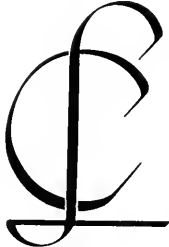


LYCOMING COLLEGE





Lycoming is a coeducational liberal arts college with a student body of 1,500, approximately 900 men and 600 women. A United Methodist related institution, Lycoming is open to students regardless of their religious, racial, or national backgrounds.

LYCOMING COLLEGE





THIS IS LYCOMING

Lycoming College encourages the search for meaning within a world of changing values. Although its primary thrust is within the liberal arts, the College recognizes the importance of vocational emphases to assure competency in the world of work.

Lycoming College firmly believes that the search for values within the historical setting of religious concern must be the function of the entire institution. Free inquiry is essential to the pursuit of truth and self-understanding. All of campus life, and not simply the activities of classroom and chapel, must actively assist the student to discover his true vocation as a human being.

Free inquiry is essential to the pursuit of truth and self-understanding. Within an atmosphere in which moral and religious values are considered important, Lycoming College stresses:

- A. Competency in the use of language and appreciation for literature;
- B. Understanding of the basic principles of mathematics;
- C. Analysis of relationships and values through the study of philosophy and religion;
- D. Experience in scientific method and knowledge;
- E. Basic understanding of the fine arts through an introduction to music, the theatre, or the history of art;
- F. Experience in the methods and content of history, social sciences, and the behavioral sciences, with at least an introduction to economics, sociology, history, political science, or psychology.
- G. The importance of maintaining sound physical and mental health.

Beyond the level of general education, the College stresses the pursuit of a major. This presses you to achieve competency in a more limited area and encourages greater depth and sense of academic achievement. The major relates to increased understanding of yourself and your world; it leads both to graduate school and to vocation. Majors are not confined to single departments of the College; increasingly they are interdepartmental in nature, thus permitting the student a wider range of experience in related fields.

Founded in 1812 as Williamsport Academy, it is the oldest educational institution in the city of Williamsport. At first, the Academy served only the young through what are now recognized as the elementary grades. With the advent of public schools in the city, the Academy expanded its curricular offerings to include high school and college preparatory work.

In 1848, under the patronage of The Methodist Episcopal Church, the Academy became Williamsport Dickinson Seminary. The Seminary continued as a private boarding school until 1929 when once again its offerings were expanded, this time to include two years of college work. This expansion resulted in a change of the institution's name to Williamsport Dickinson Seminary and Junior College. During its years as a junior college under President John W. Long, the institution forged a strong academic reputation, strengthened its faculty, and expanded its physical plant.

Increasing national demands for higher education following World War II prompted another significant step in the growth of the institution. In 1948, the junior college became Lycoming College, a four-year degree-granting college of liberal arts and sciences.

The College has enjoyed the support and stabilizing influence of The United Methodist Church for more than a century. During most of that period the corporate stock of this institution was owned by the Preachers' Aid Society of the Central Pennsylvania Conference. In 1970 all corporate stock was transferred to a self-perpetuating Board of Trustees of Lycoming College.

Lycoming is approved to grant baccalaureate degrees by the Pennsylvania Department of Education. The College is accredited by the Middle States Association of Colleges and Secondary Schools and the University Senate of The United Methodist Church. It is a member of the National Commission on Accrediting, the Association of American Colleges, the Pennsylvania Association of Colleges and Universities, the Commission for Independent Colleges and Universities, and the National Association of Schools and Colleges of The United Methodist Church.

The name Lycoming is derived from an Indian word "lacomic" meaning "Great Stream". It is a name that has been common to north central Pennsylvania since colonial times.



ADMISSIONS

ADMISSION POLICY

Selective admission is based on academic achievement reflected in high school records, class rank, and ACT or SAT scores. In addition, subjects studied, counselor and teacher recommendations, and other available information that might identify well-qualified candidates are considered.

ADMISSION STANDARDS

1. You should graduate from an approved secondary school.
2. Although a set pattern of high school subjects is not required, a strong program of academic subjects is recommended as the most desirable preparation for college. You should have a minimum of fifteen academic units with substantial work in the areas of English and mathematics, and additional work in foreign language, social studies, and science.
3. The College Board Scholastic Aptitude Test or American College Test is required. Your scores are considered with other academic information.

SELECTION PROCESS

You should file your application between October 1st and May 1st. However, your application may be considered after May 1st., if space is available and you are well-qualified.

Although it might seem, with the emphasis placed on test scores, class rank, and other statistical information, that numbers are all important, this premise is not entirely so. Much time is devoted to reading your application, personal recommendations, counselor's evaluations, and other available information. In addition, phone calls and letters are frequently exchanged in an effort to discern your special talents and qualities which could play an important role in your success as a student at Lycoming. Each candidate is carefully considered in a very personal way.

The College notifies applicants of acceptance on a rolling schedule. Your notification letter will be sent soon after your credentials have been received. In some instances, it may be necessary to request your senior mid-year grades and senior ACT or SAT score reports if these are to your advantage. Your decision to attend Lycoming must be made on or before the Candidate's Reply Date of May 1st, and the College should be notified with a non-refundable \$100 deposit.

APPLICATION PROCEDURE

1. To apply for admission, request forms from the Director of Admissions.
2. The Admissions Office will compile a personal folder for you. These items must be submitted before you can be considered for admission:
 - A. Completed application for admission and secondary school transcript.
 - B. Fee of \$15, which is a processing charge and is not refundable.
 - C. Results from the American College Testing Program or the Scholastic Aptitude Test of the College Entrance Examination Board. Results from the test written during the senior year are preferred. Results from the test written in the junior year may be accepted if you are accepted to the class early in the admission year.

NOTE: It is recommended that you have the results of any achievement tests you write reported to Lycoming.

3. You and your family are invited to visit the campus and to meet with the Director of Admissions or a representative of the Admissions Office. You will have an opportunity to review your credential file, to discuss your plans, and to ask and answer questions.

MEDICAL HISTORY AND PHYSICAL EXAMINATION

Each student entering the college is required to submit a medical history record and a physical examination form prior to arriving on the campus. A parent or guardian of each student under twenty-one years of age must sign the health record which authorizes the college health authorities to give emergency medical treatment according to good medical practice. In the event an operation or other treatment is required for a serious accident or illness, the College Physician will always secure prior parental consent if the circumstances permit.



COURSE CREDIT BY EXAMINATION

COLLEGE ENTRANCE EXAMINATIONS

If you are entering as a freshman, have studied an advanced course while in secondary school, and have taken the appropriate advanced placement examination of the College Entrance Examination Board, you are encouraged to apply for credit and advanced placement. A grade of three or above is generally considered to be satisfactory.

COLLEGE LEVEL EXAMINATION PROGRAM — (CLEP)

You may earn college credit for superior achievement on the College Level Examination Program (CLEP) sponsored by the College Entrance Examination Board. By achieving at the 75th percentile or above on the General Examinations and the 65th percentile or above on the Subject Examinations, you may earn up to fifty percent of the course requirements for a bachelor of arts degree. These examinations are administered the third week of each month at regional testing locations around the nation. Further information may be obtained from the Office of Admissions. While these examinations may be taken after enrollment at the College, entering freshmen are encouraged to take the examinations of their choice during the second semester of their senior year in high school. If you do so, the College will have the test scores prior to your registration. This will assure appropriate course credit prior to your selection of freshman courses.

ADVANCED STANDING BY TRANSFER

Lycoming College recognizes college level course work you have completed at other institutions. You must submit official copies of transcripts from all institutions you have attended. Your academic standing will be based on an evaluation of all courses taken. All courses passed, which are comparable to courses at Lycoming College, will be accepted for transfer. However, the final eight courses must be taken at Lycoming College. You must be in good academic standing with a minimum grade point average of 2.0 (C) to be considered for admission.

EARLY ADMISSION

A number of high schools have accelerated and enriched their programs to the degree that the advanced student may be intellectually and emotionally ready for the collegiate experience by the close of the junior year in high school. Lycoming College is willing to consider and admit a limited number of these students to the freshman class each year.

To qualify for early admission, you must complete an academic program to the end of grade eleven. Your class rank should be very high, and your scores on the ACT or SAT should show your readiness to do college level work. You must exhibit advanced maturity and possess strong personal motivation.



EARLY ADMISSION PROCEDURE

1. Your high school counselor recommends you for early admission.
2. Your parents approve the advancement as preferable to the senior year at the high school.
3. After consultation between you, your parents, your school administrators, and College personnel, you complete the regular application procedure.
4. You are admitted with full freshman standing. At the successful completion of your freshman year, your high school receives a grade report from the College. The high school then usually awards its standard diploma.

ADMISSION AS A SPECIAL STUDENT

Persons who wish to take one or more courses and are not regularly enrolled at Lycoming may apply for admission to any term as a special student. Application forms are available from the Admissions Office.

PROVISIONS FOR VETERANS

Lycoming is fully approved for the educational program for veterans under Federal Public Laws 550, 634, and 894.

ADMISSIONS OFFICE

The Admissions Office is located on the first floor of Long Hall. For an appointment please write or call the Admissions Office. The telephone number is Williamsport 717 326-1951. *Office hours are:*

Monday through Friday 9:00 a.m. to 4:30 p.m.
Saturday 9:00 a.m. to 12:00 noon
(No Saturday hours during the months of June, July, and August)

Individual interviews are scheduled:

Weekdays..... 10:00 a.m. to 4:00 p.m.
Saturdays..... 9:00 a.m. to 12:00 noon

ORIENTATION

The orientation program at Lycoming is designed to help the student entering college for the first time to start this new adventure under the most favorable circumstances. An entirely new concept of courses, class scheduling, and methods of instruction must be assimilated. Adjustments to this new experience are important.

In order to prepare you for the beginning of this experience, Lycoming schedules six to eight orientation sessions each lasting two and one half days during the summer. Each new student is required to attend one of these sessions accompanied by at least one parent.

The summer program makes it possible to schedule ample time for academic advisement, placement testing, library orientation, and registration. The college is able to work more satisfactorily with you in planning programs of study tailored to your vocational and academic interests. You complete all preliminaries, including registration, during the summer orientation period. Textbooks are available for purchase and perusal prior to the opening of classes in the fall.

Information about the dates of orientation sessions and a pre-registration form will be mailed to you when you are admitted to Lycoming College.





FINANCIAL INFORMATION

EXPENSES

Lycoming recognizes the problem of constantly increasing educational costs and offers a substantial program of financial aid to assist those needing help to attend an excellent private coeducational college.

If you are academically qualified you should not hesitate to apply to Lycoming College solely because of financial need. At Lycoming, we make every effort to assure that qualified students are not barred due to their limited resources.

The expenses listed below have been kept as low as possible through regular voluntary contributions from alumni and friends plus income from invested endowment funds. This gift income has permitted Lycoming to develop a well-qualified academic community and to continually improve its excellent facilities.

Thus at Lycoming you will receive much more than any fees you pay would buy—a rare bargain in today's economy. And if our "bargain" price is still beyond your means, our financial aid office will assist you as much as possible, as outlined beginning on page 15.

GENERAL EXPENSES FOR THE ACADEMIC YEAR 1973-1974

The Comprehensive Fee at Lycoming is \$1,100.00 per semester, plus special charges which are listed on the following pages. A residence hall room costs \$250.00 per semester except for East Hall where an extra charge of \$12.00 or \$25.00 is charged depending on facilities provided. Board is \$300.00 per semester. If, for justifiable reason, it is impossible for a student to eat in the College Dining Room, permission may be granted to make other meal arrangements. However, when such permission is granted, the room cost will be 50% higher. If you request the use of a double room as a single room, an available room costs 50% more than its regular rate.

The comprehensive fee covers the regular load of three or four unit courses each semester. If there should be a considerable increase in the price of commodities and/or services during any semester, the College reserves the right to make appropriate increases in the charges for the following semester. Additional detailed information will be furnished by the Treasurer's Office upon request.

APPLICATION FEE AND DEPOSITS

All students applying for admission are required to send an application fee of \$15.00 with the application. This charge is to defray the cost of processing the application and maintaining academic records and it is non-refundable.

After you are notified that you have been accepted for admission by the College, you are required to make a deposit of \$100.00. This deposit is evidence of your good intention to matriculate and is applicable to the general charges of your final semester in attendance; it is not an extra fee. This deposit is not refundable if you fail to matriculate at Lycoming.

All resident students are required to make an additional Room Security Deposit of \$50.00. If, as a resident student, you are not assessed for any damage to your room in the residence hall, the Room Security Deposit is fully refunded when you no longer live in the residence hall.

EXPENSES IN DETAIL PER SEMESTER—ACADEMIC YEAR 1973-74

The College reserves the right to adjust fees at any time.

ONE-TIME FEES AND DEPOSITS

Resident Students		Non-Resident Students
\$ 15.00.....	Application Fee.....	\$ 15.00
\$ 100.00.....	Admission Deposit.....	\$ 100.00
\$ 50.00.....	Room Security Deposit	

PER SEMESTER (1973-74)

\$1,100.00.....	Comprehensive Fee.....	\$1,100.00
\$ 250.00.....	Room	
\$ 300.00.....	Board	
<u>\$1,650.00.....</u>	<u>Basic Cost</u>	<u>\$1,100.00</u>

FEES FOR PART-TIME STUDENTS

Application Fee	\$ 15.00
Each Unit Course.....	\$ 275.00

ADDITIONAL CHARGES

Fifth Unit Course	\$ 275.00
Laboratory Fee per Unit Course	\$5.00 to \$ 30.00
Applied Music Fee (Half-Hour per Week per Semester)	\$ 50.00
Practice Teaching Fee (Payable in Junior Year).....	\$ 80.00
Transcript Fee (No charge for first transcript).....	\$ 1.00
Cap and Gown (Rental at prevailing cost)	

BOOKS AND SUPPLIES

A book and supply store is conveniently located in Wertz Student Center. The estimated cost ranges from \$75.00 to \$150.00 per year depending on the course of study which you pursue.

PAYMENT OF FEES

The basic fees for each semester are due and payable ten days before the beginning of that semester.

PARTIAL PAYMENTS

For the convenience of those who find it impossible to follow the schedule of payments as listed, arrangements may be made with the College Treasurer for the monthly payment of college fees through various educational plans. Additional information concerning partial payments may be obtained from the Treasurer or Director of Admissions.

WITHDRAWALS AND REFUNDS

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

Room charges are fixed on a semester basis. If you leave college prior to the end of a semester you will not be entitled to any refund of room charges.



14/ FINANCIAL INFORMATION

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

Dropping a unit course from the original schedule after the first week of either semester will not justify any claim for refund of tuition charges. No refund will be made to those students who are asked to withdraw from the college. Special charges cannot be refunded for any reason whatever.

PENALTY FOR NON-PAYMENT OF FEES

You will not be registered for courses in a new semester if your account for previous attendance has not been settled. No grades will be issued, no diploma, transcript of credits, or certification of withdrawal in good standing will be granted to any student until a satisfactory settlement of all obligations has been made.

DAMAGE CHARGES

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

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

ACCIDENT AND SICKNESS INSURANCE

As a resident student, you must purchase the Accident and Sickness Group Insurance Plan of the college for the academic year, unless you can present evidence that you are covered under some other health insurance program. Non-resident students may participate in the College Group Insurance Plan on a voluntary basis. If a resident student becomes ineligible under another plan because of age, he must enter the college program in the semester in which he loses his other coverage. The insurance plan will also be available for twelve-month coverage on a voluntary basis for all students. Information concerning the plan and its benefits will be sent to all students during the summer.



FINANCIAL AID

In considering the financing of your college education both the expenses involved and the various methods of meeting them should be considered simultaneously. At Lycoming, if you need financial aid, a generous program of assistance can help to lower your out-of-pocket cost significantly.

Since you will be the primary beneficiary of your higher education, we feel you should assume part of the responsibility for paying your college expenses. You can do this by saving, working, and borrowing. We expect you to make every effort to obtain financial support from such outside sources as state and local grants, company scholarships for employee's children, and other funds you may be eligible to receive.

A student's parents are often an important source of financial help. Some families of modest means can give only moral support, but most also can give substantial financial help. We are eager to help you and your parents to meet your educational expenses at Lycoming but expect each family to pay as much as it can reasonably afford and at least as much as other families in similar financial circumstances.

The establishment of need is the controlling factor in determining the amount of any financial aid. A scholarship may be awarded on the basis of financial need and academic ability, while a grant is given on the basis of financial need alone. Long term, low cost educational loans are available to most students who need them from Federal and State sources. If your academic standing is satisfactory, a portion of your college expenses can be earned by part-time work.

Financial need is determined by deducting what you and your parents can reasonably contribute toward your education from the actual cost of attending Lycoming College. You are eligible to be considered for financial aid up to the part of the cost which it is impossible for you to provide. Your family's total financial situation is judged. Not only gross income and net assets are considered, but also the number of dependent children, unusual medical expenses, marital status of parents, brothers or sisters attending college, and other pertinent data.

To apply for financial assistance, obtain the "Parents Confidential Statement" form from your high school guidance counselor or the Financial Aid Office at Lycoming. Submit the completed "Parents Confidential Statement" to the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540, at the earliest convenient date.

SCHOLARSHIPS

A number of scholarships are awarded to freshmen applicants who are in the top fifth of their high school class and have a combined score over 1200 in the College entrance Board Tests. The scholarships range from \$300 to full tuition depending upon the student's financial need. These scholarships are renewed each year if the student maintains a 3.0 cumulative average and financial need continues.

There are a number of Freshmen Recognition Scholarships of \$500.00 each awarded to applicants who have superior academic qualifications but do not demonstrate any financial need. These scholarships are only for the student's first year at Lycoming.

GRANTS-IN-AID

For worthy students who can not qualify for scholarships, Lycoming has an extensive program of grants-in-aid up to full tuition. Awards are based on demonstrated need and the prospect of the student contributing positively to the college community. Renewal requires continued financial need, maintenance of satisfactory academic and citizenship standards, and participation in college activities.



MINISTERIAL GRANTS-IN-AID

Each applicant for a ministerial grant-in-aid should complete the College Scholarship Service form. If there is demonstrated need for more financial assistance than a ministerial grant-in-aid will provide, additional types of aid will be considered. The ministerial grant-in-aid will be part of a total award to meet a demonstrated need—it will not be given in addition to awards which will meet established needs.

Children of Ministers of the Central Pennsylvania Annual Conference of The United Methodist Church receive grants equal to one-third of the charges for tuition.

Children of Ministers of other Annual Conferences of The United Methodist Church and of other denominations receive grants equal to one-fourth of the charges for tuition.

Students preparing for the Christian ministry receive grants equal to one-fourth of the charges for tuition. They must satisfactorily complete the application for pre-ministerial discount, file an application for financial aid, and demonstrate financial need.



FEDERAL EDUCATION OPPORTUNITY GRANTS (EOG)

This is a Federal program to provide additional assistance to those students with heavy financial need. Awards are made of \$400 to \$1,000 and are based entirely on financial need. Renewal is available if the applicant has no reduction in financial need in succeeding years.

FEDERAL NATIONAL DEFENSE STUDENT LOANS (NDEA LOANS)

Federal loan funds are available under the National Defense Education Act of 1958. Loans up to \$1,000 per year are granted on the basis of academic promise and demonstrated need. Repayment does not begin until after graduation or withdrawal. Loans are normally renewed yearly if the applicant files a renewal application by May 1st.

FEDERAL WORK-STUDY GRANTS

An opportunity is provided for students to earn some part of their College expenses and gain some practical experience from working on campus or in selected off-campus programs. While some freshmen are given work-study grants, the College believes the student should become accustomed to college before spending much time in a work situation. The Federal income guidelines must be met to be eligible for work-study awards. There are opportunities for campus employment for those students who can not meet the Federal guidelines but who desire employment; these students should file an application with the Placement Office.



OTHER SOURCES OF FINANCIAL ASSISTANCE

STATE GRANTS

All applicants for financial aid are strongly urged to investigate programs sponsored by their home state and to apply before the deadline. Pennsylvania applicants should apply for state aid before the deadline (normally December 15th) during their senior year in high school. See your guidance counselor or write: P.H.E.A.A., Towne House, Harrisburg, Pa. 17102.

STATE GUARANTEED LOANS

Pennsylvania, New Jersey, New York, and most other states provide state guaranteed loans through local banks. This program provides long-term loans for educational expenses with repayments over an extended, liberal payment schedule. See your own bank early for information.

COMMUNITY SCHOLARSHIPS

In many communities there are local groups and foundations which provide funds to help worthy students. High School awards are often available. Your guidance counselor and principal are the best sources of information.

EDUCATION FINANCING PLANS

In addition to direct financial aid described above, the Business Office or the Financial Aid Office will provide information, upon request, about plans enabling parents to pay college expenses on a monthly basis through selected companies.

Additional information concerning financial aid can be obtained by writing to the Financial Aid Office, Lycoming College, Williamsport, Pa. 17701.







CAMPUS LIFE

STUDENT ACTIVITIES

The college considers one of its responsibilities to be the encouragement of as many different activities as are necessary to provide all students with the opportunity to participate constructively in this area of student life. Departmental clubs; athletics, both intercollegiate and intramural; varied interest groups such as clubs, choir, band; social organizations; social activities; self-governing groups; and many informal associations are important in a well-integrated program of student activities.

STUDENT ASSOCIATION OF LYCOMING COLLEGE

The Student Association of Lycoming College is the channel through which students communicate with fellow students, administrators, and faculty. SALC is the representative voice of all students and the group which the College recognizes as the spokesman for students. The SALC can be a forum where student concerns, needs, desires, and grievances can be discussed and effectively communicated to the administration and faculty.

The primary concern of SALC is the promotion of student involvement in college concerns. As one responsibility of SALC, its president appoints students to appropriate student/faculty and administrative committees and councils. They have the same individual voting privileges as faculty and administrators. Any interested student is eligible for appointment to these committees which play an important role in the functioning of the College.

STUDENT UNION

The Student Union Board is an advisory and functional group of students who work with an Assistant Dean of Students who helps to develop the activity and social program. Students are selected for membership on the Board after they have served a year in the Apprentice Program.

The Board's services to the campus include poster making and publicity, a travel service, social programs, dances, lectures, concerts, picnics, films, tournaments, recreational activities, bridge, life-saving courses, coffee-hours, and intercollegiate events.



CAMPUS CLUBS AND ORGANIZATIONS

A variety of organizations on the campus provide opportunities for social and intellectual growth. These groups are organized and conducted by students in cooperation with faculty sponsors or advisors.

Some of the groups are: the Student P.S.E.A.—N.E.A., which gives prospective teachers current information on the teaching field and an insight into the problems of education; the Varsity Club, composed of lettermen, which promotes college spirit in sports; the Business Club for students majoring in business administration; the French, German, Russian, and Spanish Clubs, which study the language and the life and culture of the countries; the Model United Nations Society; the Practical Politics Society; political clubs, and the Associated Women Students.

COLLEGE PUBLICATIONS AND COMMUNICATIONS

The Bell, official student newspaper, is published weekly and is devoted to interests of the student body, reporting current campus events.

The Arrow, college yearbook, is published in August and presents a record of student life during the previous academic year.

The Guidepost, published annually by the Student Association and Office of Student Services, is a handbook of policies, regulations, and other information.

The Residence Halls Handbook is published annually by the Office of Student Services and provides information about residence hall facilities, activities, governance, rules, and regulations.

NOTE: Both the *Guidepost* and the *Residence Hall Handbook* are important statements of official College policy and regulations which you will receive before you arrive on campus.

The Academic Bulletin is published periodically by the Dean of the College to keep students, faculty, and administrators informed of academic affairs.

The Lycoming, eight newspaper and two magazine editions yearly, informs alumni and friends about Lycoming. Students and faculty contribute articles.

The Campus Radio Station, WLCR, broadcasts on a wired circuit to all residence halls. It is operated daily from 8 a.m. to 2 a.m., except Sunday when it is on the air on a more limited schedule.

FINE ARTS ACTIVITIES

The *Arena Theatre* stages many productions throughout the year. You have an opportunity to enjoy serious drama, comedies, readings, recitals, and even marionette productions, or you can participate—from acting through all the behind-the-scene activities.

Musical organizations at Lycoming offer to vocalists and instrumentalists alike a fine opportunity to learn by doing. There are several choral groups and instrumental ensembles offering every able student the chance to participate both on the campus and on tour.

If you are interested in art you can work in many mediums. Many professional artists, lecturers, and performers exhibit and appear on campus and in the area.

FRATERNITIES

Six Greek fraternities provide male students with the advantages of national fraternities. Activities of Kappa Delta Rho, Sigma Pi, Lambda Chi Alpha, Theta Chi, Alpha Sigma Phi, and Tau Kappa Epsilon are coordinated by I.F.C.

INTERCOLLEGIATE SPORTS

The College offers an attractive program of intercollegiate athletics and encourages wide participation by its students. It is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, and the Northern Division of the Middle Atlantic Conference. Lycoming annually meets some of the top-ranking small college teams in the East in athletic competition. Contests are scheduled in football, soccer, basketball, wrestling, swimming, tennis, golf, and track.

INTRAMURAL ATHLETICS

An extensive and diversified program of intramural athletic competition affords an opportunity to participate in one or more sports of your choice.

Sports for men include touch football, basketball, volleyball, table tennis, badminton, tennis, softball, golf, wrestling, swimming, horseshoes, bowling, track and field.

Sports for women include competition in basketball, volleyball, bowling, badminton, table tennis, tennis, softball, swimming, field hockey, and archery. Field days are arranged with WAA groups of other colleges.



STUDENT SERVICES

The Office of Student Services is concerned with various aspects of your development. The staff consists of the Dean of Student Services and four assistant deans, each of whom live on campus and are available for counseling and advising students with individual problems. In addition, each staff member is responsible for specific assignments such as: Religious Activities, Health Service, Organizational Life, Student Activities, the Student Union, Housing, Special Programs, Career Counseling and Placement.

PERSONAL COUNSELING

The Dean of Student Services and his assistants provide advisement and counseling for students with emotional and adjustment problems. Each member of the staff is qualified to give assistance of a nontherapeutic type. A psychiatrist serves as a consultant to the staff and is available for evaluation of students who may be in need of professional services. Continuing therapy is available only through referral to public agencies and private clinicians in the community. When a student uses the services of a private clinician he is responsible for the payment of his own fees.

In addition to counseling on personal problems, vocational advisement and limited testing services are provided by the Student Services Office staff.

HEALTH SERVICE

The College maintains an out-patient service, located in Rich Hall, which is staffed with registered nurses five days a week from 7:00 a.m. to 11:00 p.m. When the Health Service is closed, service is available at the Williamsport Hospital Emergency Room through the Emergency Care Physicians Association. In the case of illness, the College pays the emergency room charge and the physician's fee. Other charges are the responsibility of the student.

The College physician is available from 11:00 a.m. to 12:00 noon Monday through Friday at the Health Service and on call at other hours through the nurses. Normal medical treatment by the Health Service staff at the College Health Service is free of charge. However, special medications, x-rays, surgery, care of major accidents, immunizations, examinations for glasses, physician's visits other than in the Health Service, referrals for treatment by specialists, and special nursing service, etc., are not included in the free health service, except as provided by the ECPA at the hospital when the Health Service is closed. The student must pay for a visit to the doctor's private office.

STUDY SKILLS PROGRAM

A series of professionally directed study-skills sessions are scheduled as the need arises. Groups of six to ten students are enrolled for a series of six to ten hours in each session. These include sessions on reading skills, test-taking, note-taking, psychological blocks to studying, etc.

READING IMPROVEMENT COURSE

A course designed to improve reading skills is offered at various times during the academic year. Skilled instructors teach how to improve reading speed and comprehension in short courses which span a six-week period—four one-hour periods each week. If you are deficient in reading skills, you may sign up for this course on a voluntary basis. The charge is \$50.00. Information is sent to students during the summer.

CAREER DEVELOPMENT CENTER

Through the provision of information and counseling, the Career Development Center at Lycoming helps you to better understand and determine career objectives. With greater insight into your academic and career goals you may broaden the career opportunities open to you after graduation. You also can receive help securing part-time, summer, and post-graduate employment.

RESIDENCE AND RESIDENCE HALLS

If you are a single student and do not reside at home you are required to live in the college residence halls and eat your meals in the college dining room. Requests for exceptions must be submitted in writing to the Assistant Dean of Student Services-Housing.

If you do not have permission to live off-campus, you must sign a room agreement form, agreeing to observe the rules and regulations for resident students. An agreement form will be sent to you following your acceptance. Upperclassmen receive the agreements and rules and regulations each Spring.

Because of the inability of the College to predict enrollments by sex, it is necessary to keep assignments of halls as flexible as possible. No hall is specifically assigned to women or men or other than a year to year basis.

Resident students are responsible for the condition of their room and its furnishings. The College reserves the right to enter and inspect any of its property, or the property of a room resident for reasons of damage, health, safety, or to determine whether violation of its rules or the law are taking place or have occurred. Charges will be assessed for damages to rooms, doors, furniture, and commonly used areas.

Resident students are expected to vacate their rooms during the vacation periods when the halls are closed and not later than twenty-four hours following their last examinations, except for graduating seniors.

Regulations regarding quiet hours for study are established by the appropriate residence hall councils and are published in the *Residence Halls Handbook* and on the bulletin boards in the halls.

Room visitation by members of the opposite sex is permitted in the halls only under conditions which are established by the College in cooperation with the various residence hall governing groups.







STANDARDS OF CONDUCT

The College expects all of its students to accept the responsibility required of citizens in a free democratic society. The rules and regulations of the College are designed to protect the rights of every member of the community against encroachment by individuals. The limitations which are imposed upon the activities of individuals are established for the common good of the entire college community.

Students who are unable to demonstrate that they can accept this responsibility or are antagonistic to the spirit and general purpose of the College, or fail to abide by the regulations established by the College may be dismissed or requested to leave the College at any time. Further, at the end of any term or semester the College may deny a student the privilege of attending any subsequent term or semester when the administration deems this to be in the best interests of the College. In addition to the regulations published here, specific rules are furnished each student in the *Guidepost*.

The consumption or possession of alcoholic beverages on campus or at any official college function is prohibited. Detailed information regarding the laws of the Commonwealth of Pennsylvania are published in the *Guidepost*.

Lycoming does not condone the illegal use of drugs by its students. A detailed statement of the policy on drugs is published in the *Guidepost*.

Cheating, lying, and stealing are totally inconsistent with Lycoming standards. Although the acceptance and observance of the standards of behavior expected by the College is an individual responsibility it is a group responsibility as well. It is incumbent on all Lycoming students that they attempt to influence their peers to conduct themselves honorably for the collective good.

It is assumed that a willingness to accept these restrictions is implicit in the acceptance of membership in the Lycoming College community. Before you register at Lycoming you will receive a copy of the *Guidepost* and a copy of the *Residence Halls Handbook* if you will live in a College residence.

Both documents are important statements of official College policy, rules, and regulations which are part of the contractual agreement which you enter into when you register as a student at Lycoming.

RELIGIOUS LIFE

Lycoming College provides you with many opportunities to mature in your faith through voluntary participation in the religious life of the campus.

Faculty and students express their religious convictions through membership and participation in nearly thirty Protestant denominations as well as the Roman Catholic and Hebrew faiths. Significant opportunities are offered to every student for the voluntary expression of his religious faith.

Through the office of the Director of Religious Activities, a varied religious life program is maintained as needs arise. The Campus Church conducts worship services each Sunday and at other times such as Holy Week. The services of worship are planned and conducted by students and include the use of outside speakers as well as our own faculty and students. The worship committee is appointed by the Campus Church Council; the governing body is elected by the Campus Church. The mission of the Campus Church is activated by the Campus Church Council through activities such as retreats, service projects, and study groups.

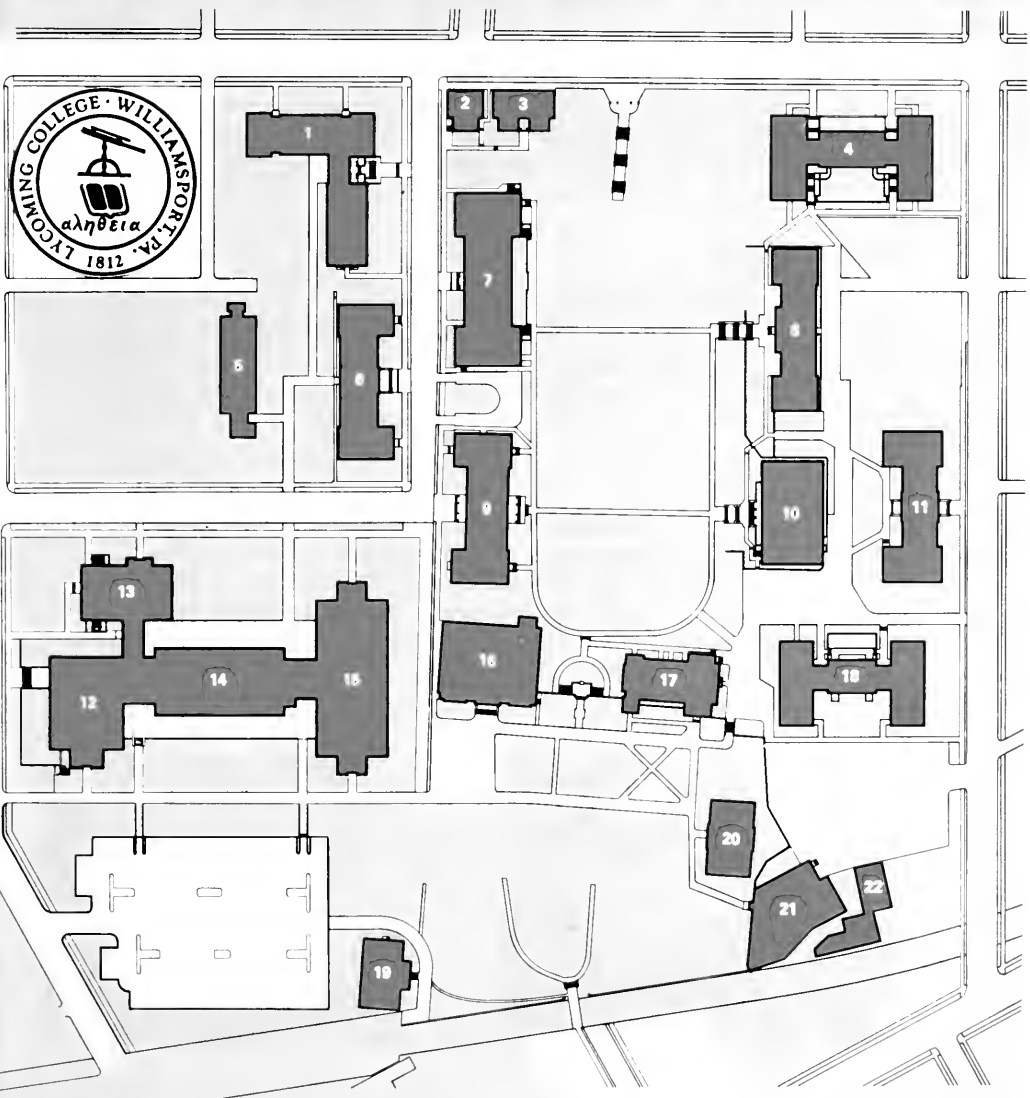
The Director of Religious Activities also provides counseling service each afternoon in his office in Clarke Chapel.

A part-time Roman Catholic chaplain assists the activities of the Newman Club and maintains office hours in Clarke Chapel for counseling purposes. Mass is celebrated on campus each Sunday.

Interfaith activities are carried out through special committees appointed by the Director of Religious Activities in consultation with the Roman Catholic chaplain and other interested persons.







ADMISSION REQUIREMENTS

Selective admission is based on academic achievement reflected in school records, class rank, and ACT or SAT scores. In addition, subjects studied, counselor and teacher recommendations, and other available information that might identify well-qualified candidates are considered.

You should graduate from an approved secondary school. Although a set pattern of high school subjects is not required, a strong program of academic subjects is recommended as the most desirable preparation for college. You should include a minimum of fifteen academic units with substantial work in the areas of English and mathematics, and additional work in foreign language, social studies, and science. Students who have completed advanced placement, accelerated, or honors courses are given special consideration.

You and your parents are urged to visit the campus. An appointment with the admissions office would be helpful. Write, or call 717-326-1951, Ext. 221.

EXPENSES FOR 1973-74

	Semester	Year
Comprehensive Fee	\$1,100.00	\$2,200.00
Room	250.00	500.00
Board	300.00	600.00
Total fixed charges.....	<u>\$1,650.00</u>	<u>\$3,300.00</u>

Books and supplies normally cost between \$75 and \$150 per year. Allowance must be made for laundry, travel, clothing, and personal needs.

FINANCIAL AID

At Lycoming, if you need financial aid, a generous program of assistance can help to lower your out-of-pocket cost significantly. Financial aid, which totals \$600,000 annually, recognizes outstanding achievement and supplements limited resources by providing scholarships, grants-in-aid, Educational Opportunity Grants, loans, and Work-Study Grants. The College Scholarship Service of the College Entrance Examination Board is used to determine the amount of each grant or award. Academic promise and need are the basis for awarding freshman scholarships.





CALENDAR WITH MAY TERM

Two outstanding aspects of Lycoming College are its new academic calendar and the *May Term*. The first semester starts very early in September and is over before Christmas. The second semester starts right after New Year's and ends the last few days in April. A unique optional *May Term* offers a challenging array of special courses. Some of the four-week courses offer study and projects on campus, others involve nearby, distant, or foreign travel, and several encompass interdisciplinary credit. Many are non-traditional in content.

Special curricula enable you to prepare for the study of medicine, law, dentistry, and theology. You can prepare to teach and complete your required academic major and the professional courses required for certification by the Pennsylvania Department of Education. Cooperative programs with other colleges are available in engineering, forestry, and drama. Special programs in medical technology and religious education are offered.

The Lycoming Scholar program, independent study, seminar study, and departmental honors are available to qualified students. Recommended students can participate in a Washington, United Nations, Washington International, or London semester; spend a summer in the Near East, or take advantage of other overseas programs.

CURRICULA

You may earn a bachelor of arts by completing one of three types of major.

Departmental:

Accounting	French	Political Science
Art	German	Psychology
Biology	History	Religion
Business Administration	Mathematics	Russian
Chemistry	Music	Sociology and Anthropology
Economics	Philosophy	Spanish
English	Physics	Theatre

Established Interdisciplinary:

Accounting-Mathematics
Literature
Near East Culture and Archeology
Soviet Area Studies

Individual Interdisciplinary:

You may take the initiative and design, with your advisor, a unique individual interdisciplinary major involving two or more "major" departments.

LYCOMING CAMPUS

RESIDENTIAL

1. *North Hall* (1965) - 146 students in two-room suites with bath.
4. *East Hall* (1962) - Houses chapters of national fraternities and other students. The fraternity units, distinct and self-contained, provide dormitory facilities, lounge, and a chapter room for each group. All students share a large social area on the ground floor.
5. *Forrest Hall* (1965) - 92 students in two-room suites with bath. Honors Dr. and Mrs. Fletcher Bliss Forrest and Anna Forrest Burfiendt '30, the parents and sister of Katherine Forrest Mathers '28 whose generosity established the memorial.
6. *Crever Hall* (1962) - 126 students in two-room suits with bath. Honors the College's founder and first financial agent, Rev. Benjamin H. Crever, who helped persuade the Baltimore Conference to purchase the institution from the Williamsport Town Council in 1848.
8. *Wesley Hall* (1956) - 144 students. Honors the founder of Methodism.
9. *Rich Hall* (1948) - 126 students in two-room suites with bath. Honors the Rich family of Woolrich, Pennsylvania. Houses the college health service and the Sara J. Walter non-residents lounge.
11. *Asbury Hall* (1962) - 154 students. Honors Bishop Francis Asbury, the father of the United Methodist Church in America, who made the circuit through the upper "Susquehanna District" in 1812, the year the Williamsport Academy (now Lycoming) opened its doors.
18. *Skeath Hall* (1965) - 184 students. Honors the late J. Milton Skeath, professor of psychology and four-time dean of the institution from 1921 to 1967.

ACADEMIC

- The Academic Center (1968)
12. *Laboratories and Arena Theatre* - Language, business, mathematics, and physics laboratories; Detwiler Planetarium; 204 seat thrust-stage arena theatre; 90 seat Alumni Lecture Hall.
 13. *Faculty Office Building* - 69 faculty offices, seminar rooms, 735 seat lecture hall.
 14. *Wendle Hall* - Spacious Pennington Lounge is an informal meeting place for students and faculty. Psychology laboratories, 20 classrooms.
 15. *Library* - Can accommodate 700 students in a variety of study and reading situations, has a capacity of 250,000 volumes, computer center, audio-visual center.
 2. *Art Center* (1965) - Studios and art gallery.
 3. *Fine Arts Building* (1940) - Music studios and individual practice rooms.
 19. *Eveland Hall* (1912) - Sculpture and art studios.
 21. *Science Building* (1957) - Chemistry and biology lecture rooms, laboratories, offices.

CHAPELS

17. *Clarke Chapel* (1939) - Worship services and other events in auditorium, classrooms and faculty offices on ground floor.
10. *Conner Memorial Chapel* - On the ground floor of Long Hall. Honors Benjamin C. Conner president of Williamsport Dickinson Seminary 1913-1921.

ADMINISTRATION

10. *John W. Long Hall* (1951) - College administration offices: President, College Deans, Treasurer, Registrar, Admissions, Alumni Affairs, Public Relations, Career Development Center, Publications, Development, and Financial Aid. Reception area, central communications, duplicating and bulk mail services, Conner Memorial Chapel.

RECREATION

7. *Wertz Student Center* (1959) - Dining room, Burchfield Lounge, recreation area, game room, music room, book store, post office, and student organization offices. Honors Bishop D. Frederick Wertz, president of Lycoming from 1955 until 1968.
16. *Gymnasium* (1923) - Basketball and other courts, swimming pool, bowling alleys, physical education offices.



THIS IS LYCOMING

Lycoming is a coeducational liberal arts college with a student body of 1,500, approximately 900 men and 600 women. A United Methodist related institution, Lycoming is open to students regardless of their religious, racial, or national backgrounds.

At Lycoming it is believed that a liberal arts education is the best hope for an enlightened citizenry and that vocational and professional specialization must be built on a broad acquaintance with the various disciplines. Programs are arranged within a liberal arts framework so that all students study the humanities, sciences, and social sciences.

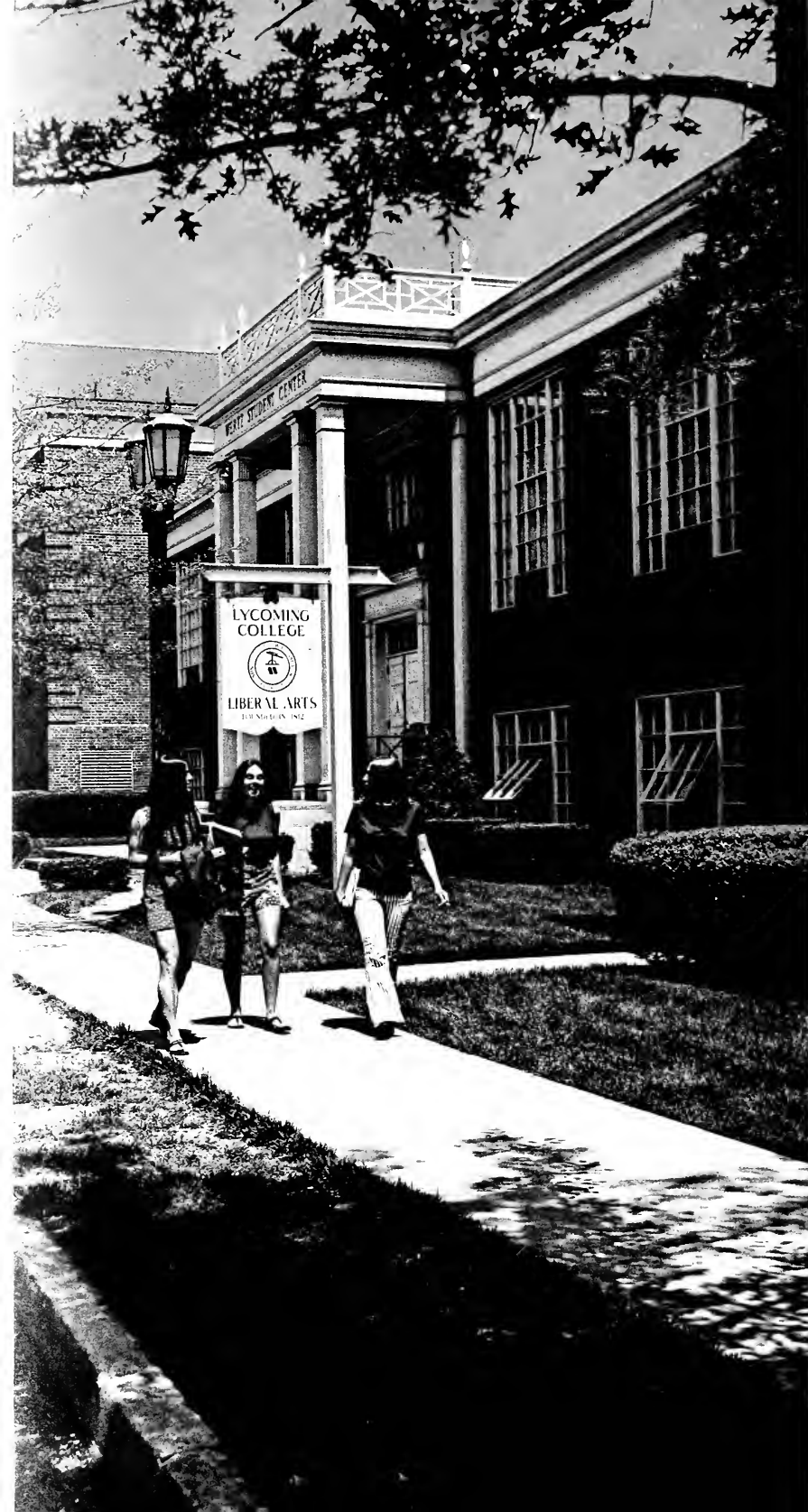
Beyond the level of general education, the College stresses the pursuit of a major. This presses you to achieve competency in a more limited area and encourages greater depth and sense of academic achievement. The major relates to increased understanding of yourself and your world; it leads both to graduate school and to vocation. Majors are not confined to single departments of the College; increasingly they are interdepartmental in nature, thus permitting the student a wider range of experience in related fields.

LOCATION

Lycoming College, in scenic North Central Pennsylvania ninety miles north of Harrisburg, is set upon a slight prominence near downtown Williamsport overlooking the beautiful West Branch Valley of the Susquehanna River. Greater Williamsport, with a population of 85,000, is within 200 miles of Washington, Baltimore, Philadelphia, New York, Syracuse, Rochester, Buffalo, and Pittsburgh. It is easily accessible by bus, airline, and automobile. Interstate 80 passes fifteen miles south of Williamsport; U.S. Routes 15 and 220 come through the city.

CAMPUS LIFE

A full program of cultural, professional, athletic, and social activities is an integral part of college life at Lycoming. You can find outlets for your talents, interests, and abilities among the numerous student organizations—fraternities, departmental clubs and honorary societies, student government, publications, and a comprehensive variety and intramural sports program—each abounding in opportunities for student participation. Student Council, The Campus Church, Student Union Board, and other campus organizations bring in a variety of talent and speakers.



WEST STUDENT CENTER

LYCOMING
COLLEGE

LIBERAL ARTS
EST. 1825

LYCOMING
COLLEGE

SPECIAL OPPORTUNITIES

The changing nature of American education finds greater emphasis than ever before upon the development of significant opportunities for self-fulfillment among students. Pertinent educational goals demand that you shall be accorded an opportunity to pursue a program that offers you the best chance to realize your intellectual potential. It is for this reason, that Lycoming has developed a curriculum that allows a maximum flexibility in course selection, especially among those courses that support the major as well as those that effectively meet the requirements of the College's objectives in liberal education. But wide variety in course selection does not always allow as completely individualistic a program as one might wish. Therefore, a variety of special opportunities is provided.

LYCOMING SCHOLAR PROGRAM

The Lycoming Scholar Program challenges a selected number of imaginative, creative students who have the interest and discipline to design and complete a unique, personal academic program. As a scholar, you share responsibility with your advisor in accomplishing the aims of the College's established distribution requirements without necessarily completing the specific courses.

A course of study proposed by you and your advisor is reviewed periodically by the Lycoming Scholar Council composed of the dean of the College, four professors, and four scholars elected by their fellows. As a part of the program recent freshmen scholars have participated in a special credit seminar for one or two semesters, and seniors have taken a non-credit seminar which has included scholar's reports on special projects. But, consistent with the nature of the Scholar Program, these activities may change in the future.

As a scholar, you complete the same number of unit courses as other students, but the Scholar Council can revise all other graduation requirements to assure that you achieve your previously approved objective. This flexibility gives the Scholar Program an experimental aspect which allows students and faculty to try new approaches. Several ideas tried in the Scholar Program and proven workable have been successfully established in the general college program. The Scholar Program should continue to be a fertile source of innovation and change within the College.

If this kind of experimental program appeals to you, you may be selected for membership in one of two ways:

1. You can be elected before enrollment at Lycoming through interviews by faculty members and current scholars; the Council makes the final decision.
2. You may be selected after enrollment on the basis of your performance and interests. The requirements now include a grade-point-average of 3.25 or higher for the two semesters prior to application, recommendations from two professors, and approval by the Scholar Council.

Being a Lycoming Scholar involves individual study and group participation. An important goal of the program is continued development of a community of learners. It is possible to be dropped from the program for either of two reasons. If your grades drop below a satisfactory level (currently 3.0 on a 4.0 scale) the Council decides whether or not you should continue. If it becomes evident that you are no longer interested in the program and its goals, you may be dropped.

If you are interested in the program, contact the Chairman of the Lycoming Scholar Program. It should be noted that no financial aid is automatically granted to a Lycoming Scholar for study at Lycoming, on other campuses, or for off-campus study or projects in this country or overseas. However, all Lycoming Scholars are given careful consideration when selection of one of the special aspects of the program places an additional financial burden on the student and his family. Scholars and potential scholars should consult the financial aid office for the answer to any question not covered in the Financial Aid section.

SPECIAL PROGRAMS

MAY TERM

Each year a unique *May Term* is designed to offer a challenging array of special courses. Some of the four-week courses offer study and projects on campus, others involve nearby, distant, or foreign travel, and several encompass interdisciplinary credit. Many are non-traditional in content.

In May 1972 forty-seven courses included such diverse topics as quantitative decision models, utopias in America, occult phenomena, speleology, and the professional world of business. Courses offered included such varied titles as "Seminar in Bioethics", "Ethnic and Religious Provincialism", "Labor-Congress Relationship", "Behavior Modification Techniques for Children", "Introduction to Oceanography and Marine Biology", "Ornithology", "Color Theory", and "Managing the Small Business" to name a few.



A number of 1972 *May Term* courses involved travel in varying degrees. A two-week hike on the Appalachian Trail was an experiment in basic survival designed to enable the students to grasp the concept of the Savage in literature as a part of an English course called "The Noble Savage". Another example was a "Sociology Field Experience" which had students combine anthropological and sociological field methods to analyze the tri-cultural community of Espanola, New Mexico.

On the foreign front, a "Business Abroad" course offered students an opportunity to study current management theory and practice abroad by means of a European Tour. "A Cultural Tour of the U.S.S.R." enabled students to experience Russian culture in Moscow, Leningrad, Kiev, and Odessa.

During the *May Term* a "Field Archeology" course at a Williamsport area Indian site introduced students to the theory and methods they applied in a later dig in Israel, part of a summer session "Field Palestinian Archeology" course which also convened in England, Egypt, Cyprus, Greece, and Italy.

The 1972 *May Term* was held May 8th to June 2nd. Classes met at 9:00 a.m. or 1:00 p.m. unless scheduled on some "arranged" basis. Costs were: Tuition for one (unit) course - \$150, Room - \$50, Board - \$75.

INDEPENDENT STUDY

Each department granting a major provides opportunity to students to work independently. Upon consent of the department head and the instructor, you may register for courses in Independent Study. Normally, the opportunity for such study is provided for the better qualified major student who has successfully completed the courses making up the core of his major program. Except under unusual circumstances, registration for the Studies course is limited to one unit course during each semester. If you wish to elect more than one unit during a semester or three or more unit courses in Studies in your total college program, approval of the Academic Standing Committee must be secured. If you are privileged to do Independent Study you register for courses 80-89, Studies. An appropriate title is entered in your record.

SEMINAR STUDY

Individual departments may from time to time find it possible to organize small classes or seminars for exceptional students interested in subjects or topics not usually a part of departmental course offerings. Establishment of the seminar and admission of students depends upon the approval of the department involved. Occasionally, Visiting Professors, Lecturers, or Specialists in Residence will offer such seminar studies. Students who are privileged to elect Seminar Study in any department register for courses numbered 70-79—Studies, with an appropriate title to be entered upon the student's permanent record. Enrollment in seminar courses is normally limited to ten students.

DEPARTMENTAL HONORS

If you desire to enter an Honors program and secure departmental approval to apply, a faculty committee shall be convened whose initial responsibility shall be to pass upon your eligibility to enter the program. The committee responsibility shall also include the direction of the study, and final evaluation of its worth. Usually the Honors program involves independent study in two consecutive unit courses. Students who are privileged to elect Honors register for courses numbered 90-99.

Honors study is expected to result in the completion of a thesis to be defended in a final oral examination. Acceptable theses shall be deposited in the college library. Successful completion of the Honors program will cause the designation of honors in the department to be placed upon the permanent record. In the event that the study is not completed successfully, the student shall be re-registered in Independent Studies and given a final grade for the course.

WASHINGTON SEMESTER

Upon recommendation of the faculty of the Department of Political Science, you may be permitted to attend The American University, Washington, D.C., for a period of one full semester. The Washington Semester program is intended to provide a first-hand acquaintance with various aspects of the nation's capital, as well as an academic experience equivalent to four normal unit courses. This program is open to selected students who have special interests in political science, law, and American government. Ordinarily, only junior students are eligible.



INTERNATIONAL INTERCULTURAL STUDIES

WASHINGTON INTERNATIONAL SEMESTER

Upon the recommendation of the faculty of the department of political science, you may attend The American University, Washington, D.C. for a period of one full semester. The Washington International Semester is intended to provide a unique academic experience in international affairs within the milieu of a major world capital.

UNITED NATIONS SEMESTER

Upon recommendation of the faculty of the departments of history or political science, you may attend Drew University, Madison, New Jersey, for a period of one full semester. The United Nations Semester is intended to provide a first-hand acquaintance with the United Nations, New York City, as well as an academic experience equivalent to four normal unit courses. This program is open to selected students who have special interests in world history, international relations, law, and politics. Ordinarily, only junior students are eligible.

LONDON SEMESTER

Upon recommendation of the faculty of the departments of history or political science, you may attend London University for a period of one semester. This program is operated by Drew University in conjunction with many other American colleges. It is intended to acquaint the student with the character of one of the principal sources of American law and politics as well as to provide an academic program equivalent to four normal courses. Ordinarily, only junior students are eligible.

OVERSEAS STUDIES OPPORTUNITIES

Under auspices of approved universities or agencies, you have an opportunity to study in a foreign university. While overseas study is particularly attractive to students majoring in foreign languages, this opportunity is open to all students. Mastery of the foreign language is not required in all programs. A file of opportunities for overseas study is available from the reference librarian or the faculty coordinator of overseas study programs.

SUMMER IN THE NEAR EAST

A unique opportunity to study and travel abroad during approximately ten weeks of the summer is available to Lycoming students. The summer begins with visitation of some European countries, followed by study and travel in a few Near Eastern countries. Integral to the program is participation as volunteers in an archeological excavation in Israel. Throughout the summer emphasis is placed upon both ancient and modern aspects of the cultures found in each country.

Basic costs for 1972 were \$1,350 and included tuition for three (3) unit courses (equivalent to twelve semester credits), air fare, room, and partial board. Countries visited in 1972 were Germany, Italy, Egypt, Cyprus, Israel, and Greece. Students interested in this program should consult the coordinator for Near East Interdisciplinary Studies.

It should be noted that Lycoming College cannot assume responsibility for the health, safety, or welfare of any student while he or she is engaged in or enroute to or from any off-campus studies or activities which are not under the exclusive jurisdiction of this institution.



CAREER OPPORTUNITIES

Courses of study at Lycoming College are designed to fulfill two specific but interrelated purposes. The first is to acquaint you with your cultural heritage. The second is to provide you with an opportunity to explore, from an elementary to an advanced level, various fields that may lead to a vocation or direct you toward professional or graduate schools. A wide variety of vocations may be entered directly upon graduation. These include positions in business, industry, government, and the professions, including teaching. A student interested in any of these areas is referred to his advisor, to the appropriate department, or to a special assigned advisor.

ACCOUNTING

There are many reasons for continued rapid growth of the accounting profession in the foreseeable future. Lycoming offers a rigorous comprehensive program of undergraduate training in accounting leading to the bachelor of arts. The most important aspect of an accountant's service to clients and to the public cannot be defined as knowledge, nor even as experience, but must be described by more elusive terms: wisdom, perception, imagination, circumspection, judgement, integrity. A liberal arts education followed by training on-the-job offers you the best background for a successful career in accountancy. The academic standards are such as to require you to be proficient in math; have an above-average ability to communicate ideas verbally and in written form; show a potential ability to express and to interpret abstraction; and demonstrate a personality capable of developing qualities of business and community leadership. Interested? Contact the Accounting Department Chairman.

BUSINESS

Lycoming offers course work in the field of business administration particularly designed for training prospective business leaders. Business is a highly diversified occupation; therefore the curriculum is not designed to be vocational or narrowly pre-professional. The purposes of the business administration curriculum are to train and equip your mind to recognize and solve complex problems facing business executives, to develop an appreciation for rigorous analysis, to practice the arts of verbal and written communication, and to expose the developing mind to as wide as possible a range of course work represented by the traditional liberal arts curriculum, to the end that you become truly well educated. Considerable flexibility is permissible within the curriculum and you are encouraged to pursue course work most rewarding to you.

TEACHER EDUCATION

Lycoming prepares teachers for elementary and secondary schools. The programs are approved by the Pennsylvania Department of Education for the certification of elementary teachers and for secondary teachers in the following areas: Biology, Chemistry, Communication, English, French, General Science, German, Mathematics, Physics, Russian, Social Science, and Spanish. Pennsylvania certificates are recognized in many other states either through reciprocal agreements or by transcript evaluation.

The excellent facilities of the public schools in Williamsport and the surrounding areas are used by education students for observations, participation experiences, and practice teaching.

Lycoming feels that the best preparation for future teachers is based on the liberal arts. Therefore, all education students complete a liberal arts major in addition to the education requirements.

Normally freshmen are not admitted to education courses. However, freshmen interested in certification should arrange an early consultation with a member of the Education Department faculty. At this time, specific information will be supplied along with a suggested curriculum to meet individual requirements.

Application for practice teaching must be made before October 1 of the junior year. Admission to the professional semester is limited and selective. Final approval for student participation in the professional semester is granted by the Teacher Education Committee.



RELIGIOUS EDUCATION

If you desire extensive study in biblical history and literature, the historical development of Christianity, and Christian doctrine, you may major in religion. If you plan to enter the vocation of religious education, you should, besides majoring in religion, elect five or six unit courses in psychology, education, and sociology. This program of study, completely within the liberal arts curriculum, will qualify you for work as an Educational Assistant, or after graduate study in a theological seminary, as a Director of Religious Education. You are invited to contact the Director of Religious Activities for further information on the opportunities, responsibilities, and requirements of these and other church vocations.

MEDICAL TECHNOLOGY

The Medical Technology curriculum is organized around an academic background of basic science courses in addition to those liberal arts courses listed as requirements for the bachelor of arts degree. Preparation at Lycoming for a career in medical technology may be made in either of two ways: the attainment of the B.A. followed by a clinical internship at any accredited hospital, or by completion of the Lycoming Cooperative Program.

If you elect to follow the Cooperative Program in Medical Technology, you will normally spend three years at Lycoming. During this time you must satisfy the general college distribution and major requirements, and must successfully complete twenty-four unit courses, including four in chemistry, six in biology, and two in mathematics. Three-year students usually major in biology, where they are eligible to follow a modified major of six unit courses which exempts them from two biology core courses, Ecology (Biology 24) and either, but not both, Animal Physiology (Biology 23) or Cell Physiology (Biology 20). Also required as part of the Cooperative Program is the successful completion of a one-year internship at one of Lycoming's affiliated hospitals, currently Williamsport Hospital, Divine Providence Hospital, Robert Packer Hospital, Lancaster General Hospital, and Abington Hospital. Three-year students will be given Lycoming credit for each of eight unit courses in biology and chemistry taken during the clinical internship and will graduate from Lycoming at the first commencement following successful completion of the internship. Lycoming does not consider the Registry examination a requirement for graduation.

If you decide to graduate from Lycoming before entering a hospital program, you may major in any department of your choice, and at the same time satisfy ASCP and hospital admission requirements. Once graduated from Lycoming, you may apply for admission to a clinical program at any hospital of your choice.

If you are interested in a medical technology career, you should contact members of the Medical Technology Coordinating Committee or chairman of the biology department before finalizing course decisions.

COOPERATIVE PROGRAM IN ENGINEERING

Consistent with increased attention being given nationally to engineering education, Lycoming offers a cooperative curriculum combining the manifold advantages of a small liberal arts college with the training to be secured at an engineering school. By arrangement with Bucknell University and The Pennsylvania State University, the colleges offer a five-year program in which the first three years are spent at Lycoming and the final two at the engineering school. Upon completion of the first year at the engineering school, your record will be sent to Lycoming. If the work is satisfactory, Lycoming will award the bachelor of arts degree. Upon the completion of the five-year program of studies, a bachelor of science in engineering is awarded by the engineering school. Combined programs offer an opportunity for completion of studies in the following areas: Bucknell University: chemical, civil, electrical, or mechanical engineering; The Pennsylvania State University: aeronautical, civil, electrical, industrial, mechanical, or sanitary engineering.

Prescribed work at Lycoming includes, in addition to degree requirements outlined above, courses in chemistry, mathematics, and physics. Because the demands of the engineering curricula may differ somewhat, a program of studies at Lycoming will be designed for you when your plans as to type of engineering program preferred have been finally fixed. The chairman of the physics department will aid you in planning your program.

COOPERATIVE PROGRAM IN DRAMA

The American Academy of Dramatic Arts and Lycoming each recognize appropriate courses given by the other institution. At Lycoming an exception is made in the residency requirement for graduation (page 53). Normally, in the case of the transfer student who is a graduate of the American Academy of Dramatic Arts and recommended by them and who has completed two years successful study at an accredited college or university, the residency requirement is two summers with The Arena Theatre and two consecutive semesters in an academic year. Summer session course work may be required. Each case is subject to review. The affiliation with the Academy permits a graduating Lycoming senior to be eligible for advanced standing at the Academy upon recommendation of the Lycoming College theatre department chairman and acceptance by the Academy. For information contact the theatre department chairman.



COOPERATIVE PROGRAM IN FORESTRY

Professional and scientific programs of study in forestry for men and women are offered in cooperation with the School of Forestry, Duke University. You will spend three years in residence at Lycoming and an additional five semesters at Duke. Upon satisfactory completion of two semesters at Duke you will have earned the A.B. degree from Lycoming, and upon completing the remainder of the program will be awarded either the M.F. or M.S. degree from Duke, depending upon the nature of the program.

You should indicate to the Admissions Office that you wish to enroll in the Forestry program. At the end of the first term of the third year, Lycoming recommends qualified students for admission to the Duke School of Forestry. No application need be made to the School of Forestry before then.

Major fields of forestry at Duke are:

FOREST RESOURCE ADMINISTRATION

Forest Resource Management
Forestry Business Management
Forest Protection
Forest Resource Economics and Policy
Biometry & Statistics
Systems Analysis

FOREST SCIENCE

Forest Ecology
Forest Entomology
Forest Pathology
Tree Physiology
Tree Biochemistry
Dendrology & Wood Anatomy
Forest Hydrology
Forest Meteorology
Forest Soils

If you are interested in *Forest Resource Administration* you are advised to elect a concentration in biology, business management, mathematics, economics, computer science, statistics, or sociology. If you plan a career in *Forest Science*, you should strengthen your backgrounds in biology, chemistry, mathematics, and physics. Typical programs in fields offered at Duke are available upon request from the Dean of the School of Forestry, Duke University, Durham, North Carolina 27706. More information is available from the chairman of the biology department.

PREPARATION FOR GRADUATE STUDY

Many careers today require advanced study beyond the bachelor of arts degree. In general, preparation for graduate work in one of the academic disciplines should include a broad base of liberal studies, a strong undergraduate major, and adequate supporting work in closely related fields. You can design an individual major to meet the needs of some of the newer graduate level interdisciplinary programs. Often graduate departments ask that a prospective student's competence be measured by the national Graduate Record Examinations. They usually require a reading knowledge of one or two foreign languages. You should consult departmental advisors early in your college years with respect to planning for entrance to graduate school.

PREPARATION FOR HEALTH PROFESSIONS

The curriculum for the pre-Health Professions (allopathic medicine, dental medicine, optometric medicine, osteopathic medicine, podiatric medicine, and veterinary medicine) are all organized around a solid foundation in biology, chemistry, English, mathematics, and physics. A wide range of subject matter from the humanities, social sciences, and fine arts should be included in the program. At least three years of undergraduate study is recommended before entry into the professional school; the normal procedure is to complete the bachelor of arts degree.

You should indicate to the Admissions Office, when completing the application to Lycoming College, that you wish to enroll in the pre-Health Professions (various fields of medicine) program. The Health Professions Advisory Committee will advise you concerning preparation for and application to a health professional school.

PREPARATION FOR THEOLOGICAL SEMINARY

If you are a young man or woman interested in the Christian ministry or related vocations, you can find the pre-ministerial curriculum at Lycoming an exciting and challenging opportunity. Basic courses specified by the American Association of Theological Schools are virtually identical with the program of courses required for a bachelor of arts degree. Such courses offer a wide range of subject matter presenting many opportunities for you as a pre-ministerial student to acquaint yourself with the broad scope of human experience. Preparation for seminary includes earning a bachelor of arts degree with a major in one of a variety of fields such as religion, English, history, and philosophy. So that you may have a curriculum designed to fit your individual needs, the offerings in the junior and senior year are largely elective. The choice of electives will depend upon the requirements of the theological school which you expect to attend. If you are interested, contact the Director of Religious Activities.

PREPARATION FOR LAW SCHOOL

Many colleges of law require a Bachelor of Arts degree for admission. The four-year degree program in pre-law at Lycoming College provides a background for the prospective student of law. Requirements include courses in political science and history, but also specified is a wide range of subject matter designed to acquaint you with the vast scope of human experience.

You may expect to major in economics, history, political science, or related fields as you prepare for matriculation in law school. Individual programs are tailored to fit your needs as well as to meet the specific requirements of the law school to which you apply for admission. Interested students should contact the political science department chairman.



ACADEMIC PROGRAM

Lycoming College is a liberal arts institution granting the bachelor of arts degree. A degree candidate must fulfill certain minimal course requirements in breadth of learning—the distribution requirements—and in depth of learning in a chosen subject matter field—the major.

GRADUATION REQUIREMENTS

Every degree candidate must complete the following degree requirements:

1. Pass a minimum of thirty-two (32) unit courses with an average of 2.0 or better within the limit of thirty-eight (38) unit courses (or the equivalent) taken. In case of withdrawals, the attempted course will be considered one of the total number of courses permitted, except in the case of withdrawals for medical or psychological reasons.
2. Complete a major consisting of at least eight (8) unit courses.
3. Achieve an average of 2.0 or better for all courses counted in the major.
4. Complete the Distribution Requirements, except Lycoming Scholars.
5. Complete the final eight courses offered for the degree at Lycoming.
6. Earn one year of credit in Physical Education.*
7. Satisfy all financial obligations incurred at the College.
8. Complete the above seven requirements within seven years of continuous enrollment following the date of matriculation. All exemptions or waivers of specific requirements are reviewed by the Committee on Academic Standing.

*Exemption, for medical reasons, from participation in physical activity associated with physical education may be granted only by the College Physician who considers your medical history, your physician's report, and his own physical examination of you.

COURSE WORK

Instruction at Lycoming College is organized, with few exceptions, on a departmental basis. Nearly all courses are unit courses, meaning that each course taken by you is considered to carry the same academic value as any other course. For transfer purposes each course is considered to be equivalent to four semester hours of academic work. This does not mean that all courses will meet for four one-hour lectures each week, although many will do so. Rather, each course meets on a schedule set by the department and the instructor involved. Such meetings may be on a lecture, discussion, laboratory, or tutorial basis. Varying amounts of additional study, reading, writing, and research will be required for each course. Most students elect four unit courses each semester. Students may elect to enroll in five (5) courses during any semester provided they were admitted to the Dean's List during the preceding semester while carrying at least four unit courses. Exceptions may be made by the Committee on Academic Standing. You can accelerate by taking courses in the May Term and summer sessions.

MAJORS

You are required to complete a series of courses in a field of concentration. This is accomplished by completing one of the following type of majors:

Departmental Major, Established Interdisciplinary Major, or Individual Interdisciplinary Major.

DEPARTMENTAL MAJORS

Departmental majors, as described beginning on page , are available in:

Accounting	History	
Art	Mathematics	
Biology	Music	
Business Administration	Philosophy	
Chemistry	Physics	
Economics	Political Science	
English	Psychology	
Foreign Languages	Religion	
French	Russian	Sociology and Anthropology
German	Spanish	Theatre

You may complete two majors; each will be recorded on your record.

ESTABLISHED INTERDISCIPLINARY MAJOR (EIM)

An Established Interdisciplinary Major (EIM) can be elected instead of a departmental major. Two or more departments work together to establish an EIM which must be approved by the Committee on Special Studies. The following EIM's, as described beginning on page , are available:

Accounting-Mathematics	Soviet Area Studies
Near East Culture and Archeology	Literature

INDIVIDUAL INTERDISCIPLINARY MAJOR (IIM)

You may take the initiative and design a unique Individual Interdisciplinary Major (IIM) in consultation with your faculty advisor. You may apply for approval of an IIM to the Committee on Special Studies via the Registrar, who will provide a copy of the *Guidelines For Interdisciplinary Majors* and other necessary forms.

Individual Interdisciplinary Majors usually involve two or more departments which each already offer a major. An IIM is normally comprised of a minimum of ten courses beyond those satisfying distribution requirements. If the IIM involves departments not included in meeting the distribution requirements, then the ten courses may include elementary courses usually used to satisfy distribution requirements. However, you are expected to take at least six courses at the advanced (junior or senior) level as determined in consultation with your advisors. Changes in this set of courses comprising the major, which may be desired or needed as you progress, must be authorized by the Committee on Special Studies.



As an IIM student, you are advised by a committee composed of one professor from each department involved. You choose the chairman who functions as the advisor of record, maintains your records, etc. The Committee on Special Studies must certify the successful completion of the IIM for graduation.

Your transcript will show:

Interdisciplinary Major in (Departments), for example:
Interdisciplinary Major in Urban Studies (History, Psychology, Sociology).

POLICY ON ADMISSION TO MAJOR

If you desire an established interdisciplinary major (EIM) or departmental major (DM), you must declare your elected major, in the Office of the Registrar, no later than the beginning of your junior year.

If you desire an individual interdisciplinary major (IIM), you must apply to and secure the approval of the Committee on Special Studies in conformity with established policy.

If the Committee on Special Studies, the Coordinating Committee for an EIM, or a department feels that legitimate reasons exist which may warrant removal from major status, that committee or department must submit these reasons, in writing, to the Dean of the College who, after consultation with you, will decide whether or not you are to be removed from major status. The Committee on Special Studies, the Coordinating Committee for an EIM, the department, or you may appeal the decision of the Dean of the College to the Committee on Academic Standing which will either sustain or modify the decision of the Dean of the College. As in all cases of student appeals, the final appeal is to the College president.

If you have not declared an EIM or DM or have not had an IIM approved by the Committee on Special Studies by the beginning of your junior year, you are subject to dismissal from the College.

ACADEMIC ADVISEMENT

An advantage of a small college is the rich experience gained by the close association of students and faculty. The counseling program at Lycoming enables you to discuss various academic problems with your instructors, the Dean of the College, and the Dean of Student Services.

As an entering Freshman, you are assigned to a faculty adviser who meets with you as needed during the year. You will find your adviser willing to guide and assist in the many problems that confront a new college student. If, as an upperclass student, you do not feel the need for a formally assigned adviser, you may assume the responsibility for meeting your degree requirements.

THE DISTRIBUTION REQUIREMENTS

One of the reasons a student chooses to come to Lycoming is a desire to obtain a breadth of knowledge in many areas, a liberal arts education. A student who deliberately elects to attend a liberal arts college is interested in more than training in a narrow major; he wants knowledge in an area of special interest, his major, amplified by exploration into kindred and “unrelated” fields.

Lycoming College, being a liberal arts institution, insists that a major program of study be supported and challenged by the influences of a diversity of subjects. The major must not become narrow in its vision and sterile in its ability to help you function effectively in a world where nothing is neatly isolated and compartmentalized. The College believes that the essence of liberal education is its potential for exposing you to the multitude of historical, traditional, and contemporary avenues of thought and action which are brought to light in different ways through the study of various disciplines.

By taking different kinds of subjects, you can discover numerous ways of seeing things. You can gain the advantage of learning to view events and approach problems and questions from various points of view. You can discover that the interpretation of events and the relevance of solutions and answers will vary greatly for different individuals and groups.

To have you achieve at least a minimal insight into this multiplicity of perspective, thought, and reaction, Lycoming requires that you select some of your courses from six groups of courses as outlined below. The aim is not the garnering of specific, prescribed information, but rather, the development of a broadly based perspective of all aspects of life.

The distribution requirements in English, Mathematics, Fine Arts, Natural Science, and History and Social Science may be met by superior performance on the General Examinations of the College Level Examination Program. Further information may be obtained from the Office of the Registrar.

ENGLISH

You are required to pass English I and one other English course. This requirement is usually completed in the Freshman year.

FOREIGN LANGUAGE OR MATHEMATICS

You are required to meet a minimum basic requirement in *either* a foreign language or mathematics.

Mathematics. If you elect mathematics, you must complete four courses in mathematics. By passing proficiency examinations on the content of Mathematics I and Mathematics 2, you may reduce this requirement to two other courses. These exams are offered during the Freshman Orientation.

Foreign Language. If you elect to take a foreign language, you may choose from among French, German, Greek, Hebrew, Russian, or Spanish. You are required to pass two courses on the intermediate or a higher course level. Placement at the appropriate course level will be determined by the faculty of the department of foreign languages. No student who has had two or more years of a given foreign language in high school shall be admitted to the elementary course in that same language for credit, except by written permission from the chairman of the department.

RELIGION OR PHILOSOPHY

You are required to pass one year (two courses in the same subject) in either philosophy or religion.

Philosophy. You may take any two philosophy courses.

Religion. The distribution requirement may be satisfied by completing two religion courses, at least one of which must be 10, 13, or 14.

FINE ARTS

You are required to pass one year (two courses) in *one* of the following:

Art. You may take any two art courses.

Literature. You may elect two literature courses in one of the following: English, French, German, Russian, or Spanish. These courses must be in addition to those taken to fulfill other distribution requirements.

Music. Any combination of music courses totaling the equivalent of two full-unit courses (academic full-unit courses—Music 1 through 46 and Music 70's; or applied fractional unit courses—Music 60 through 69) will satisfy this requirement. You can earn the equivalent of two full units in Music in one of the following ways:

1. Take two full-unit academic courses from those numbered Music 1 through 59 and Music 70's,
2. Take a total of two full units of applied music, from courses numbered Music 60 through 69, which are earned fractionally as follows:
 - A. 1/10 unit per semester for one half-hour of instruction per week in courses numbered 60 through 66.
 - B. 2/10 unit per semester for one hour of instruction per week in courses numbered 60 through 66.
 - C. 2/10 unit per semester for music 67, 68, or 69.
3. Take one full-unit academic course (Music 1 through 59 and Music 70's) plus the equivalent of one full-unit course (10/10) earned fractionally in applied music courses 60 through 69 as explained in "2" above.

Theatre. Any two theatre courses 10 and above will satisfy this requirement.

NATURAL SCIENCE

You are required to pass one year (any two courses) in *one* of the following: biology, chemistry, or physics.

HISTORY AND SOCIAL SCIENCE

You are required to pass one year (two courses) in *one* of the following:

Economics. You may take any two courses.

History. You may take any two courses.

Political Science. You may take any two courses.

Psychology. You may take Psychology 10 plus one course usually chosen from among Psychology 15, 16, 30, 31, 32, or 38.

Sociology and Anthropology. You may take Sociology 10 plus another course.

NOTE: A course can be used to satisfy only one distribution requirement.



GRADING SYSTEM

The College uses the traditional letter system of grading: A B C D F or Satisfactory/Unsatisfactory. Any student enrolled full-time at Lycoming College may elect to take up to a maximum of four courses on a Satisfactory/Unsatisfactory basis. Only one course may be taken on this basis during any semester. No course taken by a student on a S/U basis after the declaration of his major and approval by the department involved may be used to satisfy a requirement of that major.

You must be in good academic standing in order to elect a course on the Satisfactory/Unsatisfactory basis during a summer session. By the fourteenth day after the first day of class, you must declare, in the Registrar's Office, your intentions to be graded on a S/U basis. The grading procedure cannot be changed after this declaration. Unless you choose to do so yourself, instructors will not be notified of the decision to elect the S/U option. Those students admitted to the College Scholar Program may elect to enroll in four courses on a Satisfactory/Unsatisfactory basis in addition to those courses in the College Scholar Program where enrollment on a S/U basis may be required. Enrollment in these four courses will be according to the regulations of the Satisfactory/Unsatisfactory policy established by the Faculty.

You will receive full credit for a course passed with a Satisfactory grade. Neither the "S" nor the "U" count in computing the grade point average.

Incomplete grades may be given if you, for absolutely unavoidable reasons, have not been able to complete the work requisite to the course. Such circumstances usually stem from medical sources. An incomplete grade must be removed within six (6) weeks of the next regular semester.

MID-SEMESTER EVALUATIONS FOR FRESHMEN

Mid-Semester evaluations are reported for freshman students whose work is unsatisfactory. These reports are filed with the Registrar who then reports them to the students concerned and their faculty advisors. The evaluation report from the instructor may be one of two types: (a) submission of a letter grade of "D" or "F" (b) submission of a written evaluation for those freshmen who are performing below the satisfactory level.

ACADEMIC STANDING

All students must complete a minimum of sixteen (16) unit courses with an average of "C" or better to be advanced to the junior year. A student whose cumulative or semester average falls below "C" is considered to be in academic difficulty and his academic record will be reviewed by the Committee on Academic Standing. Such students may be placed on academic probation, suspended, or dismissed by the Committee on Academic Standing according to regulations established by the Faculty.

ACADEMIC HONORS

The Dean's List is issued at the close of each semester in recognition of superior scholarship. Students are admitted to the Dean's List when they have completed at least three courses with other than S/U and have a minimum grade point average of 3.50 for the semester.

You may be awarded the bachelor of arts degree with honors when you have earned the following grades:

Bachelor of Arts, summa cum laude—a 3.90 grade point average.

Bachelor of Arts, magna cum laude—a 3.50 grade point average.

Bachelor of Arts, cum laude—a 3.25 grade point average.

High quality scholarship is also recognized by completion of a departmental honors program and by election of students to membership in Honor Societies.

WITHDRAWING FROM COURSES

You may drop any course during the first two weeks of classes and no record of such enrollment shall be made on your permanent record card. You may also add any course during the first two weeks of classes, subject to the approval of the instructor. If you wish to drop a course after the second week of classes, you must secure a withdrawal card from the Office of the Registrar. You must present this card to the instructor of the course in question who will then assign one of the following grades:

W—Progress at the time of withdrawal cannot be determined.

WP—Progress at the time of withdrawal is satisfactory.

WF—Progress at the time of withdrawal is unsatisfactory.

This grade is then entered on your permanent record card. No withdrawal grade is counted in the computation of the grade point average, but the course from which you withdraw is counted as one of the thirty-eight (38) unit courses to which you are limited in completing your degree requirements at Lycoming.

CLASS ATTENDANCE

The academic program at Lycoming is based upon the assumption that there is value in class attendance for all students. Individual instructors have the prerogative of establishing reasonable absence regulations in any course. You are responsible for learning and observing these regulations.



ACADEMIC HONESTY

The integrity of the academic process of the College requires honesty in all phases of the instructional program. The College assumes that students are committed to the principle of academic honesty. Students who fail to honor this commitment are subject to dismissal from Lycoming. Procedural guidelines and rules for the adjudication of cases of academic dishonesty are printed in the *Faculty Handbook* available to students in the library.



INTERDISCIPLINARY MAJORS

ESTABLISHED INTERDISCIPLINARY MAJORS (EIM)

ACCOUNTING-MATHEMATICS

Co-ordinator—Assistant Professor Feldmann

The Accounting-Mathematics Interdisciplinary Major is designed to offer, within a liberal arts framework, courses which will aid you in constructing mathematical models for accounting decision making. You will obtain a substantial background in mathematics and a working knowledge in accounting.

Majors will be only four courses short of a math major and three courses short of an accounting major. Required accounting courses are: Elementary, Intermediate, Cost and Budgetary Accounting Theory. In Mathematics they are: Analytic Geometry and Calculus I, II, and III; and Linear Algebra; plus two courses from Differential Equations, Introduction to Numerical Analysis, and Mathematic Statistics I and II. Business courses required are Legal Principles I and II. Recommended courses include: Computer Science, Introduction to Statistics, Financial Management, Statistics Applied to Business, Insurance, Principles of Economics, Industrial Psychology, Social Psychology, and Introduction to Sociology.

LITERATURE

Co-ordinator—Associate Professor Maples

This major recognizes literature as a distinct discipline beyond national boundaries and combines the study of any two literatures in the areas of English, French, German, Russian, and Spanish. You can thus explore two literatures widely and intensively at the upper levels of course offerings within each of the respective departments while developing and applying skills in foreign languages. The major prepares you for graduate study in either of the two literatures studied or in Comparative Literature.

The major requires at least six literature courses, equally divided between the two literatures concerned. The six must be at the advanced level as determined in consultation with advisors (normally courses numbered 20 and above in English and 40 and above in Foreign Languages). In general, two of the advanced courses in each literature should be period courses. The third course, taken either as a regular course or as independent study, may have as its subject another period, a particular author, genre, or literary theme, or some other unifying approach or idea. Beyond these six, the major must include at least two additional courses from among those counting toward a major in the departments involved. Any prerequisite courses in the respective departments (for example, French 33, German 33, 34, Russian 33, 34) should be taken during the Freshman and Sophomore years. You should design your program in consultation with a faculty member from each of the literatures concerned. Programs for the major must be approved by the departments involved.

NEAR EAST CULTURE AND ARCHEOLOGY

Co-ordinator—Assistant Professor Lutz

The Near Eastern Culture and Archeology interdisciplinary major is designed to acquaint you with the “cradle of Western civilization”, both in its ancient and modern aspects. Majors will complete a minimum of eight to ten unit courses related to the Near East.

Required courses are described in their departmental sections and include:

1. Three courses (semesters) in language and culture from:
 - A. Old Testament Faith and History (Religion 13)
 - B. Religions of the World—Islam and Judaism (Religion 24)
 - C. History and Religion of the Ancient Near East (Religion 26)
 - D. Culture of the Ancient Near East (Religion 27)
 - E. Advanced Old Testament Topics (Religion 36)
 - F. Judaism and Christianity in the New Testament (Religion 40)
 - G. Two semesters of foreign language (Hebrew 11, 12; or independent study of related semitic languages.)
2. Two courses (semesters) in archeology from:
 - A. Palestinian Archeology (Religion 46)
 - B. Field Palestinian Archeology (Religion 47)
 - C. Advanced Palestinian Archeology (Religion 48)
3. Two courses (semesters) in related departments, such as: Art, History, Political Science, Religion, and Sociology and Anthropology. These two courses, usually taken in the junior or senior years, can be independent study. Topics should be related either to the ancient or the modern Near East and must be approved in advance by the committee supervising the interdisciplinary study.

Other courses may be required by the supervisory committee but not beyond requiring ten courses in the major. The number of courses taken within this program applicable toward fulfilling the College distribution requirements will vary according to the selection of courses you make.



SOVIET AREA STUDIES

Co-ordinator—Assistant Professor Winston

The Soviet Area Studies major is an interdisciplinary major designed to offer, within the framework of a liberal arts education, intensified study of the Soviet Union, communism, and related matters. The program enables you to acquire a broader perspective of the USSR than can generally be obtained within one discipline.

Required courses are described in their departmental sections and include:

1. Six semesters of Russian language and/or literature beyond the elementary level.
2. Topics in Russian and Soviet History (History 46 and 47).
3. Two courses (semesters) of Senior Seminar on the USSR.
4. Four courses (semesters) from:
 - Comparative Economic Systems (Economics 23)
 - Government of the Soviet Union (Political Science 36)
 - Foreign Policy of the Soviet Union (Political Science 37)
 - Social and Political Philosophy (Philosophy 22)
 - Modern Revolutions (History 36)

Under this program, up to nine courses required to satisfy the college distribution requirements can be completed from the above courses.

INDIVIDUAL INTERDISCIPLINARY MAJORS (IIM)

Registrar—Mr. Glunk

Individual Interdisciplinary Majors (IIM) usually involve two or more departments which each already offer a major. An IIM is normally comprised of a minimum of ten courses beyond those satisfying the distribution requirements. If the IIM involves departments not included in meeting the distribution requirements, then the ten courses may include elementary courses usually used to satisfy distribution requirements. However, you are expected to take at least six courses at the advanced (junior or senior) level as determined in consultation with your advisors. Any change in courses comprising the major, which may be desired or needed as you progress, must be authorized by the Committee on Special Studies.

An IIM student is advised by a committee composed of one professor from each department involved. You choose the chairman who functions as your advisor of record, maintains your records, etc. The Committee on Special Studies must certify the successful completion of the IIM for graduation. Your transcript will show:

Interdisciplinary major in _____ *(Departments), for example:*
Interdisciplinary major in Urban Studies (History, Psychology, Sociology).

COURSES

Numbers 1-9 Elementary courses in departments where such courses are not counted as part of the student's major.

Numbers 10-19 Freshman level

Numbers 20-29 Sophomore level

Numbers 30-39 Junior level

Numbers 40-49 Senior level

Numbers 50-59 Special Advanced Courses

Numbers 60-69 Special Sessions Courses

Numbers 70-79 Seminar Study

Numbers 80-89 Independent Study

Numbers 90-99 Independent Study for Departmental Honors

Courses in the 50-59, 70-79, 80-89, 90-99 number series are not listed under each department, but are in effect for each department and represent the particular studies listed opposite the numbers above (that is, seminar study for all departments fall in the 70-79 series, etc.).

Courses not in sequence are listed separately, as:

Introduction to Art	Art 10
Drawing I	Art 11

Courses which imply a sequence are indicated with a dash between, meaning that the first semester must be taken prior to the second, as:

Intermediate French	French 10-11
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ACCOUNTING

Associate Professor: Richmond (*Chairman*)
Instructor: Huber

The purpose of the major is to give students a thorough foundation in accounting theory, enabling them to enter the profession through public, private, or governmental employment. To achieve this, Accounting 10, 20-21, 30-31, 40, 41, and 43 are required. All majors are advised to enroll in four courses in Economics, including 10/11; Business 20-21, 23, 35, and 36; and Mathematics 5 and 8. Business 10 may be substituted for Accounting 10 if a student changes his major.

10 ELEMENTARY ACCOUNTING THEORY

An introductory course in recording, classifying, summarizing, and interpreting the basic business transaction. Problems of classification and interpretation of accounts and preparation of financial statements are studied. An IBM computer is used to solve some of these problems.

20-21 INTERMEDIATE ACCOUNTING THEORY

An intensive study of accounting statements and analytical procedures with emphasis upon corporate accounts. Price level adjustments, partnerships, joint ventures, installment and consignment sales, branch and home office accounting, and the statement of affairs are among topics studied. *Prerequisite: Accounting 10.*

30-31 COST AND BUDGETARY ACCOUNTING THEORY

Methods of accounting for material, labor and factory overhead expenses consumed in manufacturing using job order, process and standard costing. Application of cost accounting and budgeting theory to decision making in the areas of make or buy, expansion of production and sales, and accounting for control are dealt with. *Prerequisite: Accounting 21 or consent of instructor.*

40 AUDITING THEORY AND PRACTICE

The science of verifying, analyzing, and interpreting accounts and reports. An audit project is presented, solved and the auditor's report is written. *Prerequisite: Accounting 21.*

41 FEDERAL INCOME TAX ACCOUNTING AND PLANNING

Analysis of the provisions of the Internal Revenue Code relating to income, deductions, inventories, and accounting methods. Practical problems involving determination of income and deductions, capital gains and losses, computation and payment of taxes through withholding at the source and through declaration are considered. Planning transactions so that a minimum amount of tax will result is emphasized. *Prerequisite: Accounting 10 or consent of instructor.*

42 FEDERAL INCOME TAX ADMINISTRATION AND PLANNING

An analysis of the provisions of the Internal Revenue Code relating to partnerships, estates, trusts, and corporations. An extensive series of problems is considered and effective tax planning is emphasized. *Prerequisite: Accounting 41.*

43 CONTEMPORARY ACCOUNTING PROBLEMS

Certain areas of advanced accounting theory, including fund accounting, are covered, and problems are taken from past C.P.A. examinations which require a thorough knowledge of the core courses in their solution. The course is intended to meet the needs of those interested in public accounting and preparation for the Certified Public Accountants Examination. *Prerequisite: Accounting 31 or consent of instructor.*

ART

Assistant Professor: Shipley (*Chairman*), Hughes
Instructor: Ameigh
Part-Time Instructor: Fetter

A major consists of a balanced program of history of art and studio courses. In addition to the core courses of the major program (Art 11, 15 or 16, 20, 21, 22, 23, 30, and 46), the student will elect two advanced courses in art history. Art 25 and 35, or Art 28 and 38 may be substituted for Art 20 and 30. Majors will be required to present their better work in a one-man show during their senior year, which is prepared for in Art 46, Studio Research.

10 INTRODUCTION TO ART

Presents historical and contemporary styles of architecture, sculpture, painting, and the minor arts; considers the roles of the elements of design and of materials and techniques in the creation and appreciation of works of art.

11 DRAWING I

Study of the human figure with gesture and proportion stressed. Student is made familiar with different drawing techniques and media. Some drawing from nature. *Offered in alternate semesters with Drawing II and III.*

14 DESIGN FOR ELEMENTARY TEACHERS

A course designed to give each student the opportunity to explore, in his own creative style, ideas, techniques and methods for involving children in expressive activities through the use of a wide range of media in the making of prints, puppets, pictorial and design projects, simple modeling, mosaics, plaster casting, weaving and stitchery projects, simple jewelry and gift crafts, lettering projects, mobiles, stabiles, and other three-dimensional designs created from scrap materials.

15 TWO-DIMENSIONAL DESIGN

The basic fundamentals found in the two-dimensional arts; line, shape, form, space, color, and composition are taught in relationship to the other two-dimensional arts. Perceptual theories and their relationships to what and why we see what we see in art is discussed with each problem.

16 THREE-DIMENSIONAL DESIGN

An introduction to the uses of form and materials. Objects will be designed whose form follows function, such as kites; whose form follows expressive intent, such as plaster constructions or movie films.

20 PAINTING I

An introduction of painting techniques and materials. Coordination of color, value, and design within the painting is taught. Some painting from the figure. No limitations as to painting media, subject matter or style. *Prerequisite: Art 15.*

21 DRAWING II

Continued study of the human figure. Emphasis is placed on realism and figure-ground coordination with the use of value and design. *Prerequisite: Art 11.*

22 HISTORY OF ART

The development of the visual arts from prehistoric days to the Italian Renaissance.

23 HISTORY OF ART

The development of visual arts from the Italian Renaissance to Contemporary Art.

24 AMERICAN ART

Painting, sculpture, architecture, and the decorative arts in the United States between 1630 and the present.

25 SCULPTURE I

An introduction to the techniques, materials, and ideas of sculpture. Clay, plaster, wax, wood and other materials will be used. The course will be concerned with ideas about sculpture as expression, and with giving material form to ideas.

26 CRAFTS I

An introduction to the various craft materials, processes, design problems, and techniques involved in work in such crafts as clay, wood, fiber, metal, and plastics.

28 PRINTMAKING I

Practice of the techniques of silk-screen, wood-block, and linoleum-block printing. *Prerequisite: Art 11 and 15.*

30 PAINTING II

Emphasis is placed on individual style and technique. Artists and movements in art are studied. No limitations as to painting media, subject matter, or style. *Prerequisite: Art 20.*

31 MODERN ART

The chief works and movements of European painting and sculpture between 1880 and the present.

33 19TH CENTURY ART

Painting, sculpture, and architecture in Europe between 1760 and 1900.

34 ASPECTS OF THE RENAISSANCE

Painting, sculpture, and architecture of the Renaissance—15th and 16th century.

35 SCULPTURE II

A continuation of Art 25 or Art 16, with emphasis on independent projects and more complex technique. Casting of bronze and aluminum sculpture will be done in the school foundry. *Prerequisite: Art 16 or 25.*

36 CRAFTS II

More advanced experimentation with crafts materials, with greater emphasis upon good craftsmanship and aesthetic quality. *Prerequisite: Art 26.*

38 PRINTMAKING II

Further exploration of silk-screen printing techniques, practice of the techniques of engraving, drypoint, etching, and aquatint.

40 PAINTING III

Professional quality is stressed. There is some experimentation with new painting techniques and styles.

41 DRAWING III

Continued study of the human figure. Individual style and professional control of drawing techniques and media are now emphasized.

46 STUDIO RESEARCH

Independent research in an elective studio area, conducted under the supervision of the appropriate faculty member, includes preparation of works for one-man senior exhibition. Student works in private studio assigned by the department.



BIOLOGY

Associate Professor: Kelley
Assistant Professor: Angstadt (*Chairman*), Diehl, Green,
Mayers, Sherbine
Instructor: Stebbins

A major consists of eight courses including Biology 10-11, 20, 21, 22, 23, and 24. In addition, one year each of chemistry and mathematics is required. Certain specific exceptions to the core program will be made for three-year students enrolled in cooperative programs. Such exceptions are noted under the particular cooperative program heading in the Career Opportunities section of the catalog and students interested in these programs should contact the Program Director before finalizing their individual program.

3 FIELD BIOLOGY FOR TEACHERS

A methods course for students preparing to teach biology. Sources and methods of collecting and preserving various plant and animal materials. *Offered in the summer only.*

10-11 PRINCIPLES OF BIOLOGY

An investigation of biological principles including ecological systems, form and function in selected representative animals and plants, cell theory, molecular biology, reproduction, inheritance, adaptation, and evolution.

20 CELLULAR PHYSIOLOGY

Physico-chemical background of cellular function; functions of membrane systems and organelles; metabolic pathways; biochemical and cellular bases of growth; development and responses of organisms. *Prerequisite: Biology 10-11.*

21 MICROBIOLOGY

A study of micro-organisms: bacteria, viruses, protozoa, and fungi. Emphasis is given to the identification and physiology of micro-organisms as well as to their role in disease, their economic importance and industrial applications. *Prerequisite: Biology 10-11.*

22 GENETICS

A general consideration of the principles governing inheritance including treatments of classical, molecular, cytological, physiological, microbial, human and population genetics. *Prerequisite: Biology 10-11.*

23 ANIMAL PHYSIOLOGY

The mechanisms and functions of animal systems including the autonomic, endocrine, digestive, cardio-vascular, respiratory, renal, nervous, and reproductive systems. Mammalian physiology is stressed. *Prerequisite: Biology 10-11.*

24 ECOLOGY

The study of the principles of ecology with emphasis on the role of chemical, physical, and biological factors affecting the distribution and succession of plant and animal populations and communities. Included will be field studies of local habitats as well as laboratory experimentation. *Prerequisite: Biology 10-11.*

30 COMPARATIVE ANATOMY OF VERTEBRATES

Detailed examination of the origins, structure, and functions of the principal organs of vertebrates. Special attention is given to the progressive modification of organs from lower to higher vertebrates. *Prerequisite: Biology 10-11. Alternate years.*

31 HISTOLOGY

A study of the basic body tissues and the microscopic anatomy of the organs and structures of the body which are formed from them. Focus is on normal human histology. *Prerequisite: Biology 10-11. Alternate years.*

32 MICROTECHNIQUES

A course designed to acquaint the student with the principles and techniques of preparing biological materials for microscopic study. *Prerequisite: Biology 10-11. Alternate years.*

33 ECONOMIC AND SYSTEMATIC BOTANY

Structure and classification of plants, with emphasis on those species, particularly food and drug plants, having significance for human affairs. *Prerequisite: Biology 10-11. Alternate years.*

34 INVERTEBRATE ZOOLOGY

Comparative study of the invertebrate phyla with emphasis on phylogeny, physiology, and morphology. *Prerequisite: Biology 10-11. Alternate years.*

40 PARASITOLOGY

The biology of parasites and parasitism. Studies on the major groups of animal parasites, their taxonomy and life cycles, with an emphasis on those of medical and veterinary importance. *Prerequisite: Biology 10-11. Alternate years.*

41 VERTEBRATE EMBRYOLOGY

A study of the development of vertebrates from the fertilized eggs to the fully formed embryo. *Prerequisite: Biology 10-11. Alternate years.*

42 ANIMAL BEHAVIOR

A study of the causation, function, evolution, and biological significance of animal behaviors in their normal environmental and social contexts. *Prerequisite: Biology 10-11. Alternate years.*

43 ICHTHYOLOGY

The course will encompass the anatomy, taxonomy, and life histories of both freshwater and marine fish. Species of major economic and sport interest will be featured, while the areas of fish management, aquaculture, and fish harvesting will be considered. *Prerequisite: Biology 10-11. Alternate Years.*

44 BIOCHEMISTRY

Emphasis is given to the metabolism of carbohydrates, lipids, amino acids, proteins, and nucleic acids; integration of metabolism; and biochemical control mechanisms including allosteric control, induction, repression, as well as the various types of inhibitive control mechanisms. *Prerequisite: Biology 10-11 and Chemistry 20-21. Alternate years.*

45 EVOLUTION

A history of evolutionary thought, including the genetic, systematic, ecological, and zoo-geographical concepts which are related to the process of evolution. *Prerequisite: Biology 10-11. Alternate years.*

46 PLANT ANATOMY AND PHYSIOLOGY

A study of plant physiology as a function of plant anatomy. Metabolic relationships and environmental factors will be examined from a background of the structure and development of cells, tissues, organs, and whole plants. *Prerequisite: Biology 10-11. Alternate years.*



BUSINESS ADMINISTRATION

Associate Professor: Hollenback (*Chairman*)

Assistant Professors: King, Malcolm

Instructor: Stauffer

Lecturer: Larrabee

Part-Time Instructor: Kane

The major is designed to train the student in analytical thinking and verbal and oral communication, in addition to educating him in the principal disciplines of business. To accomplish this, eight courses, consisting of Business 10-11, 20-21, 30-31, 40, and 41, are required. Accounting 10 may be substituted for Business 10 if a student changes his major. Majors also are urged to enroll in Economics 10/11; Business 23, 35, and 36; Mathematics 4, 5, and 8. The additional elective offerings are intended to add depth in the areas of finance, marketing, and management.

10-11 MANAGERIAL ACCOUNTING

The business firm is a decision-making institution adapting to a constantly changing environment. Future administrators and managers are introduced to their stewardship responsibilities by use of accounting and statistical techniques as tools in planning and controlling the organization.

20-21 FINANCIAL MANAGEMENT

Planning, organization, and control of the financial aspects of the firm. Development of financial principles and application to specific situations. Sources and uses of funds, costs of funds, profit determination, expansion, reorganization and liquidation. *Prerequisite: Business 12 or Accounting 20.*

23 STATISTICS APPLIED TO BUSINESS

Techniques of descriptive statistics useful in business administration and economic analysis. Topics covered include: sampling, index numbers, analysis of time series, analysis of variance, and sample survey techniques. *Prerequisite: Math 5.*

30-31 MARKETING MANAGEMENT

Planning, organization, and control of the distribution activities of the firm, and an analysis and evaluation of the marketing system, its institutions and processes. Application of marketing principles and the development of strategies for specific marketing problems. Product, channel flow, promotion and pricing strategies explored. Readings, cases, and games.

32 SALES PROMOTION

Nature, scope, methods, and effects of promotion. Techniques of analysis and control in the use of advertising, personal selling, and publicity as tools in developing business strategy.

33 INVESTMENTS

Analysis of the leading types of investments available to the individual and the firm. Use of forecasting methods, financial reports, and financial indicators. Methods of buying and selling securities with a discussion of the agencies involved including brokerage houses and stock exchanges.

34 INSURANCE

Analysis of the major insurance methods of overcoming risk, including: life, accident, health, marine, and social insurance. Fidelity and surety bonds. Commercial and government plans.

35 LEGAL PRINCIPLES I

Lectures and analysis of cases on the nature, sources, and fundamentals of the law in general, and particularly as relating to contracts, agency, and negotiable instruments. *Open only to juniors and seniors.*

36 LEGAL PRINCIPLES II

Lectures on the fundamentals and history of the law relating to legal associations, real property, wills, and estates. *Open only to juniors and seniors.*

40 MANAGEMENT CONCEPTS

Structural characteristics and functional relationships of a business organization as well as the problems encountered in coordinating the internal resources of a firm. Emphasis on administrative efficiency and procedures.

41 BUSINESS POLICIES

Planning, organization, and control of business operations; setting of goals; coordination of resources; development of policies. Analysis of strategic decisions encompassing all areas of a business, and the use and analysis of control measures. Emphasis on both the internal relationship of various elements of production, finance, marketing, and personnel and the relationship of the business entity to external stimuli. Readings, cases, and games. *Prerequisite: Business 21, 31, and 40; or consent of instructor. Seniors only.*

42 PERSONNEL MANAGEMENT

An introduction to the managerial problems of recruiting, selecting, training, and retraining the human resources of the firm. Emphasis is placed on the inter-relationship of personnel policies with management objectives and philosophies in such areas as fringe benefits, wage and salary policies, union activities, and health and safety.

43 RETAIL MANAGEMENT I

Planning, organization, and control of the retailing firm. Competitive strategy developed through store location, layout, administrative organization, buying and pricing. Cases, reading, and papers. *Alternate years.*

44 RETAIL MANAGEMENT II

Inventory control, retail sales, promotion, and financial analysis of the enterprise. Survey of current issues and governmental, social, and economic forces of concern to the retailer. Retailing principles applied to specific management situations through cases, games, and reading. *Prerequisite: Business 43 or consent of instructor. Alternate years.*

45 ORGANIZATIONAL THEORY

An analysis of organizational design through the use of analytical models. Using the systems approach, an understanding of human behavior in formal organizations is developed, and practical problems of organizational design are discussed. Topics include: traditional organizational theory, behavior patterns, organizational design, and change. *Alternate years.*

46 PRODUCTION MANAGEMENT

An introduction to the production function in industry. Topics include: product design, plant location and layout, operational analysis, performance standards, line balance theory, inventory control, and the impact of automation through technological change. *Alternate years.*



CHEMISTRY

Professors: Hummer (*Chairman*), Radspinner
Assistant Professors: Franz, Turner

A major consists of eight courses: Chemistry 10-11, 20-21, 30-31, 32, and 33. In addition, Mathematics 10-11, and 20 and Physics 10-11 are required. Mathematics 8 and 21, and French, German, or Russian are highly recommended. Placement in chemistry is determined, in part, by an examination taken by all students upon initial enrollment in the subject.

1-2 GENERAL CHEMISTRY

An introduction to the fundamental principles of chemistry including stoichiometry, atomic and molecular structure and properties, the states of matter, solutions, kinetics, equilibrium, and nomenclature. A study of the chemistry of selected elements and their compounds is made through application of fundamental principles with particular attention focused on representative metals and their inorganic compounds and on the covalent chemistry of carbon including synthetic and naturally occurring compounds. The laboratory treats the qualitative analysis both of inorganic ions and of organic compounds as well as quantitative relationships. *Three hours lecture, one hour discussion and one three-hour laboratory period per week.*

5 BRIEF ORGANIC CHEMISTRY

This course is designed for those non-chemistry majors who elect a single semester course only in organic chemistry. The material will illustrate principles and concepts of organic chemistry supported by that descriptive material which would find application for students of medical technology, biology, nursing, forestry, education, and the humanities. Topics included are bonding and structure, alkanes, alkenes, arenes, and their functional derivatives, amino acids and proteins, carbohydrates, and other naturally-occurring compounds. *Three hours of lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 2 or 11.*

10-11 ADVANCED GENERAL CHEMISTRY

A rigorous introduction to the concepts and models of chemistry. The foundations of physical, analytical, and inorganic chemistry are emphasized. Both qualitative and quantitative analysis procedures are included in laboratory work as well as investigations of physical and chemical properties of compounds and mixtures. *Three hours lecture, one hour discussion, and one three-hour laboratory period per week. Prerequisite: Placement by examination.*

20-21 ORGANIC CHEMISTRY

A systematic study of the compounds of carbon including both aliphatic and aromatic series. The laboratory work introduces the student to simple fundamental methods of organic synthesis, isolation, and analysis. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 2 or 11.*

30-31 PHYSICAL CHEMISTRY

A study of the fundamental principles of theoretical chemistry and their applications. The laboratory work includes techniques in physicochemical measurements. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 11, Mathematics 20, and one year of Physics or consent of instructor.*

32 ANALYTICAL CHEMISTRY

A study of the fundamental methods of gravimetric, volumetric, and elementary instrumental analysis together with practice in laboratory techniques and calculations of these methods. *Two hours lecture and two three-hour laboratory periods each week. Prerequisite: Chemistry 11 or consent of instructor.*

33 ADVANCED INORGANIC CHEMISTRY

A study of modern theories of atomic and molecular structure and their relationship to the chemistry of selected elements and their compounds. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 30, Mathematics 20, and one year of Physics or consent of instructor.*

40 ADVANCED ORGANIC CHEMISTRY

Selected topics, including mechanisms of organic reactions, synthesis, detailed structure and chemistry of natural products, polynuclear hydrocarbons, and aromatic heterocyclics. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 20-21.*

41 QUALITATIVE ORGANIC ANALYSIS

Theory and application of the systematic identification of pure organic compounds and mixtures. *Two hours lecture and two three-hour laboratory periods each week. Prerequisite: Chemistry 20.*

42 ADVANCED PHYSICAL CHEMISTRY

Topics in theoretical chemistry selected from quantum mechanics, statistical mechanics, and current literature. *Four hours lecture each week. Prerequisite: Chemistry 31 and 33.*

43 INSTRUMENTAL METHODS OF ANALYSIS

A study of advanced analytical methods with emphasis on chromatographic, electrochemical, and spectroscopic methods of analysis. *Three hours lecture and one four-hour laboratory period each week. Prerequisite: Chemistry 31 and 32.*



ECONOMICS

Professor: Rabold (*Chairman*)

Associate Professor: Opdahl

Economics courses numbered 10, 11, 20, 30, 31, 40, 48, and one economics elective course of the student's choosing, with the consent of his advisor, constitute the core of the major. Accounting 10 and Business Administration 12 are recommended for majors specializing in business economics. Mathematics 5 and Business Administration 23 are recommended for majors. Students considering graduate school should take Mathematics 10-11.

10/11 PRINCIPLES OF ECONOMICS*

An introduction to the problem of scarcity; to the economic thought, principles, institutions, and systems to which the problem has given rise.

20 MONEY AND BANKING

Monetary and fiscal factors affecting the level of national income; financial organization of society; the banking system, credit institutions, capital markets, and international financial relations. *Prerequisite: Economics 10 and 11.*

22/23 COMPARATIVE ECONOMIC SYSTEMS*

The economic development and comparative analysis of contemporary economic systems, particularly capitalism, socialism, and communism. *Alternate years.*

30/31 INTERMEDIATE ECONOMIC ANALYSIS*

An analysis of contemporary value, distribution, and income theory. First semester is micro-economics; second is macro-economics. *Prerequisite: Economics 10/11.*

32 GOVERNMENT AND THE ECONOMY

An analytical survey of the areas of contact of government at all levels with the American economy, especially in the areas of anti-trust legislation and public utilities. *Prerequisite: Economics 10/11 or consent of instructor. Alternate years.*

35 LABOR PROBLEMS

The development of labor unions, particularly in the United States; consideration of the evolution of labor and wage theories, labor legislation, and contemporary issues of labor-management relations. *Alternate years.*

37 PUBLIC FINANCE

An analysis of the fiscal economics of the public sector, to include the development, concepts, and theories of public expenditures, taxation, and debt at all levels of American government. Includes also the use of fiscal policy as an economic control device. *Prerequisite: Economics 10 and 11 or consent of instructor.*

40 HISTORY OF ECONOMIC THOUGHT

A discussion of the origins, development, and significance of the economic ideas embodied in the works of Smith, Marx, Schumpeter, Keynes, and others. *Prerequisite: Economics 10 and 11 or consent of instructor.*

43 INTERNATIONAL TRADE

A study of the principles, theory, development, and policies concerning international economic relations, with particular reference to the United States. *Prerequisite: Economics 10 and 11. Alternate years.*

* These two courses (one semester each) may be taken in either order, or only one may be taken.

44 AMERICAN ECONOMIC DEVELOPMENT

A study of the economic development of the United States from colonial times to the present. An integration of historical analysis and economic theory. *Prerequisite: Economics 10 and 11 or consent of instructor. Alternate years.*

45 DEVELOPMENT OF UNDERDEVELOPED NATIONS

A study of the theories and problems of capital accumulation, allocation of resources, technological development, growth, planning institutions and international relations encountered by the developing nations. *Alternate years.*

48 SENIOR SEMINAR

The application and integration of economic principles to the analysis and solution of current economic issues via the medium of guided discussion. *Open only to senior economics majors.*

EDUCATION

Associate Professor: Schaeffer (*Chairman*)

Assistant Professors: Conrad, Goodman, Keesbury

Education 20 and Psychology 38 are prerequisites to all other offerings in the Education Department. Education 20 must be taken at least two (2) semesters before the Professional Semester.

Students seeking elementary certification must complete Education 30, 40, 41, and 42 as prerequisites to the Professional Semester, which includes Education 45, 47, and 48.

Students seeking secondary certification must fulfill the requirement of a participation experience in area schools before the Professional Semester. Arrangements for participation are to be made through the Education Department. All requirements of the major must be completed in addition to the professional semester which includes Education 46, 47, and 49.

20 INTRODUCTION TO THE STUDY OF EDUCATION

The social value of public education, the changing conception of the purposes of education, the problems facing the schools, and the fields of professional activity. A study of the economic, social, political, and religious conditions which have influenced the different educational programs and philosophies, with emphasis being placed on the American education system. *Not open to freshmen.*

30 THE PSYCHOLOGY AND TEACHING OF READING
IN THE ELEMENTARY SCHOOL

A background course in the psychological, emotional, and physical bases of reading. A study of the learning process as it applies to reading, child development and the curriculum. The development of a reading program from the beginning (readiness) through principles, problems, techniques, and materials used in the total elementary schools. Observation of and participation with superior teachers in elementary schools of the Greater Williamsport Area. *Prerequisites: Education 20 and Psychology 38.*

32 INSTRUCTIONAL MEDIA AND COMMUNICATIONS

A study of the value, design, construction, and application of the visual and auditory aids to learning. Practical experience in the handling of audio-visual equipment and materials is provided. Application of Audio-Visual Techniques. Application of the visual and auditory aids to learning. Students will plan and carry out actual teaching assignments utilizing various A-V devices. *Summer session only.*

39 PUBLIC SCHOOL CURRICULUM

An examination of the various curricula of the public schools and their relationship to current practices. Special attention will be given to the meaning and nature of the curriculum; the desirable outcomes of the curriculum; conflicting and variant conceptions of curricular content; modern techniques of curricular construction; criteria for the evaluation of curricula; the curriculum as a teaching instrument. Emphasis will be placed upon the curriculum work within the teaching field of each individual. *Summer session only.*

40 LANGUAGE ARTS AND ARITHMETIC

a. Language Arts for Elementary Teachers

This course is designed to consider the principles, problems, materials and techniques of teaching English, spelling, penmanship, choral speaking, and children's literature. Observation of superior teachers in elementary schools of the Greater Williamsport Area.

b. Arithmetic for Elementary Teachers

Arithmetic methods and materials. A study of content, objectives, materials, and methods of instruction; the organization of learning experiences, and evaluation of achievement in the elementary school. Observations of superior teachers in elementary schools of the Greater Williamsport Area. *Prerequisite: Education 30.*

41 TEACHING THE SOCIAL STUDIES IN THE ELEMENTARY SCHOOL

Studies and experiences to develop a basic understanding of the structure, concepts, and processes of anthropology, economics, geography, history, political science, and sociology as these relate to the elementary school social science curriculum. Practical applications, demonstrations of methods, and the development of integrated teaching units using texts, reference books, films, and other teaching materials. *Prerequisite: Education 30.*

42 SCIENCE, HEALTH, SAFETY AND PHYSICAL EDUCATION

a. Science for Elementary Teachers

Science methods and materials interpreting children's science experiences and guiding the development of their scientific concepts. A briefing of the science content of the curriculum, its material and use.

b. Health, Safety and Physical Education for Elementary Teachers

An introduction to the methods of teaching children's games and dances, first aid, preservation of health, prevention of accidents, and the development of good health habits. *Prerequisite: Education 30*

45 METHODS OF TEACHING IN THE ELEMENTARY SCHOOL (PART OF THE PROFESSIONAL SEMESTER)

A study of methods and materials of teaching all elementary school subjects, including art and music, with a view to preparing students for their particular student teaching assignment. Demonstration lessons by students, micro-teaching, simulation activities, and group interrelation studies may be included. *Prerequisites: Education 40, 41, and 42.*

46 METHODS OF TEACHING IN THE SECONDARY SCHOOL (PART OF THE PROFESSIONAL SEMESTER)

A study of materials, methods, and techniques of teaching with emphasis on the student's major. Stress is placed on the selection and utilization of visual and auditory aids to learning. Students will teach demonstration lessons in the presence of the instructor and the members of the class and will observe superior teachers in the secondary schools of the Greater Williamsport Area. *Prerequisites: Education 20, Psychology 38, and the Participation Experience.*

47 PROBLEMS IN CONTEMPORARY AMERICAN EDUCATION (PART OF PROFESSIONAL SEMESTER)

Seminar in the issues, problems and challenges encountered by teachers in the American public schools, especially those related to the student teaching experience.

48 PRACTICE TEACHING IN THE ELEMENTARY SCHOOL
(PART OF THE PROFESSIONAL SEMESTER)

Two Units. Exceeds state mandated minimum requirement. Professional laboratory experience under the supervision of a selected cooperating teacher in a public elementary school of the Greater Williamsport Area. Organized learning experiences. Actual classroom experience.

49 PRACTICE TEACHING IN THE SECONDARY SCHOOL
(PART OF THE PROFESSIONAL SEMESTER)

Two Units. Exceeds state mandated minimum requirement. Professional laboratory experience under the supervision of a selected cooperating teacher in a public secondary school of the Greater Williamsport Area. Organized learning experiences. Emphasis on actual classroom experience, responsibility in the guidance program and out-of-class activities.

ENGLISH

Professor: Graham

Associate Professor: Gustafson (*Chairman*)

Assistant Professors: Bayer, Ford, Jensen, Madden, Rife, Sawyer

A major consists of ten courses not including English 1. These ten courses must include:

Literary Periods – Three courses, one course to be chosen from each of three of these groups: English 20 or 21; English 22 or 23; English 24, 25, or 26; English 27, 28, or 29.

Genres and Particular Authors – Two courses, one course to be chosen from each of these groups: English 30, 31, 32, 33, or 34; English 35, 36, or 37.

Special Topics – Two courses, to be chosen from English 40, 41, 42, 43, 48.

Majors seeking secondary certification in English are required to take English 46 and English 47.

1 RHETORIC

Instruction and carefully supervised practice in the basic techniques of organizing and expressing facts and ideas. The topic or topics dealt with are selected by the instructor.

12 INTRODUCTION TO LITERATURE

An introduction to the study of literature, this course is primarily designed for freshmen seeking an elective to fulfill half of their English Distribution requirement. Through lectures and discussions, the course will introduce the student to a variety of literary genres, including poetry, fiction, and drama. The lectures will be delivered by members of the English Department, and on occasion by members of other departments, and the discussions will be led by select upper-division English majors.

20 THE MEDIEVAL MIND

A study of the epic, romance, lyric and drama from Beowulf to Malory's *Le Morte Darthur* and *Everyman*, with some attention to continental works influencing the development of English literature.

21 CONTENTS OF RENAISSANCE THOUGHT

A study of English literary traditions from 1500 through the Elizabethan Age within the context of humanism and the Reformation. Emphasis on the works of major writers: More, Spenser, Marlowe, Shakespeare, Jonson, and others. Some consideration of continental influences on works of the period.

22 17TH CENTURY BRITISH LITERATURE

By means of wide reading among the works of some major authors of the period, an understanding of the literature and the period will be pursued.

23 18TH CENTURY BRITISH LITERATURE

A close analysis of selected works of the major writers (from Pope and Swift to Johnson). Emphasis will be placed on the development of traditions of attitude (literary, social, and philosophical) and on the chief genres of the period.

24 ROMANTIC LITERATURE (1780-1832)

A study of the literary, philosophical, and historical significance of the Romantic Movement. Emphasis will be given to the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

25 VICTORIAN LITERATURE (1832-1900)

A study of the poetry and the prose of the major writers of the period.

26 PRE-CIVIL WAR AMERICAN LITERATURE

A survey of American literature and thought before 1830, followed by more intensive study of the literature and thought of the period 1830-1860. Cooper, Emerson, Thoreau, Poe, Hawthorne, Melville, and others.

27 20TH CENTURY BRITISH LITERATURE

Chief attention will be paid to the major works of poetry, fiction, and drama from Conrad to Beckett, with emphasis on the development of peculiarly 20th Century forms and traditions.

28 POST-CIVIL WAR AMERICAN LITERATURE

Major writers, movements, and influences of post-Civil War to World War II America, with strong emphasis on Naturalism and Realism. Twain, James, Crane, Hemingway, Fitzgerald, Faulkner, O'Neill, Robinson, Frost, Eliot, Stevens, *et al.*

29 CONTEMPORARY LITERATURE

Representative works of major figures of the post-World War II period, British, American, and some Continental. Auden, Pinter, Murdoch, Amis, Hughes, Thomas, Greene; Beckett, Grass, Camus, Sartre; Albee, Bellow, Heller, Vonnegut, Lowell, *et al.* This course may be structured around a single theme or idea, such as "The Search for a Father," "The Contemporary Wasteland," or "The Function of Violence in the Modern World."

30 THE NATURE OF DRAMA

An examination of the forms and techniques of the drama. The course will vary in content and may focus on one or several playwrights or periods.

31 THE NATURE OF POETRY

Poetry will be studied with special attention given to considering the "kinds" (e.g. lyric, epic, etc.) of poetry, and the various ways of reading poems.

32 THE NATURE OF SHORT FICTION

Study and analysis of short stories and novellas with form and language being a primary consideration. The course will vary in content and may focus on one or several writers or periods.

33 THE NOVEL

Representative novels, from the eighteenth century to the present, with emphasis on the development of the genre.

34 LITERARY CRITICISM

A study of major critical approaches to the reading of literature. Practice in writing formal critical analyses of selected works.

35 CHAUCER

A study of the major poetry of Chaucer, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*, with some reference to the traditions out of which these works arose.

36 SHAKESPEARE

A study of selected major plays, with emphasis given to their relation to Shakespeare's age and our own.

37 SELECTED AUTHORS

An intensive study of one or more authors, selected on the basis of student and faculty interest. *This course may be repeated for credit.*

38 WORLD LITERATURE IN TRANSLATION

Continental authors will be chosen on the basis of their influence on English writers and for their contribution to the student's understanding of literature. (Possible examples: Homer, Vergil, Dante, Cervantes, Flaubert, Dostoevsky, Chekov, Ibsen, Ionesco, Camus, Kafka, and Hesse).

40 LITERATURE AND LANGUAGE: FORMAL APPROACHES

The general subject of such a course might be the history and theory of literature, with, for example, the specific topic being the relationships between the development of the English language and its poetics by means of a consideration of traditional metric theories in light of current linguistic research; or, the general subject of such a course might be semantics and theories of meaning, with attention given to various schools of thought such as those of the semanticists, the General Semanticists, the Semologists, and so on; or, the course might take up special topics in linguistics. *This course may be repeated for credit.*

41 TRADITIONAL THEMES IN LITERATURE

Persistent themes, legends, and ideas in literature—King Arthur, Faust, Utopia; alienation, *rite de passage*, the quest; existentialism, determinism, and the like. *This course may be repeated for credit.*

42 LITERATURE IN ITS EXTERNAL RELATIONS

Emphasis will be on literature in its relation to specific cultural manifestations. Individual courses may be organized around such materials as Literature and Psychology, Literature and Industrialism, Literature and Philosophy, and so on. *This course may be repeated for credit.*

43 CONTRASTIVE STUDIES

Emphasis will be on comparisons and contrasts among the literatures of more than one period, nation, or group, or among literature and other media. Individual courses might consider such contrastive materials as American and Russian Frontier Literature; Literature of the Folk and of the Establishment, and so on. *This course may be repeated for credit.*

44 THE WRITING OF NON-FICTION

A workshop course dealing with the professional treatment of factual material for magazines or newspapers. Emphasis on the informal essay, feature article, interview, or news story with consideration of the interests of individual students. Roundtable discussions will be supplemented by personal conferences.

45 IMAGINATIVE WRITING

Emphasis will be on practical experience in writing imaginative literature (e.g. poetry, short story, drama, etc.). The course will focus on a single form of imaginative writing. *This course may be repeated for credit.*

46 THE HISTORY OF THE ENGLISH LANGUAGE

A study of the development of the English Language from Old English to Modern English.

47 THE STRUCTURE OF THE ENGLISH LANGUAGE

A study of modern language theories as applied to American English. Emphasis will be placed on Structural, Generative-Transformational, and Contextual approaches to the understanding of language.

48 SENIOR SEMINAR

A special course for senior majors, concentrating on the application of different kinds of criticism to a heterogeneous group of literary works chosen by the students in consultation with members of the department. The literary works must be selected before the end of the students' junior year, and must be read before the course begins. *This course may be repeated for credit.*

FOREIGN LANGUAGES AND LITERATURES

Associate Professors: Flam, Maples
Assistant Professors: Winston (*Chairman*), Dufour,
MacKenzie, Rassoul
Part-time Instructor: LeRoux

Study of foreign languages and literatures offers opportunity to explore, broadly, the varieties of human experience and thought. It contributes both to personal and to international understanding by providing competence in a foreign language and a critical acquaintance with the literature and culture of foreign peoples. A major can serve as entree to careers in business, industry, government, publishing, education, journalism, social agencies, translating, and writing. It prepares for graduate work in literature or linguistics and the international fields of politics, commerce, law, health, and area studies.

FRENCH, GERMAN, RUSSIAN, and SPANISH are offered as major fields of study. The major consists of eight courses numbered 10 or above. Majors seeking teacher certification and students planning to enter graduate school are advised to begin study of a second foreign language. The department encourages the development in breadth of programs including allied courses from related fields or a second major, and also individual or established interdisciplinary majors combining interest in several literatures or area or cross-cultural studies, for example: Soviet Area Studies, Western European Studies, 20th Century Studies, the Major in Literature. Majors, teaching certification candidates, and in fact all college students are encouraged to spend at least a semester of study abroad by applying to one of the many programs available. The department maintains a file of such programs. The department also participates in a student exchange program with the Pädagogische Hochschule of Gottingen.



FRENCH

Passing courses numbered 30, 31, 33 and at least two courses numbered 40 or above is required of all majors who wish to be certified for teaching. A language proficiency test will be required of these students during their senior year.

1-2 ELEMENTARY

Basic conversational patterns and syntactical foundations of the language. Laboratory drills. Reading of graded texts.

10-11 INTERMEDIATE

Systematic review and extension of essential grammar; laboratory drills in syntax and idioms. Reading of expository prose. *Prerequisite: French 2 or equivalent.*

20 CONVERSATION

Designed to develop conversational fluency and comprehension through small group discussions focusing on topics from readings in modern French culture, such as French social attitudes and French-American cultural differences. Some attention to grammar and writing. *Prerequisite: French 11 or equivalent.*

30 FOREIGN LANGUAGE: SYSTEMS AND PROCESS

Study of basis linguistic concepts as a tool for language learning and teaching. Discussion and application of modern language teaching techniques. Designed for future teachers of foreign languages. *Prerequisite: Consent of instructor.*

31 FRENCH GRAMMATICAL STRUCTURE

Study of complex grammatical rules and their practical application in speaking and writing. *Recommended for all majors.*

33 INTRODUCTION TO LITERARY STUDIES

Studies in French literature, with emphasis on critical reading and interpretation. Discussions, lectures, oral *exposés*, papers. *Prerequisite: French 20 or equivalent. Open to students majoring in other departments after consultation with the instructor.*

41 FRENCH LITERATURE OF THE MIDDLE AGES AND THE RENAISSANCE

A study of selected works from *La Chanson de Roland* to Montaigne. *Prerequisite: French 33 or consent of instructor. Alternate years.*

43 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY

A study of major texts of the period: *préciosité*, the origins and theories of French classicism, Corneille, Pascal, Descartes. Classical tragedy and comedy: Racine, Molière. La Fontaine, Mme. de La Fayette, La Bruyère. *Prerequisite: French 33 or consent of instructor.*

45 FRENCH LITERATURE OF THE EIGHTEENTH CENTURY

The literary expression of ideas: Montesquieu, Voltaire, Rousseau, and the Encyclopedists. *Prerequisite: French 33 or consent of instructor. Alternate years.*

47 FRENCH LITERATURE OF THE NINETEENTH CENTURY

The dimensions of the Romantic sensibility: Musset, Hugo, Vigny, Balzac, Stendhal. Realism and Naturalism in the novels of Flaubert and Zola. Reaction in the poetry of Baudelaire, Rimbaud, Verlaine, and Mallarmé. *Prerequisite: French 33 or consent of instructor.*

48 MODERN FRENCH THEATRE

Major trends in French drama from the turn of the century to Existentialism and the Theatre of the Absurd. Giraudoux, Anouilh, Sartre, Camus, Beckett, Ionesco, Genet, Adamov, and others. *Prerequisite: French 33 or consent of instructor. Alternate Years.*

49 FRENCH LITERATURE OF THE TWENTIETH CENTURY

Representative poets and novelists of modern France. Readings selected from the works of authors such as Proust, Gide, Aragon, Giono, Mauriac, Celine, Malraux, Saint-Exupéry, Camus, the "new novelists" (Robbe-Grillet, Butor, Sarraute, Le Clezio), and the poetry of Apollinaire, Valéry, the Surrealists (Breton, Reverdy, Eluard, Char), Saint-John Perse, Supervielle, Prevert, and others. Some attention to works of French-speaking African writers. *Prerequisite: French 33 or consent of instructor. Alternate years.*

GERMAN

Passing courses numbered 30, 31, 33 and 34 is required of all majors who wish to be certified for teaching. A language proficiency test will be required of these students during their senior year.

1-2 ELEMENTARY

Basic conversational patterns and syntactical foundations of the language. Laboratory drills. Reading of graded texts.

10-11 INTERMEDIATE

Systematic review and extension of essential grammar; laboratory drills in syntax and idioms. Reading of expository prose. *Prerequisite: German 2 or equivalent.*

20 CONVERSATION

Designed to develop aural comprehension and conversational fluency. Readings and discussions on topics of contemporary society in Germany, Switzerland, and Austria. Some attention to grammar and writing. *Prerequisite: German 11 or equivalent.*

30 FOREIGN LANGUAGE: SYSTEMS AND PROCESS

Study of basic linguistic concepts as a tool for language learning and teaching. Discussion and application of modern language teaching techniques. Designed for future teachers of foreign languages. *Prerequisite: Consent of instructor.*

31 GERMAN GRAMMATICAL STRUCTURE

Study of intonation, complex grammatical rules and their practical application, stylistics, and a brief survey of the development of the language. *Recommended for all majors.*

33 SURVEY OF GERMAN LITERATURE AND CIVILIZATION

Selected literature of the Old High and Middle High German periods, of the late Middle Ages and Baroque. *Prerequisite: German 20 or consent of instructor.*

34 SURVEY OF GERMAN LITERATURE AND CIVILIZATION

Representative masterpieces of New High German literature beginning with the era of the Enlightenment. *Prerequisite: German 20 or consent of instructor.*

40 GOETHE

A study of the life and works of Goethe. Goethe's significance in the Classical period and later. Readings in the major works. *Prerequisite: German 33 or 34 or consent of instructor.*

41 CLASSICAL GERMAN DRAMA

The development of *das klassische Drama* with emphasis on works of Lessing, Goethe and Schiller. *Prerequisite: German 20.*

42 MODERN GERMAN DRAMA

The emergence of modern Drama commencing with Buchner and leading to Brecht. *Prerequisite: German 20.*

43 THE NOVELLE

The German Novelle as a genre relating to various literary periods. *Prerequisite: German 20.*

45 GERMAN POETRY

A study of selected poets or the poetry of various literary periods. *Prerequisite: German 33 or 34 or consent of instructor.*

47 MODERN GERMAN LITERATURE

A study of the major movements and writers from Naturalism, Expressionism, and the postwar period. Hauptmann, Rilke, Mann, Hesse, Kaiser, and others. *Prerequisite: German 33 or 34 or consent of instructor.*

GREEK

Greek is not offered as a major.

- 1-2 NEW TESTAMENT GRAMMAR AND READINGS
Fundamentals of New Testament Greek grammar and readings of selected passages of the Greek text. *Alternate years.*
- 11 THE GOSPEL ACCORDING TO ST. MARK
A critical reading of the Greek text with special attention to exegetical questions. *Alternate years.*
- 12 THE EPISTLE TO THE ROMANS
A critical reading of the Greek text with special attention being given to the theology of St. Paul. *Alternate years.*

HEBREW

Hebrew is not offered as a major.

- 1-2 OLD TESTAMENT GRAMMAR AND READINGS
Fundamentals of Old Testament Hebrew grammar and readings of selected passages of the Hebrew text. *Alternate years.*
- 11-12 INTERMEDIATE OLD TESTAMENT HEBREW
A critical reading of the Old Testament Hebrew text with special attention to exegetical questions. The text read varies from year to year. *Alternate years.*

RUSSIAN

Passing courses numbered 20-21, 30, 33, and 34 is required of all majors who wish to be certified for teaching. A language proficiency test will be required of these students during their senior year.

- 1-2 ELEMENTARY
Basic conversational patterns and syntactical foundations of the language. Laboratory drills. Reading of graded texts.
- 10-11 INTERMEDIATE
Systematic review and extension of essential grammar; laboratory drills in syntax and idioms. Reading of expository prose. *Prerequisite: Russian 2 or equivalent.*
- 20-21 ADVANCED
Designed to develop a high degree of aural comprehension and conversational fluency. Directed composition and readings. *Prerequisite: Russian 11 or equivalent.*
- 30 FOREIGN LANGUAGE: SYSTEMS AND PROCESS
Study of basic linguistic concepts as a tool for language learning and teaching. Discussion and application of modern language teaching techniques. Designed for future teachers of foreign languages. *Prerequisite: Consent of instructor.*
- 33 SURVEY OF RUSSIAN LITERATURE AND CIVILIZATION
Designed to acquaint the student with important periods of Russian literature, representative authors, and major socio-economic developments. The course deals with the literature through Dostoevski. *Required of all majors and open to students majoring in other departments after consultation with the instructor.*
- 34 SURVEY OF RUSSIAN LITERATURE AND CIVILIZATION
Designed to acquaint students with important periods of Russian literature, representative authors, and major socio-economic developments. The course starts with Tolstoy. *Required of all majors and open to students majoring in other departments after consultation with the instructor.*

43 RUSSIAN SHORT STORY

Study of historical development of the short story form in Russia. Lectures, reports, and class analysis.

47 SOVIET LITERATURE

Survey of major literary figures, movements, styles. Revolution and its impact on literature and writers. Revival of the psychological novel, short story, contemporary poetry.

48 READINGS IN MODERN RUSSIAN

Representative readings and translation of Soviet periodicals and selected texts in social sciences. Study of current political and social terminology, Soviet idioms.

SPANISH

Passing courses numbered 30, 31, and 33, 34 (or 35, 36) is required of all majors who wish to be certified for teaching. A language proficiency test will be required of these students during their senior year.

All majors are required to pass at least one course numbered 40 or above.

1-2 ELEMENTARY

Basic conversational patterns and syntactical foundations of the language. Laboratory drills, reading of graded texts.

10-11 INTERMEDIATE

Systematic review and extension of essential grammar; laboratory drills in syntax and idioms. Reading of expository prose. *Prerequisite: Spanish 2 or equivalent.*

20 ADVANCED

Designed to develop a high degree of aural comprehension and conversational fluency. Directed composition and readings. *Prerequisite: Spanish 11 or equivalent.*

30 FOREIGN LANGUAGE: SYSTEMS AND PROCESS

Study of basic linguistic concepts as a tool for language learning and teaching. Discussion and application of modern language teaching techniques. Designed for future teachers of foreign languages. *Prerequisite: Consent of instructor.*

31 SPANISH GRAMMATICAL STRUCTURE

Study of intonation, complex grammatical rules and their practical application, and a brief survey of the development of the language. *Recommended for all majors.*

33 SURVEY OF SPANISH LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish literature, representative authors, and major socio-economic developments. The course deals with the literature from the beginning through the 17th century. *Open to students majoring in other departments after consultation with the instructor.*

34 SURVEY OF SPANISH LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish literature, representative authors, and major socio-economic developments. The course deals with the literature from the 18th century to the present. *Open to students majoring in other departments after consultation with the instructor.*

35 SURVEY OF SPANISH AMERICAN LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish-American literature, representative authors, and major socio-economic developments. The course deals with the literature from the discovery through the advent of Modernism. *Open to students majoring in other departments after consultation with the instructor.*

36 SURVEY OF SPANISH AMERICAN LITERATURE AND CIVILIZATION

Designed to acquaint the student with important periods of Spanish-American literature, representative authors, and major socio-economic developments. The course deals with the literature from Modernism to the present. *Open to students majoring in other departments after consultation with the instructor.*

HISTORY/87

- 43 SPANISH LITERATURE OF THE GOLDEN AGE
A study of representative works and principal literary figures. The course deals with the major poets (Garcilaso, Fray Luis, San Juan, Góngora, Lope, Quevedo) and dramatists (Lope, Tirso, Alarcón, and Calderón) of the 16th and 17th centuries. *Prerequisite: Consent of instructor.*
- 44 SPANISH LITERATURE OF THE GOLDEN AGE
A study of representative works and principal literary figures. The course deals with the main currents in prose fiction, culminating in Cervantes and *Don Quijote*. *Prerequisite: Consent of instructor.*
- 46 ROMANTICISM
A study of the Romantic movement in Spain with emphasis on the major poets, dramatists and *costumbristas*. *Prerequisite: Consent of instructor.*
- 47 19TH CENTURY NOVEL
Regionalism, realism, and naturalism in prose fiction, with emphasis on the works of Galdos. *Prerequisite: Consent of instructor.*
- 48 THE GENERATION OF '98
Principal literary figures of the early 20th century: Unamuno, Azorín, Valle Inclán, Baroja, Benavente, Machado, Jiménez, etc. *Prerequisite: Consent of instructor.*
- 49 SPANISH AMERICAN NOVEL
Twentieth Century novelists from Azuela to García Márquez. *Prerequisite: Consent of instructor.*

HISTORY

Professors: Priest (*Chairman*), Ewing
Assistant Professor: Larson, Piper

A major consists of ten courses including History 10 and 11. Religion 26 and/or 27 may be counted toward a major. History majors seeking secondary certification are required to take History 12 and 13. In addition to the courses listed below, special courses and individual studies are available—recent topics include the Afro-American and the urban experience, the Civil War and Reconstruction, and American Colonial history.

- 10 THE ZENITH OF EUROPEAN POWER, 1815-1914
A study of the political, economic, social, and cultural foundations of European domination of the world in the nineteenth century.
- 11 THE END OF EUROPEAN DOMINANCE
The story of how in the twentieth century Europe loses her supremacy as a result of two world wars, new states are formed from old empires, powerful states again both threaten war and work for peace, and the people's revolution begins.
- 12 UNITED STATES HISTORY 1763-1877
A study of the men, measures, and movements which have been significant in the development of the United States between 1763 and 1877. Attention is paid to the problems of minority groups and to aspects of Pennsylvania history as well as to majority and national influences.
- 13 UNITED STATES HISTORY SINCE 1877
A study of the men, measures, and movements which have been significant in the development of the United States since 1877. Attention is paid to the problems of minority groups and to aspects of Pennsylvania history as well as to majority and national influences.

20 ANCIENT GREECE

A study of the origins of civilization in the ancient Near East, its diffusion to other areas, and the foundations of the western tradition in Greece. The political, social, and cultural experiences and the intellectual, literary, and aesthetic achievements of the Greeks will be examined. *Alternate years.*

21 THE ROMAN REPUBLIC AND EMPIRE

The emergence and expansion of the Roman state, its conquest of the Mediterranean, its experience as a republic, its transformation into the Empire, the Empire as a major factor in history. The role of Rome in the continuation and modification of the western tradition will be assessed and the character of Roman institutional and legal development will be examined. *Alternate years.*

22 BARBARIAN EUROPE, THE BYZANTINE EMPIRE, AND THE MOSLEM WORLD TO THE TWELFTH CENTURY

The disintegration of the Roman Empire in the West and the rise of the Germanic states on its soil, the continuation of the Roman Empire in the East (the Byzantine Empire), the emergence of Islam and the subsequent rise of the Arab Empire and its later fragmentation. The fusion of Roman, Germanic, and Christian elements and the emergence therefrom of medieval western civilization will be examined along with the transformation in the character and civilization of the continuing Eastern Roman Empire and the origins and development of the Moslem world and civilization. The impact of these three areas and civilizations on each other will be assessed. *Alternate years.*

23 THE HIGH AND LATER MIDDLE AGES

The flowering of a distinctive medieval civilization in the twelfth and thirteenth centuries and the changes in the character of this civilization in the fourteenth and fifteenth centuries. The political, social, economic, intellectual, ecclesiastical, literary, and aesthetic facets of this civilization will be studied in their relationship to each other. Included in the fourteenth and fifteenth centuries are the early and middle phases of the Renaissance. *Alternate years.*

28 AFRO-AMERICAN HISTORY

A study of the experiences and participation of Afro-Americans in the United States. The course includes historical experiences such as slavery, abolition, reconstruction, and urbanization. It also raises the issue of the development and growth of white racism, and the effect of this racism on contemporary Afro-American social, intellectual, and political life.

30 EARLY MODERN EUROPE 1500-1648

Political, economic, social, religious, and cultural developments of the sixteenth and early seventeenth centuries.

31 THE OLD REGIME AND ITS COLLAPSE 1648-1815

A study of European life dominated by royal absolutism and the landed aristocracy, challenged by the beginnings of modern science and the Enlightenment, and brought down by the Revolution beginning in France.

32 EUROPEAN FASCISM

An investigation of fascism as a European phenomenon emphasizing the common characteristics of the various national movements. Topics to be covered include the origins, theories, and practices of various fascist systems. *Prerequisite: History 10 and 11, or consent of instructor.*

33 EUROPEAN IMPERIALISM

A study of the European expansion overseas since the sixteenth century emphasizing the motives behind expansion, the nature of the Empires, and the impact of the experience on both the European and non-European people. *Prerequisite: History 10 and 11, or consent of instructor.*

34 AMERICAN FOREIGN RELATIONS

A study of the course of relations of the United States with foreign nations from independence through World War I.

HISTORY/89

35 AMERICAN FOREIGN RELATIONS

A detailed study of the formulation and application of American foreign policies since 1918.

36 MODERN REVOLUTIONS

A comparative study of the English, American, French, and Russian Revolutions analyzing the conditions which bred them, the ideology which motivated them, the course of conflict from reform to violence, and the ultimate reaction. *Prerequisite: Consent of instructor.*

40 HISTORY OF RENAISSANCE THOUGHT

A study of the classical, humanist, and scholastic elements involved in the development of the Renaissance outlook, views, and values, both in Italy and in Northern Europe. The various combination of circumstances which constitute the historical context of these intellectual developments will be noted. *Prerequisite: History 23 and 30 or consent of instructor. Alternate years.*

41 HISTORY OF REFORMATION THOUGHT

A study of the ideas and systems of ideas propounded prior to the Reformation but which are historically related to its inception and of the ideas and systems of ideas involved in the formation of the major Reformation Protestant traditions and in the Catholic Reformation. Included are the ideas of the humanists of the Reformation Era. *Prerequisite: History 30 or consent of instructor. Alternate years.*

42 U.S. SOCIAL AND INTELLECTUAL HISTORY TO 1865

A study of the social and intellectual experience of the United States from its colonial antecedence through reconstruction. Among the topics considered are Puritanism, Transcendentalism, community life and organization, education and social reform movements. *Prerequisite: 2 courses from History 12, 13, 28, or consent of instructor.*

43 U.S. SOCIAL AND INTELLECTUAL HISTORY SINCE 1865

A study of the social and intellectual experience of the United States from reconstruction to the present day. Among the topics considered are Social Darwinism, Pragmatism, community life and organization, education and social reform movements. *Prerequisite: 2 courses from History 12, 13, 28, or consent of instructor.*

44 VICTORIAN ENGLAND

A study of the nineteenth century in England pursuing such topics as the condition of the working class, the politics of reform, morals and manners, religion and science, origins of the Labour Party, and the motivation for imperialism. *Prerequisite: History 10 and 11, or consent of instructor. Alternate years.*

45 TOPICS IN TWENTIETH CENTURY BRITISH HISTORY

An investigation of such subjects as the expansion of social services, popular culture, problems of affluence, the failure of diplomacy, the experience of two world wars, the changing Commonwealth, and the British role in the world today. *Prerequisite: History 10 and 11, or consent of instructor. Alternate years.*

46 TOPICS IN RUSSIAN HISTORY

Studies of various aspects of prerevolutionary Russia evolving around the theme of the failure of the Tsarist regime to successfully overcome the challenge of the modern world. *Prerequisite: History 10 and 11, or consent of instructor. Alternate years.*

47 TOPICS IN SOVIET HISTORY

Studies of various aspects of political, economic, social, and cultural history of the USSR since 1917. *Prerequisite: History 10 and 11, or consent of instructor. Alternate years.*

48 TOPICS IN TWENTIETH CENTURY UNITED STATES RELIGION

The study of historical and cultural developments in American society which relates to religion or are commonly called religious. This involves consideration of the institutional and intellectual development of several faith groups as well as discussion of certain problems. The problems include the persistence of religious bigotry and the changing modes of Church-State relationships. *Prerequisite: Consent of instructor. Alternate years.*

MATHEMATICS

Professor: Skeath (*Chairman*)
Assistant Professors: Feldmann, Getchell, Henninger
Instructors: Lambert, Sausman

A major consists of ten courses numbered 10 or above including Mathematics 10-11, 20, 34, and 35. Students seeking secondary certification in mathematics are advised to elect Mathematics 24 and 30, and Philosophy 24 and 36. In addition to the courses listed below, special courses are occasionally available – recent topics include: Optimization Theory, Theory of Numbers, Lattice Theory, History of Mathematics, and Concepts of Mathematics for Teachers.

1 ALGEBRA AND TRIGONOMETRY

An elementary study of trigonometric, polynomial, logarithmic and exponential functions.

2 MODERN MATHEMATICS

Topics included are sets, relations, functions, methods of mathematical reasoning, systems of numeration, the structure of the real number system and its major subsystems.

3 INTRODUCTION TO CALCULUS

A non-theoretical introduction to derivatives and integrals with applications. *Prerequisite: Mathematics 1 or equivalent. Graduation credit will not be given in addition to Mathematics 10.*

4 INTRODUCTION TO PROBABILITY

Probability in finite sample spaces, sophisticated counting, vectors, matrices, and Markov processes, with applications. *Prerequisite: Mathematics 2 or equivalent.*

5 INTRODUCTION TO STATISTICS

Describing distributions of measurements, probability and random variables, binomial and normal probability distributions, statistical inference from small samples, linear regression and correlation, analysis of enumerative data. Includes laboratory experience with the desk calculator.

8 COMPUTER SCIENCE

Study of mathematics relevant to computing. A survey of machine and symbolic programming. Introduction to FORTRAN IV programming. Includes laboratory experience on an IBM 1130.

10-11 ANALYTIC GEOMETRY AND CALCULUS I-II

Study of graphs of functions, properties of conic sections, polar coordinates, ideas of limits and continuity, differentiation and integration of algebraic and transcendental functions, vectors. *Prerequisite: Mathematics 1 or equivalent.*

20 ANALYTIC GEOMETRY AND CALCULUS III

Study of convergent and divergent series, solid analytic geometry, partial differentiation, multiple integration. *Prerequisite: Mathematics 11.*

21 DIFFERENTIAL EQUATIONS

Methods of solving differential equations, including Laplace transforms, differential operators and variation of parameters. *Prerequisite: Mathematics 20.*

24 FOUNDATIONS OF MATHEMATICS

Topics include the nature of mathematical systems, essentials of logical reasoning, axiomatic foundation of set theory, and transfinite induction. *Prerequisite: Mathematics 10 or consent of instructor.*

MATHEMATICS/91

30 TOPICS IN GEOMETRY

An axiomatic treatment of Euclidean geometry, and an introduction to related geometries. *Prerequisite: Mathematics 10. Alternate years.*

31 INTRODUCTION TO NUMERICAL ANALYSIS

Study and analysis of tabulated data leading to interpolation, numerical solution of equations and systems of equations, numerical integration. *Corequisite: Mathematics 21. Prerequisite: Mathematics 8. Alternate years.*

32-33 MATHEMATIC STATISTICS I-II

A study of probability, discrete and continuous random variables, expected values and moments; sampling, point estimation, sampling distributions, interval estimation, tests of hypotheses, regression and linear hypotheses, experimental design models. *Prerequisite: Mathematics 20. Alternate years.*

34 ABSTRACT ALGEBRA

An introduction to groups, rings, and fields. *Prerequisite: Mathematics 20 or 24.*

35 LINEAR ALGEBRA

An introduction to vector spaces and linear transformations. *Prerequisite: Mathematics 20 or 24.*

40 APPLIED ANALYSIS

Topics selected from vector analysis, tensors, matrices, partial differential equations and the calculus of variations. *Prerequisite: Mathematics 21. Alternate years.*

41 INTRODUCTION TO TOPOLOGY

An introduction to metric spaces, abstract topological spaces, mappings, separation, completeness, compactness, and connectedness. *Prerequisite: Mathematics 20. Alternate years.*

42 REAL ANALYSIS

Construction of the real number system. A rigorous study of infinite series and continuity, differentiation and integration of real valued functions. *Prerequisite: Mathematics 20. Alternate years.*

43 COMPLEX ANALYSIS

Introduction to the complex number system, functions of a complex variable, transformations, analytic functions, and complex integration. *Prerequisite: Mathematics 20. Alternate years.*



MUSIC

Professors: Morgan (*Chairman*), McIver
Associate Professors: Russell, Sheaffer

A major consists of eight courses numbered 10 and above. Each major must complete one-half unit of applied music each semester.

1-2 INTRODUCTION TO MUSIC

A basic course designed to acquaint the student with the nature of music. Extensive guided listening is used to help the student to become perceptive.

10-11 MUSIC THEORY I AND II

An integrated course in musicianship including sight singing, ear training, written and keyboard harmony.

20-21 MUSIC THEORY III AND IV

A continuation of the integrated course moving toward newer uses of musical materials. *Prerequisite: Music 11.*

28 COUNTERPOINT

A study of the five species in two, three, and four-part writing. *Alternate years.*

29 ORCHESTRATION

A study of modern orchestral instruments, and examination of their use by the great masters with practical problems of instrumentation. *Alternate years.*

30 COMPOSITION

Creative writing in smaller vocal and instrumental forms. The college musical organizations serve to make performance possible. *Alternate years.*

31 CONDUCTING

A study of the fundamentals of conducting with frequent opportunity for practical experience. *Alternate years.*

35 MUSIC HISTORY AND LITERATURE TO J.S. BACH

A survey of the history of music from antiquity to the beginning of the 18th century with emphasis on nonmensural chant, the beginnings of harmony and counterpoint and their development. *Prerequisite: Music 2. Alternate years.*

36 MUSIC HISTORY AND LITERATURE OF THE 18TH CENTURY

Emphasizing the achievements of the late Baroque and largely concerned with the lives and works of Bach, Handel, Haydn, and Mozart. *Prerequisite: Music 2. Alternate years.*

45 MUSIC HISTORY AND LITERATURE OF THE 19TH CENTURY

A survey of the music of the 19th century, including study of Beethoven, Chopin, Schubert, Brahms, Wagner, and Debussy and their principal media and forms. *Prerequisite: Music 2. Alternate years.*

46 MUSIC HISTORY AND LITERATURE OF THE 20TH CENTURY

The survey of music history culminates with the study of the works of such moderns as Stravinsky, Bartok, Prokofief, Shostakovich, Barber, Copland, Menotti, and Stockhausen. Attention is given to atonality and expressionism. *Prerequisite: Music 2. Alternate years.*

APPLIED MUSIC

The study of performance in Piano, Voice, Organ, Strings, Brass, Woodwinds, and Percussion is designed to develop sound technique and a knowledge of the appropriate literature. Student recitals offer opportunity to gain experience in performance. Music majors or other qualified students in performance may present formal recitals.

Credit for Applied Music courses (Music 60 through 69) is earned on a fractional basis—SEE PAGE 58 for the fractional values involved. An Applied Music Course (60 series) should *NOT* be substituted for an academic course in a student's schedule but should be *IN ADDITION TO* the normal four academic courses taken per semester.

Private or Class Instruction in:

60 Piano	62 Strings	64 Brass	66 Percussion
61 Voice	63 Organ	65 Woodwinds	

67 PIANO ENSEMBLE

A course designed to explore piano literature for four and eight hands.

68 VOCAL ENSEMBLE

A course designed to enable any student possessing at least average vocal talent to study choral technique. Emphasis is placed upon tone production, diction and phrasing.

69 INSTRUMENTAL ENSEMBLE

A course directed toward developing fine ensemble music through a study of group instrumental procedures.



PHILOSOPHY

Assistant Professors: Herring (*Chairman*),
Griffith, Schoeman, Whelan

The study of philosophy develops a critical understanding of the basic concepts and presuppositions around which we organize our thought in science, religion, education, morality, the arts, and other human enterprises. A major in philosophy, together with appropriate related courses, can provide an excellent preparation for policy-making positions of many kinds, for graduate study in several fields, and for careers in education, law, and the ministry. The major consists of eight courses, numbered 10 or above, including Philosophy 30-31, ordinarily taken in the Junior year, and Philosophy 45, ordinarily taken in the Senior year. In addition to the courses listed below, special courses and individual studies are available—recent topics include existentialism, Plato's ethics, philosophy in literature, metaethics, Schopenhauer, philosophy of language, and Nietzsche.

5 GENERAL LOGIC

A general introduction to topics in logic and their application to reasoning. Included are definition, syllogistic logic, some modern symbolic logic, informal fallacies, inductive reasoning, and scientific method.

10 INTRODUCTION TO PHILOSOPHICAL PROBLEMS

An inquiry, carried on mainly by discussions and short papers, into a few selected philosophical problems. The problems vary with the instructor; typical examples are: What is a scientific explanation? Are standards of conduct relative? Is talk about God meaningful? Readings in philosophical classics and contemporary books and articles.

20 ETHICS

An inquiry focusing on the question, "What should I do?" and dealing with the content and rationale of the general normative proposals made by egoists, utilitarians, etc., as to how to decide. Usually, a special topic such as legal punishment, human rights, or social justice is examined. Readings in philosophical classics and contemporary books and articles. *Prerequisite: One course in philosophy.*

21 AESTHETICS

A philosophical examination of the nature of art and aesthetic value and a consideration of some of the philosophical problems relating to various art-forms: painting, poetry, theatre, music, etc. Some typical issues discussed are: What sort of reasons, if any, are appropriate in art criticism? Are the arts kinds of language? Is censorship in the arts ever justifiable? *Prerequisite: One course in philosophy, or Junior or Senior major in Art, English, Foreign Language, Music, or Theatre.*

22 SOCIAL AND POLITICAL PHILOSOPHY

An examination of the logic of social and political thought with an analysis of such concepts as society, state, power, authority, freedom, social and political obligation, law, and rights. Reading in philosophical classics and contemporary books and articles. *Prerequisite: One course in philosophy, or Junior or Senior major in Political Science or Sociology.*

24 PHILOSOPHY OF SCIENCE

A consideration of philosophically important conceptual problems related primarily to the methodology of science, including such topics as the nature of scientific laws and theories, the character of explanation, the import of prediction, the existence of "non-observable" theoretical entities such as electrons and genes, the problem of justifying induction, and various puzzles associated with probability. *Prerequisite: One course in philosophy, or Junior or Senior major in Biology, Chemistry, Physics, Psychology, or Sociology.*

25 PHILOSOPHY OF RELIGION

A study of religion from the standpoint of philosophy, with special emphasis on the nature of man, the problem of good-and-evil, and the philosophical bases for belief in God and in immortality. Assignments include readings from ancient, modern, and contemporary writers. *Prerequisite: One course in philosophy, or Junior or Senior major in Religion.*

26 PHILOSOPHY OF EDUCATION

An examination of the basic concepts involved in thought about education, the main models for viewing the educational process, and some of the competing values and principles which education involves. Typical of the questions discussed are: What is liberal education? Are education and indoctrination really different? Are student freedom and intellectual authority compatible? *Prerequisite: One course in philosophy, or Junior or Senior standing in education.*

29 PHILOSOPHY OF HISTORY

An examination of the concept of history, dealing with the logic of historical inquiry and with speculative treatments of the course of history as a whole. The primary purpose is to provide a philosophical analysis of the descriptive language and explanatory reasoning of historians. In addition, some attention will be paid to the values and limitations of speculative and general interpretations of history, for example: those of Hegel and Marx. *Prerequisite: One course in philosophy, or Junior or Senior major in history. Alternate years.*

30-31 HISTORY OF PHILOSOPHY

A philosophical study of the history of Western philosophy. The primary concern is to understand the fundamental theories of the great philosophers, including: Plato, Aristotle, St. Thomas Aquinas, Descartes, Locke, Hume, Kant, and more recent thinkers. A second concern is to see the relation of these theories to our Western intellectual traditions. Central to the course are readings in philosophical classics. *Prerequisite: One course in philosophy; not open to Freshmen and Sophomores.*

36 SYMBOLIC LOGIC

A study of modern symbolic logic, including truth-functional logic, the logic of propositional functions, and deductive systems. Attention is also given to various topics in the philosophy of the formal sciences.

38 METAPHYSICS

A study of the meaning and nature of reality, and a critical examination of the leading philosophical world-views, such as realism and idealism, with the aim of developing a better perspective for the understanding of life. *Prerequisite: One course in philosophy; not open to Freshmen.*

45 EPISTEMOLOGY

An inquiry, carried on primarily by discussions and short papers, into contemporary philosophical problems and theories about knowing, perceiving, truth, and meaning. The nature of philosophical thought is examined. *Prerequisite: Two courses in philosophy.*

49 DEPARTMENTAL SEMINAR

An investigation, carried on by discussions and papers, into one philosophical problem, text, philosopher, or movement. A different topic is selected each semester; recent topics include Sidgwick's ethics, religious language, Kierkegaard, legal punishment, and Wittgenstein. This seminar is designed to provide Junior and Senior philosophy majors and other qualified students with more than the usual opportunity for concentrated and cooperative inquiry. *Prerequisite: Consent of the instructor. This seminar may be repeated for credit.*

PHYSICAL EDUCATION

Associate Professor: Busey
Assistant Professors: Burch (*Chairman*)
Miller, Vargo, Whitehill
Instructor: Phillips

1 PHYSICAL EDUCATION (MEN)

Basic instruction in fundamentals, knowledge, and appreciation of sports that include swimming, softball, tennis, bowling, volleyball, archery, track, soccer, wrestling, physical fitness, and golf. Proficiency in swimming is required. Emphasis is on the potential of these activities as tension relievers and their use as recreational and leisure time interests in post-college life. Two semesters of physical education (two hours per week) are required.

2 PHYSICAL EDUCATION (WOMEN)

Basic instruction in fundamentals of swimming, tennis, badminton, bowling, volleyball, field hockey, free exercise, modern dance, elementary games (for elementary teachers), and physical fitness. Proficiency in swimming is required. Emphasis is on the potential of these activities as tension relievers and their use as recreational and leisure time interests in post-college life. Two semesters of physical education (two hours per week) are required.

PHYSICS

Professor: Fineman (*Chairman*)
Associate Professor: W. Smith
Assistant Professor: Jamison

A major consists of eight courses, of which six must be numbered above 20. Physics 23, 29, 33, 48; Mathematics 10-11, 20, 21; and one year of chemistry are required. Students planning to enter graduate school will find it advisable to have a reading knowledge of a foreign language and to know Fortran programming. All junior and senior physics majors are required to attend and to participate in the weekly physics colloquia in preparation for physics 48.

1-2 ELEMENTS OF PHYSICS

A non-calculus introductory course in which mechanics, heat, sound, electricity, magnetism, and optics are presented. Some recent developments in physics will also be presented. *Three lectures, one recitation and one three-hour laboratory session. Prerequisite: Mathematics 1 or equivalent.*

3-4 PHYSICAL SCIENCE

This course will present and explain some of the fundamental principles of the physical sciences: Physics, Astronomy, Earth Science, and Chemistry—in such a manner that liberal arts students will realize that science is not only comprehensible but exciting. The emphasis of the course will be conceptual rather than mathematical. It will meet the college's natural science distribution requirement. *Three lectures, one recitation, and two-hour laboratory session. Prerequisite: Mathematics 1 or equivalent.*

10-11 GENERAL PHYSICS

An introductory course in physics for science and engineering students, in which the basic concepts of mechanics, thermodynamics, electricity, magnetism and light are presented using calculus. *Three lectures, one recitation and one three-hour laboratory session. Corequisite: Mathematics 10 or Mathematics 3.*

21 THE CONCEPTS OF MODERN PHYSICS

The purpose of this elective course is to provide Arts and Humanities majors, who have a minimum background in mathematics and physics, to satisfy their curiosity about the nature of the physical world without being concerned about doing a lot of problem solving. The course will include discussions in an historical and philosophical framework of the mechanical concepts (mass, space, time, force, momentum, and energy), of a few topics in relativity and of the discovery, detection and use of some of the elementary particles of physics and their impact on contemporary physical thought. *Four hours lecture-discussion. Prerequisite: Mathematics 1 or equivalent.*

23 MODERN PHYSICS

The basic concepts of Modern Physics are examined; the wave-particle duality and the fundamental ideas of quantum mechanics; atomic structure; x-ray spectra; interaction of radiation and matter; nuclear models and nuclear structure, radioactivity, nuclear reactions; molecular and solid state physics. Special relativity. This course is the foundation for a systematic study of quantum mechanics. *Three lectures and one four-hour laboratory. Prerequisite: Physics 11 or consent of instructor.*

29-30 ELECTRICITY AND MAGNETISM

This course will cover the electrostatic field, electric potential, magnetic field and the electrical and magnetic properties of matter. Maxwell's equations and some of their applications to electromagnetic radiation will be taken up. The laboratory will include experiments on basic electronics as well as classical electricity and magnetism experiments. *Three lecture and two two-hour laboratory sessions. Prerequisite: Physics 23; Co-requisite: Mathematics 21 or consent of instructor.*

31 OPTICS AND WAVES

Following a presentation of geometrical optics, wave motion, inference; Fresnel and Fraunhofer diffraction, gratings; the velocity of light, absorption and scattering, and polarization of light will be covered. *Three hours lecture and one four-hour laboratory session. Prerequisite: Physics 11 or consent of instructor. Alternate years.*

33-34 MECHANICS

The study of the motion of a single particle, a system of particles, rigid bodies and an introduction to the mechanics of continuous media will be covered. Topics which are needed for understanding quantum mechanics and special theory of relativity such as moving reference systems. Lagrange's equations and theory of vibrations will be examined. *Three lectures, and a recitation or a laboratory. Prerequisite: Physics 11; Mathematics 21 or consent of instructor.*

35 THERMAL PHYSICS

The laws of thermodynamics and their applications to some physical, chemical, electric and magnetic problems are presented. The properties of bulk matter will also be treated from a microscopic viewpoint, i.e., the kinetic theory of gases and statistical mechanics. A comparison of Maxwell-Boltzmann, Fermi-Dirac and Bose-Einstein statistics is made. *Four hours of lecture and recitation. Prerequisite: Physics 33 or consent of instructor.*

39 INTRODUCTION TO QUANTUM MECHANICS

After presenting the origin, basic concepts and formulation of Quantum Mechanics with emphasis on its physical meaning the free particle, simple harmonic oscillator and central force problems will be investigated. Both time independent and time dependent perturbation theory will be covered. The elegant operator formalism of quantum mechanics will conclude the course. *Four hours of lecture and recitation. Prerequisite: Physics 23 or Chemistry 31; Mathematics 21; and Physics 29 or consent of instructor.*

41 ELEMENTS OF NUCLEAR PHYSICS

With the tools obtained after a review of nuclear concepts and some quantum mechanics, the course will cover interactions of nuclear radiations with matter, radioactive decay and nuclear reactions. The understanding of nuclear forces will be emphasized, particularly from scattering studies of two-nucleon systems. *Three lectures and four-hour laboratory. Prerequisite: Physics 39; or Physics 23 and consent of instructor.*

42 SOLID STATE PHYSICS

Introductory treatment of crystallography, lattice dynamics, electrons in metal, properties of semiconductors and dielectric and magnetic properties of solids will be given. *Three lectures and four-hour laboratory. Prerequisite: Physics 39; or Physics 23 and consent of instructor.*

48 PHYSICS COLLOQUIA (SENIOR COURSE)

In this course, professionally active physicists or scientists in closely allied fields present lectures on their own research or professional activities. In addition, the student will do a literature review and present his results at one of the colloquia. *Prerequisite: Three semesters of the non-credit Physics Colloquia 00 taken during their junior and senior years.*

POLITICAL SCIENCE

Professor: Jose
Associate Professor: Giglio (*Chairman*)
Assistant Professor: Roskin
Instructor: Knepp

A major consists of Political Science 10, 20, and six other courses. Directed programs are arranged for majors concentrating upon specialized areas of political science.

10 THE GOVERNMENT OF THE UNITED STATES: NATIONAL

An introduction to the principles, structure, functions, and operations of the national government, with special reference to expansions to meet the problems of a modern society.

11 THE GOVERNMENT OF THE UNITED STATES: STATE AND LOCAL

An examination of the general principles, major problems, and political processes of the states and their subdivisions, together with their role in a federal type of government.

20 COMPARATIVE GOVERNMENT

Western European political systems. A comparative analysis of the governments of Great Britain, the Soviet Union and other selected Western European political systems.

21 COMPARATIVE GOVERNMENT

Political development. A comparative analysis of selected developing systems in Asia, Africa, and Latin America.

22 POLITICAL PARTIES AND INTEREST GROUPS

An examination of the history, organization, functions, and methods of American political parties. Attention devoted to the role of organized interest groups in the political process.

23 THE AMERICAN PRESIDENCY

A study of the office and powers of the President with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, commander-in-chief, and head of state. Especial attention given to those Presidents who led the nation boldly.

30 THE AMERICAN CONSTITUTION

A presentation of the origins and development of the Constitution, their dominant roles in the government of the United States, and the social forces and dynamic needs which have molded the growth of fundamental law through the Civil War.

31 THE AMERICAN CONSTITUTION

A presentation of the origins and development of the Constitution, their dominant roles in the government of the United States, and the social forces and dynamic needs which have molded the growth of fundamental law from Reconstruction to the present time.

32 MUNICIPAL GOVERNMENT

An inquiry into the dynamics of municipal government, its legal status and administration, and present-day experiments in the solution of the problems of metropolitan societies.

33 PUBLIC ADMINISTRATION

A systematic description, analysis, and evaluation of the institutional foundations of the American system of public administration, with special attention to structure, personnel, and control.

34 WORLD POLITICS

An introduction to the theory and practice of international relations in the twentieth century. Foundations of world order: origin and present trends in the international system; analysis of variables governing the relations between states.

36 THE GOVERNMENT AND POLITICS OF THE SOVIET UNION

The study of the theory and practice of the political system in the Soviet Union emphasizing the ideological heritage, the functioning of the system, and the particular problems of a one-party state. *Alternate years.*

37 THE FOREIGN POLICY OF THE SOVIET UNION

The study of the growth of Soviet involvement in world affairs including the introduction of Soviet political institutions to Eastern Europe and Asia, the ideological basis of Soviet foreign policy, and the conduct and formation of Soviet foreign policy. *Alternate years.*

38 COMPARATIVE FOREIGN POLICIES

An introductory examination of the formulation, conduct, and substance of the foreign policies of representative states in the international system.

40 POLITICAL THOUGHT

An exposition of the course of major political ideas and doctrines throughout history, an appraisal of their influence, and an analysis of their applicability to contemporary political issues. *Alternate years.*

43 INTERNATIONAL ORGANIZATION

An examination of the structure and function of the League of Nations and particularly the United Nations with emphasis on activities related to the maintenance of international peace and security. *Alternate years.*



PSYCHOLOGY

Associate Professor: Loomis (*Chairman*), Hancock
Assistant Professors: Brittain, Hurr, O'Brien

A major consists of Psychology 10, 20, 21, 22, and four other psychology courses. Mathematics 5 is also required. In addition to the departmental requirements, majors are urged to include courses in Animal Physiology, Sociology, and the Mathematics option of the distribution requirement.

10 INTRODUCTORY PSYCHOLOGY

An introduction to the empirical study of human and other animal behavior. Areas considered may include: learning, personality, social, physiological, sensory, cognition and developmental.

15 ORGANIZATIONAL AND INDUSTRIAL PSYCHOLOGY

The application of the principles and methods of psychology to selected organizational and industrial situations. *Prerequisite: Psychology 10.*

16 ABNORMAL PSYCHOLOGY

An introduction to the patterns of deviant behavior with emphasis on cause, function, and treatment. The various models for the conceptualization of abnormal behavior are critically examined. *Prerequisite: Psychology 10.*

20 SENSORY EXPERIMENTAL PSYCHOLOGY

The examination of psychophysical methodology and basic neurophysiological methods as they are applied to the understanding of sensory processes. *Prerequisite: Psychology 10; Mathematics 5.*

21 LEARNING EXPERIMENTAL PSYCHOLOGY

Learning processes. The examination of the basic methods and principles of animal and human learning. *Prerequisite: Psychology 10; Mathematics 5.*

22 PERSONALITY THEORY

Theories of Personality. A comparison of different theoretical views on the development and functioning of personality. Examined in detail are three general viewpoints of personality; psychoanalytic, stimulus-response (behavioristic), and phenomenological. *Prerequisite: Psychology 10.*

30 SOCIAL PSYCHOLOGY

An examination of behavior in social contexts including motivation, preception, group processes and leadership, attitudes, and methods of research. *Prerequisite: Psychology 10.*

31 DEVELOPMENTAL PSYCHOLOGY

A study of the basic principles of early human growth and development. *Prerequisite: Psychology 10.*

32 ADOLESCENT PSYCHOLOGY

The study areas will include theories of adolescence; current issues raised by as well as about the "generation of youth"; research findings bearing on theories and issues of growth beyond childhood; and self-exploration. *Prerequisite: Psychology 10.*

33 PHYSIOLOGICAL PSYCHOLOGY

A study of the nervous system as the physiological basis of behavior. *Prerequisite: Psychology 20 or Biology 23. Alternate years.*

34 PRINCIPLES OF MEASUREMENT

Psychometric method and theory, including scale transformation, norms, standardization, validation procedures and estimation of reliability. *Prerequisite: Psychology 10, Mathematics 5.*

35 HISTORY AND SYSTEMS OF PSYCHOLOGY

The growth of scientific psychology and the theories and systems that have accompanied its development. *Prerequisite: 4 courses in Psychology.*

37 COGNITION

An investigation of human mental processes along the two major dimensions of directed and undirected thought. Topic areas include: recognition, attention, conceptualization, problem-solving, fantasy, language, dreaming, and creativity. *Prerequisite: Psychology 10.*

38 EDUCATIONAL PSYCHOLOGY

An introduction to the empirical study of the teaching-learning process. Areas considered may include educational objectives, pupil and teacher characteristics, concept learning, problem solving and creativity, attitudes and values, motivation, retention and transfer, and evaluation and measurement. *Prerequisite: Psychology 10, and Mathematics 5 or consent of instructor.*

40 ADVANCED EXPERIMENTAL DESIGN

Consideration of a variety of designs currently used in Psychology with emphasis on the appropriate statistical analyses. *Prerequisite: Psychology 20 and 21.*

48-49 PRACTICUM IN PSYCHOLOGY

A student-defined course which provides the opportunity to gain direct experience in a field of applied Psychology. Possibilities include a supervised program in administering and interpreting selected psychological tests, working with the mentally retarded, or working with emotionally distressed individuals and families. Specifics are worked out between the student and the course supervisor. *Prerequisite: Consent of instructor.*



RELIGION

Professor: Guerra (*Chairman*)
Associate Professor: Rhodes
Assistant Professors: Hughes, Lutz, Neuffer

A major consists of ten courses including 10, 13, and 14. At least seven courses must be taken in the department. The following courses may be counted toward fulfilling the major requirements: Greek 11 and 12, Hebrew 11 and 12, History 41 and 48, Philosophy 25, and Sociology 33.

10 PERSPECTIVES ON RELIGION

An exploration of religious responses to ultimate problems of human existence. Through discussion of selections by Protestant, Catholic, Jewish, and humanist writers, students are encouraged to grapple with such questions as the nature and language of religion, the existence and knowledge of God, the inter-play of religion and culture, and the religious analysis of the human predicament.

13 OLD TESTAMENT FAITH AND HISTORY

A critical examination of the literature within its historical setting and in the light of archeological findings to show the faith and religious life of the Hebrew-Jewish community in the biblical period, and an introduction to the history of interpretation with an emphasis on contemporary Old Testament criticism and theology.

14 NEW TESTAMENT FAITH AND HISTORY

A critical examination of the literature within its historical setting to show the faith and religious life of the Christian community in the biblical period, and an introduction to the history of interpretation with an emphasis on contemporary New Testament criticism and theology.

20 GOD AND MAN IN WESTERN CULTURE I

An inquiry into the changing images of God and man in Western Culture, as these have been influenced by various religious traditions, particularly the Christian. The course will deal with leading men and motifs from St. Paul through the Reformation, and up to Eighteenth Century Deism. *Prerequisite: Religion 10 or 14, or consent of instructor.*

21 GOD AND MAN IN WESTERN CULTURE II

A continuation of Religion 20, beginning with the attempts of Schleiermacher and Hegel to re-integrate religion and culture, tracing the subsequent process through Niebuhr and Tillich to the present "Post-Liberal" period. *Prerequisite: Religion 20, or consent of instructor.*

23 RELIGIONS OF THE WORLD: AFRICAN RELIGIONS

Primitive man's beliefs about himself, his gods, his oneness with the land and his fellow animals, and his feelings about community will be investigated.

24 RELIGIONS OF THE WORLD: ISLAM AND JUDAISM

Major emphasis upon tradition and contemporary forms of Islam and Judaism, their growth and development investigating their current status and their major problems in the Middle East, Africa, Asia, and the United States.

25 RELIGIONS OF THE WORLD: ORIENTAL RELIGION

A phenomenology of the formative forces and concepts of Indian, Chinese, and Japanese religions; special attention devoted to social and political relations, mythical and aesthetic forms. East and West encounter.

26 HISTORY AND RELIGION OF THE ANCIENT NEAR EAST

A study of the religions and history of Mesopotamia, Anatolia, Syria-Palestine, and Egypt from the rise of Sumerian culture to Alexander the Great.

27 CULTURE OF THE ANCIENT NEAR EAST

An analysis of the culture of the Ancient Near East with special reference to the role of religion. The course will be taught with an emphasis on archeological findings.

31 CHRISTIAN SOCIAL ETHICS

An unfolding of ethics as horizon, engagement, destiny; an interdisciplinary theoretical study closely related to the practical problems of violence and power, racism and revolution, assassination and authority.

32 CONTEMPORARY PROBLEMS IN CHRISTIAN SOCIAL ETHICS

An examination of the approach of religion and other disciplines to an issue of current concern; prospective topics include the ethics of violence, the social thought of Jacques Ellul, and the ethics of genetic control. *Prerequisite: Religion 31, or consent of instructor.*

33 ROMAN CATHOLIC THOUGHT

The development of Thomism, Neo-Thomism, and Transcendental Thomism; limited attention given to pastoral and ecclesiological issues in the post-conciliar era after Vatican II.

35 REDACTION HISTORY AND THE GOSPELS

Contemporary views of the relationship between the evangelist's theology and his way of arranging the gospel tradition. A study of the several interpretations of Jesus both in the Synoptics and in the Fourth Gospel.

36 ADVANCED OLD TESTAMENT TOPICS

A critical examination of one topic in Old Testament study from among the following: prophecy, the Pentateuch, wisdom literature, biblical theology. The content of the course will vary from year to year.

38 ADVANCED NEW TESTAMENT TOPICS

A critical examination of one topic in New Testament study from among the following: The Teaching of Jesus, New Testament Christology, Pauline Theology, Current issues in New Testament Interpretation. The content of the course will vary from year to year.

41 CONTEMPORARY RELIGIOUS ISSUES

A study of the theological significance of some contemporary intellectual developments in western culture. The content of this course will vary from year to year. Subjects studied in recent years include the following: the theological significance of Freud, Marx, and Nietzsche; Christianity and existentialism; theology and depth psychology; and the religious dimension of contemporary literature. *Prerequisite: Religion 10.*

42 THE NATURE AND MISSION OF THE CHURCH

A study of the nature of the church and its mission in contemporary society including an analysis of the role of the church and an examination of ways of renewal.

43 THE EDUCATIONAL MINISTRY OF THE CHURCH

A study of religious education as a function of the church with special attention given to the nature and objectives of Christian education, methods of teaching religion, and the relations between faith and learning.

45 JUDAISM AND CHRISTIANITY IN THE NEW TESTAMENT

A study of the ways in which New Testament Christianity is indebted to Judaism in theology, ethics, and institutions.

46 PALESTINIAN ARCHEOLOGY

A study of basic archeological method in addition to representative excavations and artifacts from the various historical eras as are found in Palestine and its environs.

47 FIELD PALESTINIAN ARCHEOLOGY

Participation in an archeological excavation during the summer months; the archeological expedition is usually conducted in cooperation with the American Schools of Oriental Research. Also guided travel to archeological sites and museums of biblical and non-biblical importance. The student bears the expense of his own travel, but the college makes all the arrangements.

48 ADVANCED PALESTINIAN ARCHEOLOGY

An in-depth study of some archeological problem or a detailed analysis of data from a current archeological excavation related to biblical research.



SOCIOLOGY AND ANTHROPOLOGY

Professors: McCrary (*Chairman*), Mook
Assistant Professor: Arroyo
Instructor: Rux

A major consists of Sociology 10, 14, 31, 44, and four other courses, which may include any two courses from Religion 46, 47, and 48.

10 INTRODUCTION TO SOCIOLOGY

An introduction to the problems, concepts, and methods in sociology today, including analysis of stratification, organization of groups and Institutions, social movements, and deviants in social structure.

14 INTRODUCTION TO ANTHROPOLOGY

Prehistoric and primitive peoples and cultures; primitive customs and institutions compared with those of modern man.

20 MARRIAGE AND THE FAMILY

The history, structure, and functions of modern American family life, emphasizing dating, courtship, factors in marital adjustment, and the changing status of family members. *Prerequisite: Sociology 10 or consent of instructor.*

22 FOLK SOCIETY

Comparative study of several folk societies, with emphasis upon the Pennsylvania Amish; folk culture contrasted with urban-industrial civilization.

24 RURAL AND URBAN COMMUNITIES

The concept of community is treated as it operates and affects individual and group behavior in rural, suburban, and urban settings. Emphasis is placed upon characteristic institutions and problems of modern city life. *Prerequisite: Sociology 10 or consent of instructor.*

26 SOCIAL MOVEMENTS

An analysis of the dynamics, structure, and reaction to social movements with focus on contemporary social movements. *Prerequisite: Sociology 10 or consent of instructor.*

30 CRIMINOLOGY

The nature, genesis, and organization of criminal behavior are examined from both group and individual viewpoints. Juvenile delinquency and the treatment of crime are presented. *Prerequisite: Sociology 10 or consent of instructor.*

32 INSTITUTIONS

Introduces the student to the sociological concept of social institution, the types of social institutions to be found in all societies, and the interrelationships between the social institutions within a society. The course is divided into two basic parts: 1. That aspect which deals with the systematic organization of society in general, and 2. The concentration on a particular social institution: economic, political, educational, and social welfare. *Prerequisite: Sociology 10 or consent of instructor.*

33 SOCIOLOGY OF RELIGION

An examination of the major theories of the relationship of religion to society, and a survey of sociological studies of religious behavior. *Prerequisite: Sociology 10 or consent of instructor.*

34 RACIAL AND CULTURAL MINORITIES

A study of the adjustments of minority racial, cultural, and national groups in modern America. Attention is also given to minority problems within their world setting. *Prerequisite: Sociology 10 or consent of instructor.*

35 CULTURAL ANTHROPOLOGY

Primitive and peasant economy, society, government, religion, and art, the social and cultural backgrounds of personality development. *Prerequisite: Sociology 14 or consent of instructor.*

37 ANTHROPOLOGY OF NORTH AMERICA

Ethnographic survey of native North American Eskimo and Indian cultures, with attention to changes in native lifeways due to European contacts. *Prerequisite: Sociology 14 or consent of instructor.*

41 SOCIAL STRATIFICATION

An analysis of the nature of stratification systems, with special reference to American social structure. *Prerequisite: Sociology 10 or consent of instructor.*

43 DEVIANT BEHAVIOR

An inquiry into the various types of deviant behavior, that will vary each semester, covering such topics as: alcoholism, mental illness, gambling, and narcotics. *Prerequisite: Sociology 10 or consent of instructor.*

44 SOCIAL THEORY

The history of the development of sociological thought from its earliest philosophical beginnings is treated through discussions and reports. Emphasis is placed upon sociological thought since the time of Comte. *Prerequisite: Sociology 10 or consent of instructor.*

45 ETHNOLOGICAL THEORY

Theories concerning man and his culture, with emphasis on interpretations since 1850. *Prerequisite: Sociology 14 and consent of instructor.*

47 RESEARCH METHODS IN SOCIOLOGY

Study of the research process in sociology, including formation of research design (theory, methodology, and techniques), and practical application in the investigation of a research problem. *Prerequisite: Mathematics 5 and Sociology 10 and consent of instructor.*

48-49 PRACTICUM IN SOCIOLOGY

Introduces the student to a practical work experience involving community agencies in order to effect a synthesis of the student's academic course work and its practical applications in a community agency. Specifics of the course to be worked out in conjunction with department, student, and agency. *Prerequisite: Sociology 10 or consent of instructor.*



THEATRE

Associate Professor: Falk (*Chairman*)

Instructor: Dartt

Part-Time Instructor: Malin

The major consists of eight courses, except Theatre 1, with a concentration in Acting, Directing, or Design. The Fine Arts requirement may be satisfied by selecting any two courses, except Theatre 1. In addition to the departmental requirements, majors are urged to include courses in Art, Music, Psychology, and English.

1 FUNDAMENTALS OF SPEECH

The dynamics of oral communication. The development of elementary principles of simple oral communication through lectures, prepared assignments in speaking, and informal class exercises. Utilizes video tape sequences for "instant feedback" to students.

10 INTRODUCTION TO THEATRE AND FILM

A consideration of the various elements of modern theatre, including acting, directing, films, and television.

12 HISTORY OF THEATRE I

A detailed study of the development of theatre from the Greeks to the early realistic period. *Alternate years.*

13 HISTORY OF THEATRE II

The history of the theatre from 1860. *Alternate years.*

14 ORAL INTERPRETATION OF LITERATURE

The fundamental principles and methods of oral reading and the interpretation of literature are introduced. Materials will be chosen from poetry, prose, the novel, and drama.

15 PLAYWRITING AND DRAMATIC CRITICISM

An investigation of the techniques of playwriting with an emphasis on creative writing, culminating in a written one-act play, plus an historical survey of dramatic criticism from Aristotle to the present, with emphasis upon developing the student's ability to write reviews and criticism of theatrical productions and films. *Alternate years.*

18 PLAY PRODUCTION FOR COMMUNITY AND SECONDARY SCHOOLS

Stagecraft and the various other aspects of play production are introduced. Through material presented in the course and laboratory work on the Arena Theatre stage, the student will acquire experience to produce theatrical scenery for community and secondary school theatre.

20 CREATIVE DRAMA FOR CHILDREN

Designed especially for those intending to be teachers, this course explores the dramatic possibilities of creative playmaking for children on all grade levels. Special emphasis is placed on storytelling, dramatization, pantomime, and dramatic play.

24 INTRODUCTION TO ACTING

An introductory study of the actor's preparation, with emphasis on developing the actor's creative imagination through improvisations and scene study.

26 INTRODUCTION TO DIRECTING

An introductory study of the function of the director in preparation, rehearsal, and performance. Emphasis is placed on developing the student's ability to analyze scripts and on the development of the student's imagination.

28 INTRODUCTION TO SCENE DESIGN AND STAGECRAFT

An introduction to the theatre with an emphasis on stagecraft. The productions each semester serve as the laboratory to provide the practical experience necessary to understand the material presented in the classroom.

29 MARIONETTE PRODUCTION

Introduces the construction, costuming, and performing of a play through the medium of string puppets.

31 ADVANCED TECHNIQUES OF PLAY PRODUCTION

A detailed consideration of the interrelated problems and techniques of play analysis, production styles, and design. Offered summer only.

34 INTERMEDIATE STUDIO: ACTING

Instruction and practice in character analysis and projection, with emphasis on vocal and body techniques.

35 THEORIES OF THE MODERN THEATRE

An advanced course exploring the philosophical roots of the modern theatre from the birth of realism to the present, and the influences on modern theatre practice. Selected readings from Neitzsche, Marx, Jung, Freud, Whitehead, Kierkegaard, Sarte, Camus, as well as Antoine, Copeau, Stanislavski, Shaw, Meyerhold, Artaud, Brecht, Brook, Grotowski. *Alternate years.*

36 INTERMEDIATE STUDIO: DIRECTING

Emphasis is placed on the student's ability to function in preparation and rehearsal. Practical experience involves the directing of scenes from contemporary theatre.

38 INTERMEDIATE STUDIO: SCENE AND LIGHTING DESIGN

The theory of stage and lighting design with special emphasis on their practical application to the theatre.

40 MASTERS OF WORLD DRAMA

An intensive and detailed analysis of the plays, and related works, including criticism of great authors, that have shaped world theatre. Authors to be selected on the basis of interest of students and faculty. At times, more than one author will be treated in a term. Ibsen, Brecht, Moliere, Williams, Albee.

44 ADVANCED STUDIO: ACTING

Preparation of monologues and two-character scenes. Contemporary and classical. The student will appear in major campus productions.

46 ADVANCED STUDIO: DIRECTING

Emphasis will be placed on the student's ability to produce a major three-act play from the script to the stage for public performance.

48 ADVANCED STUDIO: DESIGN

Independent work in conceptual and practical design. The student will design one full production as his major project.

49 ADVANCED STUDIO: PROPERTIES AND COSTUME DESIGN

The theory of stage costume and property design and its practical application to the theatre. *Prerequisite: Consent of Instructor.*



COLLEGE PERSONNEL

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Ralph E. Kelchner	Jersey Shore
Arnold A. Phipps, II	Williamsport
George L. Stearns, II	Williamsport
The Rev. L. Elbert Wilson	Orlando, Fla.

TRUSTEES

Term Expires 1973

Elected

1964 John G. Detwiler	Williamsport
1948 Frank L. Dunham	Wellsboro
1970 Walter T. Dunston, D.D.S.	Philadelphia
<i>(Alumni Representative)</i>	
1951 Paul G. Gilmore	Williamsport
1964 Hon. Charles F. Greevy	Williamsport
1969 The Rev. Thomas J. Hopkins, D.D.	Tyrone
1964 W. Gibbs McKenney, Jr.	Baltimore, Md.
1958 Fred A. Pennington	Mechanicsburg
1961 The Rev. Wallace F. Stettler, HH.D.	Kingston
1970 William E. Strasburg, Litt.D.	Ambler

Term Expires 1974

Elected

- 1967 The Rev. Grantas E. Hoopert, D.D. Williamsport
- 1965 James G. Law Bloomsburg
- 1971 The Rev. Harvey W. Marsland Allentown
- 1970 John E. Person, Jr. Williamsport
- 1965 Hon. Herman T. Schneebeli Williamsport
- 1972 Donald E. Shearer, M.D. Montoursville
- 1969 Charles J. Stockwell Williamsport
- 1961 Nathan W. Stuart Williamsport
- 1971 Willis W. Willard, III, M.D. Hershey
(Alumni Representative)
- 1958 W. Russell Zacharias Allentown

Term Expires 1975

Elected

- 1969 Richard R. Cramer, D.D.S. Hershey
- 1969 Samuel H. Evert Bloomsburg
- 1972 The Rev. Brian A. Fetterman Lewistown
- 1965 Walter J. Heim Montoursville
- 1969 Kenneth E. Himes Williamsport
- 1970 Woodrow A. Knight Williamsport
- 1972 John W. Lundy Williamsport
- 1969 Mrs. Donald G. Remley Williamsport
- 1972 Harold H. Schreckengast, Jr. Jenkintown
(Alumni Representative)
- 1967 The Rev. Donald H. Treese Altoona

EXECUTIVE COMMITTEE

Walter J. Heim, Chairman

- Richard R. Cramer
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- Woodrow A. Knight
- W. Gibbs McKenney, Jr.
- John E. Person, Jr.
- Charles J. Stockwell
- Nathan W. Stuart
- W. Russell Zacharias



ADMINISTRATIVE STAFF

- HAROLD H. HUTSON (1969) President
B.A., L.L.D., Wofford College; B.D., Duke University; Ph.D., University of Chicago; L.H.D., Ohio Wesleyan
- JAMES R. JOSE (1970) Dean of the College
B.A., Mount Union College; M.A., Ph.D., The American University
- KENNETH E. HIMES (1948) Treasurer and Business Manager
B.S., Drexel University; G.S.B., Rutgers University
- OLIVER E. HARRIS (1956) Director of Development
A.B., M.S., The Pennsylvania State University
- R. ANDREW LADY (1957) Assistant to the President
A.B., Lycoming College; M.S., D.Ed., The Pennsylvania State University
- JACK C. BUCKLE (1957) Dean of Student Services
A.B., Juniata College; M.S., Syracuse University
- ANTHONY L. GRILLO (1969) Librarian
B.S., The Pennsylvania State University; M.S. in L.S., Villanova University
- FRANK J. KAMUS (1963) Director of Admissions
B.S., Lock Haven State College
- ROBERT J. GLUNK (1965) Registrar and Assistant to the Dean
A.B., Lycoming College; M.A., The Pennsylvania State University
- DAVID G. BUSEY (1954) Director of Athletics
B.S., M.S., University of Illinois
- WILLIAM L. BAKER (1965) Student Aid Director &
B.S. Lycoming College Assistant Business Manager
- DALE V. BOWER (1968) Director of Alumni Affairs
B.S., Lycoming College; B.D., United Theological Seminary
- BRUCE L. SWANGER (1968) Director of Public Relations
A.B., Bucknell University
- JOSEPH P. LAVER, JR. (1969) Director of Publications
A.B., University of Pennsylvania; M.S., University of Bridgeport
- L. PAUL NEUFER (1960) Director of Religious Activities
A.B., Dickinson College; S.T.B., S.T.M., Boston University
- ROBERT L. CURRY, JR. (1972) Assistant in Athletics
A.B., Lycoming College
- THOMAS C. DEVLIN (1971) Assistant Dean of Student Services
B.A., State University of New York, Geneseo; M.A., Bowling Green University
- DOUGLAS J. KEIPER (1970) Assistant Dean of Student Services
A.B., Lycoming College; M.Ed., The Pennsylvania State University
- TONY K. SCHEPIS (1971) Assistant Director of Admissions
A.B., Lycoming College
- GRETCHEN O. SCHIPPER (1972) Assistant Director of Admissions
B.S., Simpson College
- R. ALBION SMITH (1971) Assistant Dean of Student Services
B.S., Springfield College; M.S.S., Syracuse University
- ANNA D. WEITZ (1970) Assistant Dean of Student Services
A.B., Boston University; M.S., State University of New York, Albany

FACULTY

EMERITI

- MABEL K. BAUER Professor Emeritus of Chemistry
B.S., Cornell University; M.S., University of Pennsylvania
- ARNOLD J. CURRIER Professor Emeritus of Chemistry
A.B., Colgate University; M.S., The Pennsylvania State University; Ph.D., Cornell University
- LEROY F. DERR Professor Emeritus of Education
A.B., Ursinus College; M.A., Bucknell University; Ed.D., University of Pittsburgh
- W. ARTHUR FAUS Professor Emeritus of Philosophy
A.B., Dickinson College; S.T.B., Ph.D., Boston University
- PHIL G. GILLETTE Associate Professor Emeritus of Spanish
A.B., Ohio University; M.A., Columbia University
- HAROLD W. HAYDEN Librarian Emeritus and Professor Emeritus
of Library Services
A.B., Nebraska State Teachers College; B.S., University of Illinois; M.A. in L.S., University of Michigan
- GEORGE W. HOWE Professor Emeritus of Geology
A.B., M.S., Syracuse University; Ph.D., Cornell University
- DON L. LARRABEE Lecturer Emeritus in Legal Principles
A.B., Allegheny College; Graduate Division of the Wharton School; Law School of the University of Pennsylvania
- DONALD G. REMLEY Assistant Professor Emeritus of
Mathematics and Physics
A.B., Dickinson College; M.A., Columbia University
- ERIC V. SANDIN Professor Emeritus of English
B.S., Wesleyan University; M.A., Columbia University; Ph.D., University of Illinois
- GEORGE S. SHORTESS Professor Emeritus of Biology
A.B., Johns Hopkins University; M.A., Columbia University; Ph.D., Johns Hopkins University
- JOHN A. STUART Professor Emeritus of English
B.A., William Jewell College; M.A., Ph.D., Northwestern University
- HELEN B. WEIDMAN Professor Emeritus of Political Science
A.B., M.A., Bucknell University; Ph.D., Syracuse University



PROFESSORS

- ROBERT H. EWING (1947)History....Assistant Mace Bearer
A.B., College of Wooster; M.A., University of Michigan
- MORTON A. FINEMAN (1966)Physics
A.B., Indiana University; Ph.D., University of Pittsburgh
- JOHN P. GRAHAM (1939) English....Mace Bearer
Ph.B., Dickinson College; M.Ed., The Pennsylvania State University
- EDUARDO GUERRA (1960)* Religion
B.D., Southern Methodist University; S.T.M., TH.D., Union Theological Seminary
- JAMES K. HUMMER (1962)Chemistry
B.N.S., Tufts University; M.S., Middlebury College; Ph.D., University of North Carolina
- JAMES R. JOSE (1970)Political Science....Dean of the College
B.A., Mount Union College; M.A., Ph.D., American University
- JACK S. McCRARY (1969)Sociology and Anthropology
B.A., M.A., Southern Methodist University; Ph.D., Washington University
- WALTER G. McIVER (1946) Music
Mus.B., Westminster Choir College; A.B., Bucknell University; M.A., New York University
- MAURICE A. MOOK (1969) Sociology and Anthropology
B.A., Allegheny College; M.A., Northwestern University; Ph.D., University of Pennsylvania
- GLEN E. MORGAN (1961) Music
B.M., M.M., Ph.D., Indiana University
- LORING B. PRIEST (1949)History
LITT.B., Rutgers University; M.A., Ph.D., Harvard University
- ROBERT W. RABOLD (1955) Economics
B.A., The Pennsylvania State University; M.A., Ph.D., University of Pittsburgh
- JOHN A. RADSPINNER (1957)*Chemistry
B.S., University of Richmond; M.S., Virginia Polytechnic Institute; D.SC., Carnegie-Mellon University
- FRANCES KNIGHTS SKEATH (1947)Mathematics
A.B., M.A., Bucknell University; D.Ed, Pennsylvania State University

*On Leave Second Semester 1972-73

ASSOCIATE PROFESSORS

- DAVID G. BUSEY (1954) Physical Education.... Director of Athletics
B.S., M.S., University of Illinois
- ROBERT F. FALK (1970) Theatre
B.A., B.D., Drew University; M.A., Ph.D., Wayne State University
- BERNARD P. FLAM (1963) Spanish
A.B., New York University; M.A., Harvard University; Ph.D., University of Wisconsin
- EARNEST D. GIGLIO (1972) Political Science
B.A., Queens College; M.A., The State University of New York at Albany; Ph.D., Syracuse University
- DAN D. GUSTAFSON (1971) English
B.A., Amherst College; M.A., University of California; Ph.D., University of Nebraska
- JOHN G. HANCOCK (1967) Psychology
B.S., M.S., Bucknell University; Ph.D., The Pennsylvania State University
- JOHN G. HOLLENBACK (1952) Business Administration....
B.S., M.B.A., University of Pennsylvania Marshal of the College
- ALDEN G. KELLEY (1966) Biology
B.S., M.S., Iowa State University; Ph.D., Purdue University
- DAVID J. LOOMIS (1967) Psychology
A.B., Lycoming College; M.S., Bucknell University; Ph.D., Syracuse University
- ROBERT J. B. MAPLES (1969) French
A.B., M.A., University of Rochester; Ph.D., Yale University
- ROGER W. OPDAHL (1963) Economics
A.B., Hofstra College; M.A., Columbia University; D.Ed., The Pennsylvania State University
- O. THOMPSON RHODES (1961) Religion
B.S., University of Cincinnati; B.D., Ph.D., Drew University
- LOGAN A. RICHMOND (1954) Accounting
B.S., Lycoming College; M.B.A., New York University; C.P.A. (Pennsylvania)
- MARY LANDON RUSSELL (1936) Music
Mus.B., Susquehanna University Conservatory of Music; M.A., The Pennsylvania State University
- LOUISE R. SCHAEFFER (1962) Education
A.B., Lycoming College; M.A., Bucknell University; D.Ed., The Pennsylvania State University
- JAMES W. SHEAFFER (1949) Music
B.S., Indiana University of Pennsylvania; M.S., University of Pennsylvania
- WILLY SMITH (1966) Physics
B.S.E., The University of the Republic (Uruguay); M.S.E., Ph.D., University of Michigan

ASSISTANT PROFESSORS

- ROBERT B. ANGSTADT (1967)Biology
B.S., Ursinus College; M.S., Ph.D., Cornell University
- VIRGINIA R. ARROYO (1970)Sociology
B.S., M.A., Columbia University
- MYRNA A. BARNES (1959)Library Services
A.B., University of California at Los Angeles; M.S. in L.S., Drexel University
- FRANCIS L. BAYER (1967)English
B.A., St. Mary's College; B.S., M.A., Bowling Green State University
- WILLIAM P. BRITTAIN (1972)Psychology
B.A., M.A., Wichita State University
- CLARENCE W. BURCH (1962)Physical Education
B.S., M.Ed., University of Pittsburgh
- JOHN H. CONRAD (1959)Education
B.S., Mansfield State College; M.A., New York University
- JACK D. DIEHL, JR., (1971)Biology
B.S., M.A., Sam Houston State College; M.S., Ph.D., University of Connecticut
- LYDIA A. DUFOUR (1970)Spanish
B.A., Newcomb College; M.A., Tulane University
- RICHARD W. FELDMANN (1965)*Mathematics
A.B., M.A., University of Buffalo
- F. CATHARINE FISHER (1968)Library Services
B.A., Susquehanna University
- WILLIAM D. FORD (1972)English
B.A., Occidental College; M.A., M.F.A., University of Iowa
- DAVID A. FRANZ (1970)Chemistry
B.A., Princeton; M.A., The Johns Hopkins University; Ph.D., University of Virginia
- CHARLES L. GETCHELL (1967)Mathematics
B.S., University of Massachusetts; M.A., Harvard University
- ROGER A. GOODMAN (1971)Education
B.A., Dickinson College; M.Ed., Temple University
- WENRICH H. GREEN (1968)Biology
A.B., Lycoming College; M.S., The Pennsylvania State University
- STEPHEN R. GRIFFITH (1970)Philosophy
A.B., Cornell University; M.A., University of Pittsburgh
- ANTHONY L. GRILLO (1969)Library Services....Librarian
B.S., The Pennsylvania State University; M.S. in L.S., Villanova University
- THOMAS J. HENNINGER (1966)Mathematics
B.S., Wake Forest College; M.A., University of Kansas
- OWEN F. HERRING (1965)Philosophy
B.A., Wake Forest College

*On Leave Second Semester 1972-73

- OCTAVIA HUGHES (1971) Art
B.A., Radcliffe College; M.A., Columbia University
- RICHARD A. HUGHES (1970) Religion
B.A., Indiana Central College; S.T.B., Ph.D., Boston University
- LAWRENCE F. HURR (1969) Psychology
A.B., Lycoming College; M.A., McGill University
- M. RAYMOND JAMISON (1962) Physics and Education
B.S., Ursinus College; M.S., Bucknell University
- EMILY R. JENSEN (1969) English
B.A., Jamestown College; M.A., University of Denver; Ph.D., The Pennsylvania State University
- FORREST E. KEESBURY (1970) Education
B.S., Defiance College; M.A., Bowling Green State University; D.Ed., Lehigh University
- ELIZABETH H. KING (1958) Business Administration
B.S., Geneva College; M.Ed., The Pennsylvania State University
- ROBERT H. LARSON (1969) History
B.A., The Citadel; M.A., University of Virginia
- DAVID A. LUTZ (1971) Religion
B.A., Bucknell University; B.D., Colgate-Rochester Divinity School; Ph.D., Drew University
- PAUL A. MacKENZIE (1970) German
A.B., A.M., Ph.D., Boston University
- GERTRUDE B. MADDEN (1958) English
A.B., University of Pennsylvania; M.A., Bucknell University
- ROBERT F. MALCOLM (1970) Business Administration
B.B.A., M.B.A., Eastern Michigan University
- LYNDON J. MAYERS (1970) Biology
B.S., University of Rhode Island; M.S., Ph.D., University of Maine
- DONNA R. MILLER (1960) Physical Education
B.S., Lock Haven State College; M.Ed., The Pennsylvania State University
- L. PAUL NEUFER (1960) Religion
 Director of Religious Activities
A.B., Dickinson College; S.T.B., S.T.M., Boston University
- RICHARD M. O'BRIEN (1971) Psychology
A.B., Franklin College; M.A., Ph.D., West Virginia University
- JOHN F. PIPER, JR. (1969) History
A.B., Lafayette College; B.D., Yale University; Ph.D., Duke University
- RANDY M. RASSOUL (1972) French
B.A., University of Toledo; M.A., University of Michigan
- DAVID J. RIFE (1970) English
B.A., University of Florida; M.A., Southern Illinois University
- MICHAEL G. ROSKIN (1972) Political Science
A.B., University of California at Berkley; M.A., University of California at Los Angeles; Ph.D., American University

- DAVID E. SAWYER (1970) English
B.A., St. Olaf College; M.A., Ph.D., University of Nebraska
- FERDINAND D. SCHOEMAN (1972) Philosophy
B.A., University of Rochester; Ph.D., Brandeis University
- K. BRUCE SHERBINE (1969) Biology
A.B., Gettysburg College; M.S., Temple University; Ph.D., The Pennsylvania State University
- ROGER D. SHIPLEY (1967) Art
B.A., Otterbein College; M.F.A., Cranbrook Academy of Art
- ANDREW B. TURNER (1969) Chemistry
 Assistant Marshal of the College
A.B., Franklin and Marshall College; M.S., Bucknell University; Ph.D., University of Virginia
- SALLY F. VARGO (1953) Physical Education
B.S., The Pennsylvania State University; M.S., Bucknell University
- CHARLES E. WEYANT (1971) Library Services
B.A., American University; M.S., Simmons College
- JOHN M. WHELAN, JR. (1971) Philosophy
B.A., University of Notre Dame
- BUDD F. WHITEHILL (1957) Physical Education
B.S., Lock Haven State College; M.Ed., The Pennsylvania State University
- LEO K. WINSTON (1964) Russian
B.A., Sir George Williams University; M.A., Universite de Montreal

INSTRUCTORS

- MAX E. AMEIGH (1969) Art
B.S., Lycoming College; M.Ed., The Pennsylvania State University
- GARY DARTT (1969) Theatre
B.S., Augustana College
- WILLIAM F. HUBER (1969) Accounting
B.S., M.B.A., The Pennsylvania State University
- DENNIS KNEPP (1969) Political Science
A.B., Lycoming College; M.A., University of West Virginia
- ROBERT L. LAMBERT (1969) Mathematics
A.B., Lycoming College; M.A., Bucknell University
- NELSON PHILLIPS (1959) Physical Education
B.S., Springfield College
- JULIA M. RUX (1970) Sociology
B.A., Hanover College; M.A., University of Wisconsin
- KENNETH R. SAUSMAN (1969) Mathematics
A.B., Susquehanna University; M.S., Miami University, Ohio
- R. SCOTT STAUFFER (1970) Business Administration
B.S., Wilkes College, M.B.A., University of Miami
- JANICE M. STEBBINS Biology
A.B., Lycoming College; M.S., The Pennsylvania State University

LECTURER

DON M. LARRABEE II (1972) Lecturer in Law
A.B., Franklin and Marshall; LL.B., Fordham University

PART-TIME INSTRUCTORS

NANCY MARIE-FRANCOISE LeROUX French
Diplome Universitaire d'Etudes Litteraries

KATHERINE L. FETTER Art
B.S., Kutztown State College

JEAN HORN Mathematics
M.S., The Pennsylvania State University

HERBERT G. KANE Business Administration
B.S., Lycoming College

DENIS MALIN Theatre
B.A., Lafayette; B.A., Montclair State College; M.A., The Pennsylvania State University

ADMINISTRATIVE ASSISTANTS

LOUISE BANKS Secretary to the Librarian

BETTY BECK Bookstore Assistant

VIRGINIA BELL A. V. Co-ordinator

EMILY C. BIICHLE Secretary to the Treasurer

RUSSELL BLOODGOOD Manager of Food Service

JEAN BREON Secretary to Coaches

PAULINE F. BRUNGARD Student Loan Coordinator
B.S., Lycoming College

SHIRLEY CAMPBELL Assistant in the Treasurer's Office

ELIZABETH COWLES Career Development Secretary

MARGARET DEWAR Secretary in the Admissions Office

HELEN H. EARNEST Secretary in Student Services Office

ROBERT L. EDDINGER Director of Buildings and Grounds

JUNE L. EVANS Secretary in the Education Office

S. JEAN GAIR Faculty Secretary

ANNE GIBBON Faculty Secretary

KITTY GLOSSER Secretary in the Admissions Office

ESTHER GOOD Supervisor of Housekeeping

YVONNE HAGENBUCH Faculty Secretary

RALPH HELLAN Computer Operations Programmer

HELEN C. HELLER . . . Secretary - Public Relations and Publications Offices

PHYLLIS HOLMES Secretary to the President

DEE HORN Cashier-Bookkeeper

MINNIE OLA HOUSEKNECHT Library Assistant

NAOMI KEPNER Switchboard Operator

AUDREY LIBBY Library Assistant
EDITH LIPFERT Library Assistant
LINDA McCULLOCH Secretary to Buildings and Grounds Director
VIVIAN MEIKRANTZ Secretary to the Dean of the College
JOYCE MILLER Secretary to Coordinator of Computer Services
PATRICIA MILLER Secretary to the Registrar
ANDREW MOYER Coordinator of Computer Services
MARILYN MULLINGS Faculty Secretary
PHYLLIS B. MYERS Secretary in the Registrar's Office
BETTY PARIS Secretary to Director of Development

A.B., Lycoming College

DORIS E. REICHENBACH Secretary to the Director of Alumni Affairs
MARIAN L. RUBENDALL Secretary to the Dean of Student Services
SHARON SCARFO Secretary in the Department of Athletics
RUTH R. SCHULTZ Faculty Secretary
GAIL SHOOK Library Assistant
DOROTHY STREETER Manager of the Bookstore
BETTY JUNE SWANGER Accountant and Office Manager
VIRGINIA VAN HORN Library Assistant
IRENE VINCENT Library Assistant
JUNE WAGNER Faculty Secretary
MARGARET WISE Secretary in the Admissions Office

MEDICAL STAFF

FREDERIC C. LECHNER, M.D. College Physician
B.S., Franklin and Marshall College; M.D., Jefferson Medical College
ROBERT S. YASUI, M.D. College Surgeon
M.D., Temple University
RUTH J. BURKET, R.N. College Nurse
Hamot Hospital School of Nursing
EMALINE W. DEIBERT, R.N. College Nurse
Williamsport Hospital School of Nursing



Alumni

THE ALUMNI ASSOCIATION

The Alumni Association of Lycoming College has a membership of over seven thousand men and women. It is governed by an Executive Board of five officers and twenty-one members nominated and elected by the membership. The senior class, the student body, and the last graduating class also have representatives on the Executive Board. It annually elects a member to the Board of Directors of the College for a three-year term. The Director of Alumni Affairs directs the activities of the Alumni Office.

The Alumni Association of Lycoming College has two objectives: to promote the interests of the college, and to foster among its members' loyalty and devotion to their alma mater. Any person who has successfully completed one year of study at Lycoming College or Williamsport Dickinson Junior College and is not enrolled as a full-time student at Lycoming College, and all former Williamsport Dickinson Seminary students are Association members.

Acting as the representative of alumni on the campus, and working also with undergraduates, the Alumni office aids in keeping alumni informed and interested in the program, growth, and activities of the college through regular publications mailed to all Alumni on record. Arrangements for Homecoming, Alumni Day, Class Reunions, club meetings and similar activities are coordinated through this office. The Alumni Association promotes group travel programs, supplies back-year class rings, and sells water colors of the campus and alumni chairs.

Through The Lycoming College Fund, the Alumni Office is closely associated with the development program of the college. Lycoming College holds Class A, B, and C memberships in the American Alumni Council. Communications to the Alumni Association should be addressed to the Alumni Office.

The membership of the 1972-73 Alumni Executive Board is as follows:

President - Mr. Daniel Fultz '57 – Wells College, Aurora, New York 13026

Vice-President - Mr. Jack Parsons '62 – 460 Irvington Road, Drexel Hill, Pa. 19026

Corresponding Secretary - Mrs. Robert Glunk (Claramae Cohick '59)
Salladasburg, Pa. 17766

Recording Secretary - Mrs. Rolland B. Zeisloft (Ann Bennett '63) 1305
Weldon Street, Montoursville, Pa. 17754

Treasurer - Mr. Eugene Landon '57 – R.D.#1, Montoursville, Pa. 17754

Last Retiring President - Mr. Raymond A. Miller '58 – 1514 Elmira Street,
Williamsport, Pa.

Alumni

Term Expires June 1973

- Mr. Michael Burr '64 – 251 W. DeKalb Pike, Apt. A-401, King of Prussia, Pa. 19406
Mrs. Henry Codd (Patricia Jennings '60) – 243 Upland Road, Williamsport, Pa. 17701
Mr. R. Stephen Hockley '66 – 341 Jordan Avenue, Montoursville, Pa. 17754
Mr. John Hollenback '47 – 721 Sixth Avenue, Williamsport, Pa. 17701
Miss Doris Heller '54 – 716 Grampian Boulevard, Williamsport, Pa. 17701
Mr. Rodney Bailey '67 – 1310 Mansel Avenue, Williamsport, Pa. 17701
Mrs. Thomas Huzey (Bonnie Burns '68) – 916 Walnut Street, Montoursville, Pa. 17754

Term Expires June 1974

- Mrs. Carolyn S. Durrwachter '32 & '62 – 246 Lincoln Avenue, Williamsport, Pa. 17701
Mr. David Y. Brouse '47 – 830 St. David Road, Williamsport, Pa. 17701
Mr. Melvin Campbell '70 – 3400 Eastern Blvd., Village East. Apt. K6, York, Pa. 17403
Mr. John Eidam '66 – 226 Maple Avenue, Kingston, Pa. 18704
Mr. Stephen Jusick '64 – 82 Stonicker Drive, Trenton, N.J. 08638
Mr. George Nichols '59 – R.D.#2, Newton Road, Clarks Summit, Pa. 18411
Mr. Donald Nolder '66 – 41 W. Houston Avenue, Montgomery, Pa. 17752

Term Expires June 1975

- Dr. James Hoffman '63 – 2300 24th Road So., Apt. 725, Arlington, Va. 22206
Mr. William Worobec '70 – Oak Ridge Place, Williamsport, Pa. 17701
Mr. Dennis Kitzman '59 – 174 Garnsey Road, Pittsford, New York 14544
Mr. John Joe '59 – 360 East Drive, Coatesville, Pa. 19320
Col. Marshall Sanders '36 – 6925 River Oaks Drive, McLean, Va. 22101
Mrs. Earl Kirk (Martha Hickerson '62) – 1662 Carlyle Drive, Apt. 10J, Crofton, Md. 21113
Mrs. David Hultsch (Lucinda Earle '65) – 1330 Linn Street, State College, Pa. 16801

Alumni Representatives to Lycoming College Board of Trustees

- (1973) Dr. Walter Dunston '57 – 5346 Green St., P.O. Box 4813, Philadelphia, Pa. 19144
(1974) Dr. Willis W. Willard, III '58 – 76 Boxwood Drive, Laurel Woods, Hershey, Pa. 17033
(1975) Mr. Harold H. Shreckengast, Jr. '50 – 600 Cheltena Ave., Jenkintown, Pa. 19046

ACADEMIC CALENDAR 1972-73

<p style="text-align: center;">SEPTEMBER</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p>							<p style="text-align: center;">OCTOBER</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p>						
<p style="text-align: center;">NOVEMBER</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30</p>							<p style="text-align: center;">DECEMBER</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>²⁴ 25 26 27 28 29 30</p> <p>31</p>						
<p style="text-align: center;">JANUARY</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30 31</p>							<p style="text-align: center;">FEBRUARY</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28</p>						
<p style="text-align: center;">MARCH</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30 31</p>							<p style="text-align: center;">APRIL</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30</p>						
<p style="text-align: center;">MAY</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30 31</p>							<p style="text-align: center;">JUNE</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p>						
<p style="text-align: center;">JULY</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p>							<p style="text-align: center;">AUGUST</p> <p><i>Sun Mon Tues Wed Thur Fri Sat</i></p> <p style="text-align: right;">1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30 31</p>						

ACADEMIC CALENDAR 1972 - '73

FALL SEMESTER

September	4 – <i>Monday</i> 6 – <i>Wednesday</i>	Dormitories open 2 p.m. Classes begin.
November	21 – <i>Tuesday</i> 27 – <i>Monday</i>	Thanksgiving recess begins 8 p.m. Classes resume 8 a.m.
December	22 – <i>Friday</i>	Semester ends 5 p.m.

SPRING SEMESTER

January	7 – <i>Sunday</i> 8 – <i>Monday</i>	Dormitories open 2 p.m. Classes begin.
March	2 – <i>Friday</i> 12 – <i>Monday</i>	Spring recess begins 5 p.m. Classes resume 8 a.m.
April	20 – <i>Good Friday</i> 27 – <i>Friday</i>	Afternoon classes suspended. Semester ends 5 p.m.
May	6 – <i>Sunday</i>	Commencement.

MAY TERM (4 Weeks)

May	6 – <i>Sunday</i> 7 – <i>Monday</i>	Dormitories open 2 p.m. Classes begin.
June	1 – <i>Friday</i>	Term ends.

SUMMER TERM (6 Weeks)

June	10 – <i>Sunday</i> 11 – <i>Monday</i>	Dormitories Open 2 p.m. Classes begin.
July	20 – <i>Friday</i>	Term ends.

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COMMUNICATION WITH THE COLLEGE

This document contains pertinent information about the college, its philosophy, programs, policies, regulations, and offerings. All students and prospective students are urged to read it carefully and completely.

Inquiries of a specific nature should be addressed as follows:

Director of Admissions:

Admission to the freshman class.

Admission with advanced standing.

Re-entry of students to Lycoming College.

Requests for catalogs.

Treasurer:

Payment of college bills.

Inquiries concerning expenses.

Director of Student Aid:

Scholarships and loan funds for students in college.

Financial assistance for entering students.

Dean of the College:

Information about faculty and faculty activities.

Academic work of students in college.

Dean of Student Services:

Questions or problems concerning student's health.

Residence and campus regulations.

Registrar:

Requests for transcripts.

Notices of withdrawal.

Career Development Center:

Opportunities for self-help.

Employment while in college.

Employment upon graduation.

Director of Development:

Gifts or bequests.

Director of Alumni Affairs

Director of Public Relations

Address: LYCOMING COLLEGE, Williamsport, Pennsylvania 17701

Telephone: 326-1951 Area Code 717



ALL OF THE PROVISIONS IN THIS CATALOG ARE EFFECTIVE JUNE 1, 1972

Lycoming College reserves the right to make any necessary changes in the academic calendar, charges, courses, or any other section of this catalog.



Williamsport, Pennsylvania

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