NATIONS—Three credits
MR. MUI

A study of the evolution of the British Commonwealth of Nations, the expansion of British rule in India, and the growth of the British dependent empire, with emphasis on the imperial and foreign policies of Great Britain after the American Revolution.

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

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**

Associate Professor T. R. Richards, chairman; Professor Kostenbauder; Assistant Professor Wasileski; Instructors B. May, Morgan, Salsburg, West.

The major in mathematics is outlined on page 60.

MATH. 99. ALGEBRA REVIEW—No credit

Secondary algebra, extending through simultaneous quadratic equations.

Three hours a week.

MATH. 100. SAME AS PHYS. 101—See page 135.

MATH. 101. FUNDAMENTALS OF MATHEMATICS—Three credits

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

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 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 identi-

ties, 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-

tary 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

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, partial derivatives, multiple integrals.

Prerequisite: Math. 125.

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

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, operations, relations, groups, integral domains, fields; particular illustration of the foregoing by an axiomatic development of the real and complex number systems.

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.

MR. WASILESKI MATH. 220. COLLEGE GEOMETRY—Three credits

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

Prerequisite: Math. 126.

MATH. 240. DIFFERENTIAL EQUATIONS AND INFINITE
SERIES—Four credits
THE STAFF

First order equations, linear equations, applications, solution by successive approximation, systems of differential equations, infinite series, power series solution of differential equations.

Prerequisite: Math. 126.

MATH. 251. ADVANCED CALCULUS I—Three credits

MR. KOSTENBAUDER

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 II—Three credits

MR. KOSTENBAUDER

A continuation of Math. 251. Prerequisite: Math. 251.

### MUSIC

Associate Professor Detroy, chairman; Assistant Professor Gasbarro; Instructors Balshaw, Friedmann, A. Liva, F. Liva, Waller, Chapline, Weed.

Liberal Arts students wishing to major in music will follow the program outlined on page 61.

#### APPLIED MUSIC

Individual and group instruction is offered at all levels of difficulty to students in piano, pipe organ, voice, and orchestral and band in-

struments. 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

THE STAFF

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. Weed

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 civi-

lization 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

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 MR. CHAPLINE

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. WEED

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

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

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.

Music 215. Instrumentation—Two credits Mr. Gasbarro

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 De-

Music 216. Orchestra and Band Arranging—Two credits

Mr. Gasbarro

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 exam-

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 Education1

Mus. Ed. 101-102. Clarinet Class and Methods—Two credits per MR. GASBARRO 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 Methods—Two credits per MR. WEED

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 MR. GASBARRO

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. WEED

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.

<sup>&</sup>lt;sup>1</sup>There is an instrument rental fee of \$10.00 per semester for music education

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

MR. Chapline

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 The Staff

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.

Mus. Ed. 111-112. Violin Class and Methods—Two credits per semester

Mr. Friedmann

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

No prerequisite.

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

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 Stae

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

THE STAFF

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

Associate Professor Jessee, chairman; Instructors Jackson, Conboy, Dieffenbach, Klein, Miller, Seeherman, Speicher.

Enrollment in all of the following courses, with the exceptions of N.E. 101 and 104 is limited to graduate nurses.

N.E. 101. FOUNDATIONS OF NURSING—Two credits

A general survey of the history of nursing with emphasis upon the

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—Two credits

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.

Prerequisite: Ed. Psychology.

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

Four credits

Miss Jessee

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

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

MISS CONBOY

Advanced study of nursing principles and techniques as applied to the expert nursing care of medical and 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

MR. SPEICHER OF 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

MISS JACKSON

The identification and discussion of the problems involved in the administration of school health programs.

### PHILOSOPHY—RELIGION

Professor Vujica, chairman; Assistant Professor Parmenter; Instructors Schindler and Friedlander.

A major in the combined fields of philosophy and religion consists of twenty-four hours in philosophy and religion. Phil. 100 and Rel. 100 will not count toward the major. Prerequisites are determined by the Chairman on an individual basis.

#### Philosophy

PHIL. 100. INTRODUCTION TO PHILOSOPHY—Three credits THE STAFF An introduction to the nature and function of philosophy, and its relations to some of the other fields of human interest. The approach is

through such typical problems as: the nature and origin of life, the relation of mind and body, freedom of the will, the theories of right and wrong, arguments for the existence of God.

PHIL. 103. LOGIC—Three credits

MR. VUJICA

Elementary principles and techniques of clear and sound thinking. General rules of inductive and deductive reasoning; recognition of fallacies; the nature of scientific knowledge, its methods, its aims, its presuppositions.

PHIL. 105. ETHICS—Three credits

MR. PARMENTER

A critical study of standards for judging the rightness or wrongness of conduct. An inquiry into what men *ought* to do. A survey of representative ethical theories with the emphasis on their application to currently controversial issues in the social, economic, and political fields.

PHIL. 204. PHILOSOPHY OF RELIGION—Three credits MR. VUJICA An examination of various problems that arise when religion is made the object of philosophic reflection. The nature and forms of religious experience; the relation of faith and reason; arguments for God's existence; the problem of evil; the argument for immortality.

PHIL. 205. AESTHETICS—Three credits

MR. PARMENTER

Analysis of the nature, standards and criteria of value in literature, painting, music, and other forms of arts; the meaning of aesthetic judgments and processes of appreciation. An examination of the objective qualities of those things which are found to be aesthetically effective.

PHIL. 206. SOCIAL AND POLITICAL PHILOSOPHIES—Three credits

MR. PARMENTER

Social and political institutions as seen by such classical critics as Plato, Aristotle, Hobbes, Hume, Burke, Bentham and others. Special attention to analysis of the problems of censorship, relation of church and state, prejudice, aims and methods of democratic institutions.

PHIL. 207. PHILOSOPHIES OF HISTORY—Three credits MR. VUJICA A study of the various interpretations of history. The views of Augustine, Vico, Rousseau, Kant, Hegel, Marx, Comte, Spengler, Schweitzer, Toynbee, Sorokin, Niebuhr and others on the meaning of historical events.

PHIL. 212. HISTORY OF MODERN PHILOSOPHIES—Three credits

MR. VUJICA

The most important men and movements in philosophy from the renaissance through the end of the nineteenth century. Continental Rationalism (Descartes, Spinoza, Leibnitz); British Empiricism (Locke,

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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. PARMENTER

Major trends and problems in 20th century philosophy, as treated by such thinkers as Peirce, James, Bergson, Dewey, Russell, Wittgenstein, Maritain and others. Consideration of Neo-Positivism and Existentialism; special attention to problems of knowledge and value.

#### Religion

REL. 100. MAN'S RELIGION—Three credits THE STAFF

Nature and origin of religion. Sacred literatures, beliefs, and rituals of the great historical and living faiths. A comparison of the more 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

MR. VUJICA

The course aims at giving the student an insight into the books of the Old Testament and the range and depth of the religious heritage received from Israel. The biblical message is studied in its dynamic context of the culture, geography and history of the ancient Near East.

REL. 202. THE TEACHINGS OF THE GREAT HEBREW PROPHETS

Three credits

MR. FRIEDLANDER

A study of the Prophetic and Wisdom literature. Emphasis is centered around the prohetic 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. Villica

An examination of the form and content of the books of the New Testament as literary products and as records of the faith that gave rise to the Christian Church. The 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

Assistant Professor Reese, chairman; Instructor Zoolkowski.

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 games.

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 Education<sup>1</sup>

THE STAFF

This course is designed to promote physical well being 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

THE STAFE

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**

Professor Hall, chairman; Assistant Professors Heltzel, Thomas; Instructor Krutchkoff.

PHYS. 100. PHYSICAL SCIENCE—Three credits Mr. Krutchkoff

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 and discussion three hours a week.

PHYS. 101. BASIC PHYSICAL PROBLEMS—One credit THE STAFF

An introduction to the proper procedure for problem solution, both

<sup>&</sup>lt;sup>1</sup>Class instruction in personal hygiene is required of all students, even those excused by physicians from taking physical education.

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mathematical and graphical. Slide rule practice, graphs, and lettering. Practicum 3 hours a week.

Phys. 111-112. Introductory Physics—Four credits The Staff 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 instructor.

PHYS. 150. GENERAL PHYSICS I—Four credits MR. HALL AND STAFF A thorough grounding in the physical laws of nature. Mechanics. 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; Assistant Professor Kaslas; Instructors Hibbard, Welsh, and Hehn.

A major in political science consists of twenty-four hours. All courses except P.S. 100 are acceptable toward the major.

P.S. 100. Introduction to Political Science—Three credits
The St.

This course is a broad, comprehensive introduction to political science. All the subdivisions of political science are presented simply and clearly and the interrelationships of these subdivisions are shown. These commonly recognized fields of political science are covered: Political theory, American government, comparative governments, public administration, political parties, pressure groups, public opinion, propaganda, international politics, international law, legal systems.

P.S. 200. American National Government Staff

A Study of the National Government of the United States presenting the historical background for each major policy area, the broad outlines of existing programs, the interest groups and organizations most immediately concerned, the values that are in conflict, and the interrelations between process and policy.

Prerequisite: P.S. 100.

P.S. 201. CONSTITUTIONAL LAW Mr. HIBBARD

A course intended to show the growth of the American Constitution particularly United States governmental structure and relationships with special emphasis on change in the Constitution, the three branches of government, the Federal System, and the powers of the National Government. The case study method is used.

Prerequisite: P.S. 100.

Prerequisite: P.S. 100.

P.S. 202. CONSTITUTIONAL LAW Mr. MAILEY
A course intended to show the growth of the American Constitution

particularly the relations between the individual and his government with special emphasis on liberty against government, protection of civil rights, citizenship and its privileges. The case study method is used.

Prerequisite: P.S. 100.

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.

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. 100 and Soc. 100.

P.S. 205. STATE GOVERNMENT—Three credits

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. 100.

P.S. 206. MUNICIPAL GOVERNMENT—Three credits

MR. MAILEY

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. 100.

P.S. 207. Public Administration—Three credits

MR. HIBBARD

A study of the organization, activity, problems, and the recruitment policy of the public service.

Prerequisite: P.S. 100.

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. 100.

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. 100.

P.S. 221. INTERNATIONAL LAW—Three credits

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. 100.

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. 100.

Desideratum: Some knowledge of history, governments, and geography.

P.S. 223. CABINET SYSTEMS OF GOVERNMENT—Three credits

MR. KASLAS

A study of the European versions of democratic government beginning with Great Britain and considering the variations from the British system of government found on the continent.

Prerequisite: P.S. 100.

P.S. 224. Soviet System of Government—Three credits

MR. KASLAS

A course dealing with the structure and functions of the Soviet Government emphasizing the contrasts and similarities in form with governments of the West.

Prerequisite: P.S. 100.

### **PSYCHOLOGY**

Assistant Professor R. Riley, chairman; Assistant Professor Gaito; Instructors Kanner and Krasno.

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

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

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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.

Psy. 208. Human Behavior—Three credits

THE STA

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. Psychological Tests—Three credits

THE STAFF

A survey of the functions measured by psychological tests with emphasis on intelligence and personality. A variety of the group and indi-

vidual tests which measure these functions are studied. This course is a prerequisite for Psy. 251 and Psy. 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.

PSY. 254. SYSTEMATIC PSYCHOLOGY—Three credits THE STAFF

A historical introduction to the various 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 course in psychology.

Psy. 255. CLINICAL PSYCHOLOGY—Three credits

THE STAFF

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.

Psy. 257. Abnormal Psychology—*Three credits*The Staff 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 each semester.

The Staff

An opportunity to conduct individual research projects under supervision. (Open to psychology majors only.)

Prerequisite: permission of head of department.

#### RETAILING

Professor Rosenberg, chairman; Instructor Flower.

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 Mr. Flower A basic course that discusses the opportunities in retailing; types of retail institutions; problems of store policy, store location, store organ-

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ization, and personnel practices. The relationship of the retailer to the manufacturer, to the consumer, to the government, to the community, and to competitors is analyzed.

## RET. 102. RETAIL STORE ORGANIZATION AND MANAGEMENT Three credits The Staff

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.

# RET. 205. RETAIL ADVERTISING AND SALES PROMOTION— Three credits Mr. Flower

Study of basic principles of retail advertising and sales promotion. Special emphasis is placed on the preparation of copy for various types of retail establishments as well as on the analyses of current advertisements. Elements of the advertisement: headline, copy, layout, type, illustrations, and selection of media are analyzed.

# RET. 207. RETAIL SELLING<sup>1</sup>—Three credits MR. FLOWER Techniques of retail selling including practical sales demonstrations. Analysis of the needs of customers; the handling of difficult situations; the techniques of increase sales; and building permanent business.

# RET. 210. ELEMENTS OF MERCHANDISE—Three credits THE STAFF 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.

# RET. 212. PURCHASES AND MERCHANDISING CONTROL—Three credits MR. FLOWER

The principles, techniques, and problems encountered in merchandising; purchase planning, markup, markdown, inventories and their control, turnover, retail method of inventory, and the types and limitation of stock control 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. 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

# 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 Three credits 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; Instructors Gera, 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. 101-102. SHORTHAND AND TYPEWRITING

Two credits shorthand, two credits typewriting each semester
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. SHORTHAND<sup>1</sup>—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.

<sup>&</sup>lt;sup>1</sup> Credit will not be given if credit for B.A. 214 has been received.

<sup>&</sup>lt;sup>1</sup>Credit will be given only to students who have not previously taken S.S. 101-102.

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. Typewriting<sup>1</sup>—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 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

MR. GERA

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 SHORTHAND<sup>2</sup>—Two credits each semester

MR. JENKINS

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 Typewriting<sup>2</sup>—Two credits Mr. Jenkins

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 Mr. Gera

Study of accepted procedures in typical medical offices, clinics, and hospitals; application of stenographic skills to medical dictation; transcription 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. Gera, 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. Gera, 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 The Staff

Principles of business education; business curricula in secondary schools; psychology of skill-building as applied to shorthand and type-writing; techniques of instruction in typewriting and shorthand, standards, tests, and measurement in the secretarial studies; content, objectives, and methods of instruction in office practice.

<sup>&</sup>lt;sup>1</sup> See footnote preceding page.

<sup>&</sup>lt;sup>2</sup> Credit will be given only to students who have not previously taken S.S. 109-110.

#### 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 major in sociology.

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.

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. 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. Psychological aspects of marriage. Factors
responsible for marital success or failure.

Prerequisite: Soc. 100 or permission of the instructor.

Soc. 212. Sociology of Industry—Three credits Mrs. Mus.

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.

Soc. 215. Sociology of Urban Life—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

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

Mrs. Mul

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.

Soc. 255. Introduction to Social Psychology—Three credits

THE STAFF

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, Society, and Personality—Three credits
Mr. Symmons

A study of the influences on personality that derive from group and cultural sources. Comparative study of personality formation under different cultural conditions. Analysis of social factors related to personality disorganization and reorganization.

Prerequisite: Soc. 255 or Soc. 265.

Soc. 265. Introduction to Anthropology—Three credits

MR. SYMMONS

A general survey of the field of anthropology stressing its cultural aspects. Human origins and evolution; the modern races; culture: its development, nature and characteristics, contemporary non-literature societies and their institutions.

Prerequisite: Soc. 100.

Soc. 270. Peoples and Cultures of the World—Three credits

MR. SYMMONS

A survey of the non-Western cultures of the world with an emphasis on one of the following areas: The Middle East, The Far East, South-East Asia, Africa, Australasia, Latin America.

Prerequisite: Soc. 100.

Soc. 275. GROUP RELATIONS IN THE MODERN WORLD-

Three credits Mr. Symmons

A theoretical analysis of inter-group tensions and processes of adjustment with special reference to modern racial, national, and religious conflicts.

Prerequisite: Soc. 100 and Psy. 100.

Soc. 280. Modern Sociology and its Historical Background—

Three credits

Mr. Symmons

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.

#### 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.

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ROBERT E. WERNER B.A. (Roosevelt) M.S. (Wisconsin)	Economics Andread	Assistant Professor
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CROMWELL E. THOMAS B.S. (Washington and Lee)	Engineering	Assistant Professor
PAUL R. WERNER B.S. (Susquehanna) M.A. (New York)	Accounting	Assistant Professor
You-Keng Chiang B.A. (Central) M.A., Ph.D. (Chicago)	Economics	Assistant Professor
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CHESTER E. COLSON  B.S. (Massachusetts School of Art)  M.A. (Columbia)	Art Education	Assistant Professor
JOHN GAITO B.A. (Pennsylvania) M.A. (Temple) Ph.D. (Pennsylvania)	Psychology (Manual Psychology (M	Assistant Professor

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JAMES R. PARMENTER B.A. (Kent State University)	Philosophy	Assistant Professor
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GEORGE F. ERMEL B.A. (Wilkes) M.A. (Syracuse)	Library	Assistant Professor
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English	Instructor
date I each	
Music	Instructor
Library	Instructor
Physical Education	Instructor
Library	Instructor
Faculty	
Music	Instructor
Music	Instructor
Sociology	Instructor
Business Admin.	Instructor
Nursing Education	Instructor
Nursing Education	Instructor
Political Science	Instructor
Philosophy	Instructor
Political Science	Instructor
Safety Education	Instructor
	Music  Library  Physical Education Library  Faculty  Music  Music  Sociology  Business Admin.  Nursing Education  Nursing Education  Political Science  Philosophy  Political Science  Safety

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JOHN BUSH B.S. (Wilkes)	English	Instructor
MARY A. THOM B.A. (Middlebury) M.A. (Wisconsin)	Library	Instructor
JOYCE MILLER M.A. (Chicago)	Nursing Education	Instructor

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2. Chase Hall-Administration

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4. Warner Hall 5. Ashley Hall

6. Stark Hall

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9. President's House

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11. Weckesser Hall

12. Weiss Hall

13. George Catlin Hall 14. Sterling Hall

15. McClintock Hall

16. Isaac Chapman Hall 17. Charles Parrish Hall

18. Conyngham Annex-Art

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20. Harding Hall

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22. Pickering Hall

23. Hollenback Hall

24. Gies Hall

25. College Commons

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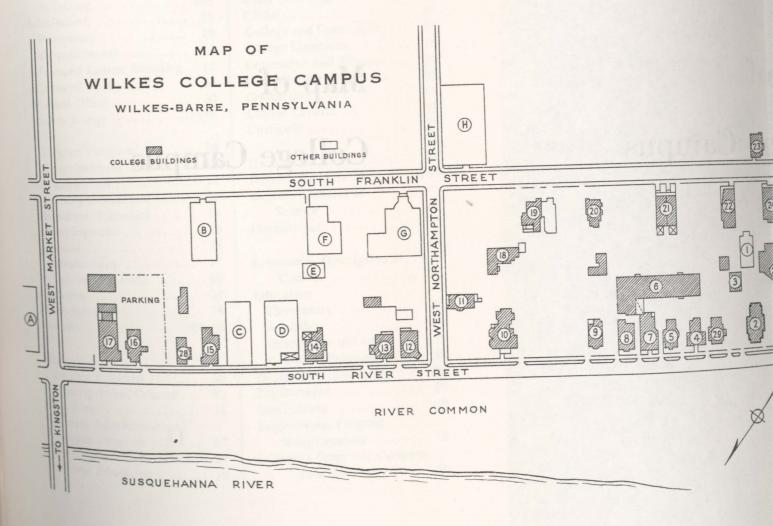
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28. Guidance Center

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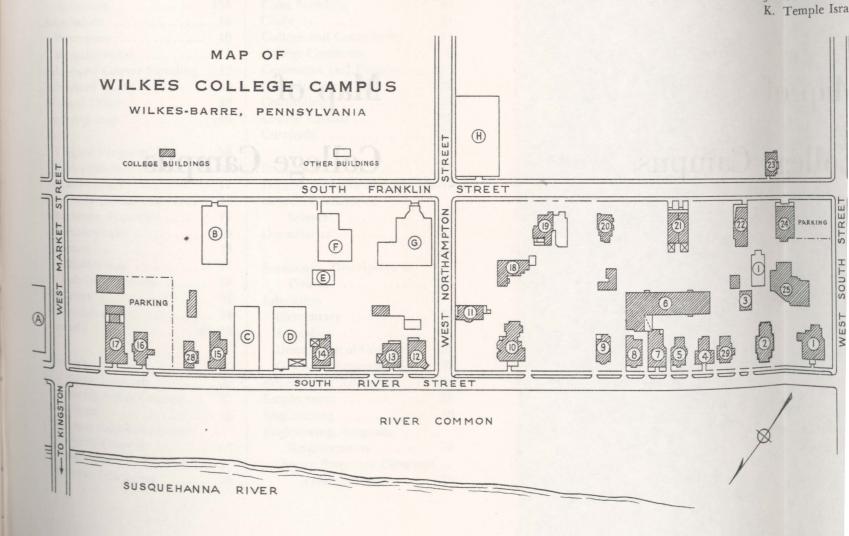
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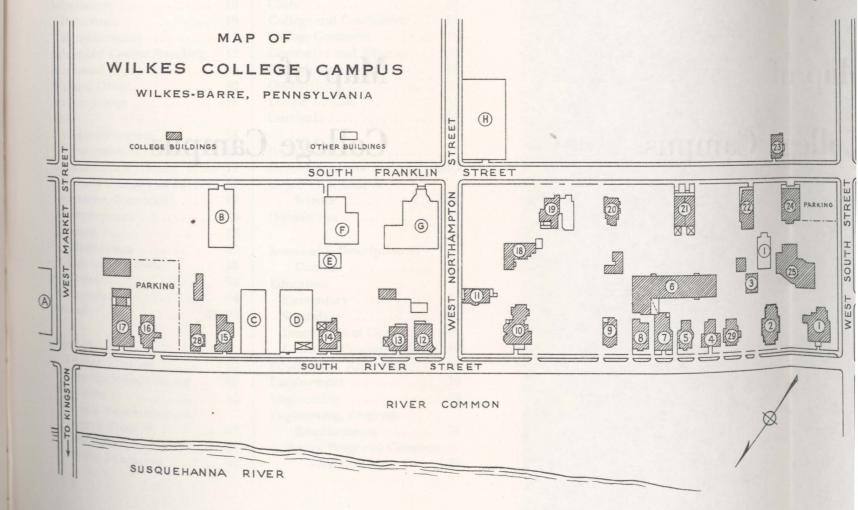
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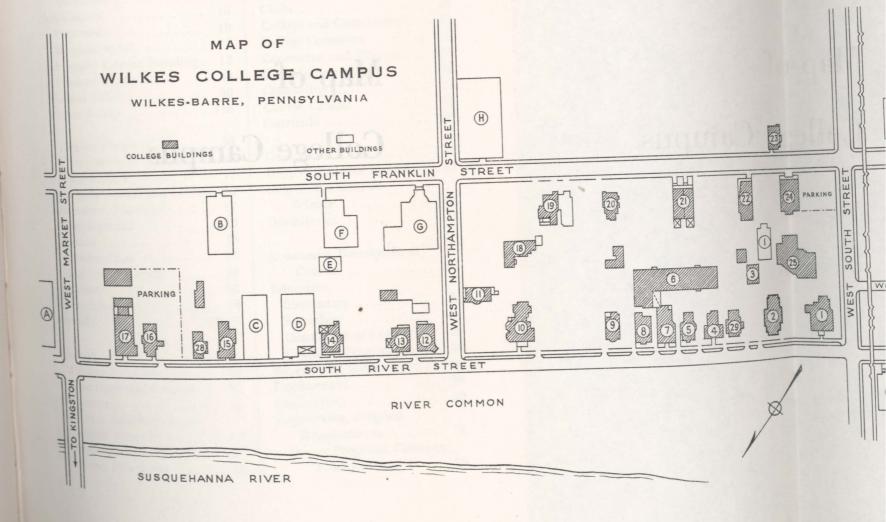
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- D. Jewish Community E. Historical Society
- F. Osterhout Library
- G. First Presbyterian
- H. Central Y. M. C. A
- I. Christian Science (
- Ohav Zedek
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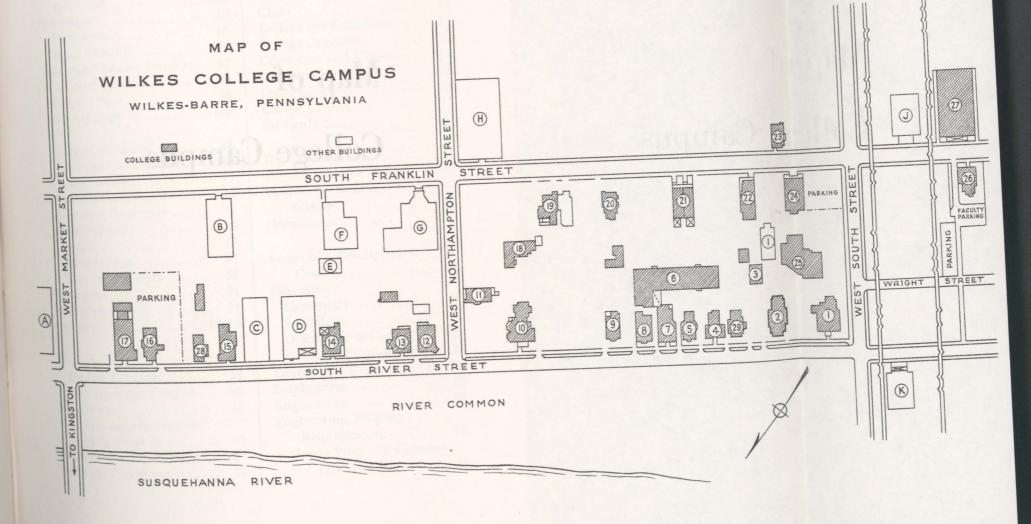
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# Map of College Campus

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